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Smartglasses Bomanlon

Dossier prodotto: gamma, schede tecniche, comandi, conformità UE e documentazione originale del produttore in un unico file.



BV-01
Lumeo AI



BS-01
Apex Sports



BL-01
Luxury



BL-02
Infinity



BL-03
Unify



BL-05
Leisure



BL-04
Blade

Indice →

Come consultarlo. Ogni voce dell'indice, ogni scheda modello e ogni riferimento «Allegato» è cliccabile. Usa il pannello dei segnalibri del lettore PDF per saltare direttamente a un modello o a un documento originale.

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La gamma

7 modelli · 2 famiglie

Due famiglie: gli **Smart Video Glasses AI** con fotocamera, assistente AI e traduzione in tempo reale, e gli **Smart Audio Glasses** con audio e chiamate a mani libere, in versioni da sole, polarizzate, fotocromatiche e sportive.



BV-01 VIDEO AI

Lumeo AI

Occhiali smart con camera HD, audio e AI, in una montatura di tutti i giorni.

Scheda completa · pag. 4 →



BS-01 VIDEO AI

Apex Sports

Occhiali sportivi con fotocamera e assistente AI: riprendi, traduci e ascolta in movimento.

Scheda completa · pag. 6 →



BL-01 AUDIO

Luxury

Occhiali da sole smart in stile aviator, con audio e chiamate.

Scheda completa · pag. 8 →



BL-02 AUDIO

Infinity

Occhiali polarizzati con audio open-ear, per chi guida e per l'acqua.

Scheda completa · pag. 10 →



BL-03 AUDIO

Unify

Lenti fotocromatiche e audio: occhiali normali al chiuso, da sole all'aperto.

Scheda completa · pag. 12 →



BL-05 AUDIO

Leisure

Estetica business per una comunicazione professionale: discreti in ogni riunione.

Scheda completa · pag. 14 →



BL-04 AUDIO

Blade

Avvolgenti da sport con lenti full-wrap antivento e ottica polarizzata.

Scheda completa · pag. 16 →

BV-01 VIDEO AI

Lumeo AI Video Glasses

Occhiali smart con camera HD, audio e AI, in una montatura di tutti i giorni.

Ideale per: Lavoro, viaggi e vita quotidiana: riunioni, chiamate, traduzione e foto a mani libere.



8 MP	7 h	4 h	2 GB
camera ultra-wide	musica	conversazione	memoria

Caratteristiche

- Foto e video in prima persona, a mani libere.
- Assistente AI: supporta ChatGPT.
- Traduzione in tempo reale di voce e cartelli; spiega ciò che vedi.
- Registrazione istantanea di riunioni e chiamate, senza telefono.
- Due tasti fisici (accensione/pairing, video, foto) più area touch sull'asta destra.
- Audio direzionale per musica e chiamate in vivavoce.
- Rilevamento indossamento: se togli gli occhiali la musica va in pausa.
- Controllo da app con funzioni rapide.

Dati tecnici

Fotocamera	8 MP, HD ultra-wide
Assistente AI	ChatGPT; attivazione con «Hey, Cyan»; riconoscimento immagini
Memoria	2 GB
Batteria	290 mAh, ricarica completa in 2 h
Autonomia	7 h musica · 4 h conversazione
Resistenza all'acqua	IPX4
Montatura	TR90 (materiale leggero e flessibile)
Lenti	Disponibile con lenti fotocromatiche
Ricarica	Cavo magnetico originale
Connettività	Bluetooth (BR/EDR e BLE) · Wi-Fi 2,4 GHz 802.11 b/g/n
Alimentazione	5 V ⎓ 1 A (rapporti CCTI)
App	HeyCyan (Google Play, App Store)

Connessione con l'app «HeyCyan»

1. Attiva il Bluetooth dello smartphone.
2. Accendi gli occhiali.
3. Apri l'app «HeyCyan» (al primo utilizzo serve un account), tocca «Connect Device» e seleziona «Bomanlon BV-01».
4. Conferma la richiesta di associazione Bluetooth.

App disponibile su Google Play e App Store, o dal codice QR sul manuale. Riconnessione automatica al dispositivo già associato.

Componenti e documenti

Pulsante fisico anteriore, pulsante fisico posteriore, fotocamera, luce flash, area touch, spia di alimentazione, porta di ricarica.

Manuale d'uso	Allegato A6 · pag. 33
Scheda tecnica	Allegato A1 · pag. 24
Conformità	Allegato A3 · pag. 28 Allegato A4 · pag. 30

Comandi · BV-01 Lumeo AI

BASE	
Accensione	Tieni premuto il pulsante anteriore per 2 secondi (suono di accensione)
Spegnimento	Tieni premuto il pulsante anteriore per 5 secondi (suono di spegnimento)
CONNESSIONE	
Associazione	Tramite app HeyCyan → «Connect Device» → «Bomanlon BV-01»
Riconnessione	Automatica allo smartphone già associato, nel raggio Bluetooth
MUSICA	
Play / pausa	Doppio tocco sull'area touch destra
Brano precedente	Triplo tocco sull'area touch destra
Brano successivo	Tieni premuta l'area touch destra
Volume +	Scorri in avanti sull'area touch destra (un livello per gesto)
Volume –	Scorri all'indietro sull'area touch destra
Pausa automatica	Togliendo gli occhiali la musica va in pausa
CHIAMATE	
Rispondi	Premi una volta il pulsante anteriore
Rifiuta	Premi due volte il pulsante anteriore
Termina	Premi il pulsante anteriore durante la chiamata
FOTO E VIDEO	
Scatta foto	Premi una volta il pulsante anteriore
Avvia video	Premi due volte il pulsante anteriore
Ferma e salva video	Premi una volta il pulsante anteriore durante la registrazione
Avvia registrazione audio	Tieni premuto il pulsante posteriore
Ferma e salva audio	Premi una volta il pulsante posteriore durante la registrazione
ASSISTENTE	
Assistente AI	Premi una volta il pulsante posteriore, oppure di' «Hey, Cyan»
Riconoscimento immagini AI	Premi due volte il pulsante posteriore

Spegnimento automatico dopo 5 minuti senza connessione Bluetooth. Avvertenze a pag. 21.

BS-01 VIDEO AI

Apex Sports Camera AI Glasses

Occhiali sportivi con fotocamera e assistente AI: riprendi, traduci e ascolta in movimento.

Ideale per: Ogni sport outdoor, con audio e chiamate a mani libere.



8 MP
Sony IMX219

50 g
TR90 + ABS

IP64
polvere e spruzzi

4 GB
memoria

Caratteristiche

- ChatGPT integrato: domande in qualsiasi momento.
- Assistente vocale con riconoscimento di oggetti e punti di riferimento.
- Fotocamera 8 MP: 3280×2464 a 30 fps, chip di elaborazione V821.
- Traduzione in tempo reale di voce e cartelli; spiega ciò che vedi.
- Due tasti fisici (accensione/pairing, video, foto) più area touch.
- Audio e chiamate a mani libere.
- Controllo da app con funzioni rapide.

Dati tecnici

Fotocamera	8 MP Sony IMX219 · 3280×2464 a 30 fps · chip V821
Assistente AI	ChatGPT; riconoscimento oggetti e punti di riferimento
Memoria	4 GB
Batteria	260 mAh, ricarica in 2 h
Video continuo	25 minuti
Resistenza	IP64 (scheda)
Peso e montatura	50 g · TR90 + ABS
Lenti	Blu o nere
Ricarica	Magnetica; luce rossa in carica, blu a carica completa
App	Da Echo

Connessione con l'app «Da Echo»

1. Attiva il Bluetooth del telefono.
2. Accendi gli occhiali.
3. Apri l'app «Da Echo» (al primo utilizzo serve un account), tocca «Connessione dispositivi», seleziona «Bomanlon BS-01» e tocca «Connetti».

App disponibile su Google Play e App Store, o dal codice QR sul manuale. Riconnessione automatica al dispositivo già associato.

Componenti e documenti

Fotocamera, pulsanti fisici sinistro e destro, area touch, altoparlante, microfono, spia luminosa, spia di stato, porta di ricarica.

Manuale d'uso	Allegato A7 · pag. 35
Scheda tecnica	Allegato A1 · pag. 24
Conformità	Allegato A3 · pag. 28 Allegato A4 · pag. 30

Comandi · BS-01 Apex Sports

BASE	
Accensione	Tieni premuto il pulsante destro per 2 secondi
Spegnimento	Tieni premuto il pulsante destro per 5 secondi
CONNESSIONE	
Associazione	Tramite app Da Echo → «Connessione dispositivi» → «Bomanlon BS-01» → «Connetti»
Riconnessione	Automatica ai dispositivi già associati, nel raggio di connessione
Cancella associazioni	Tieni premuto il pulsante sinistro per 7 secondi
MUSICA	
Play / pausa	Doppio tocco sull'area touch
Brano precedente	Triplo tocco sull'area touch
Brano successivo	Tieni premuta l'area touch per 2 secondi
Volume +	Scorri in avanti sull'area touch destra
Volume –	Scorri all'indietro sull'area touch destra
CHIAMATE	
Rispondi / termina	Premi una volta il pulsante sinistro o destro
Rifiuta	Tieni premuto il pulsante sinistro o destro per 2 secondi
FOTO E VIDEO	
Scatta foto	Premi una volta il pulsante destro (non durante chiamata o registrazione)
Avvia video	Premi due volte il pulsante destro (non durante chiamata o riproduzione)
Ferma e salva video	Premi una volta il pulsante destro durante la registrazione
Avvia registrazione audio	Premi due volte il pulsante sinistro (non durante chiamata o riproduzione)
Ferma e salva audio	Premi una volta il pulsante sinistro durante la registrazione
ASSISTENTE	
Assistente AI	Premi una volta il pulsante sinistro
Assistente vocale del telefono	Tieni premuto il pulsante sinistro per 2 secondi
RICARICA	
Spia di ricarica	Rossa fissa in carica, blu a carica completa
RIPRISTINO	
Ripristino di fabbrica	Tieni premuto il pulsante destro 10 secondi: dopo il segnale di spegnimento, rilascia quando senti di nuovo il segnale di accensione

Spegnimento automatico dopo 5 minuti senza connessione Bluetooth. Avvertenze a pag. 21.

BL-01 AUDIO

Bomanlon Luxury

Occhiali da sole smart in stile aviator, con audio e chiamate.

Ideale per: Arrampicata, pesca, ciclismo, escursionismo e guida.



10 h	6 h	1,5 h	UV
musica	conversazione	ricarica	protezione totale

Caratteristiche

- Design classico Bomanlon, elegante e leggero per tutto il giorno.
- Audio e chiamate a mani libere.
- Audio HD a 360°.
- Comandi touch sull'asta per musica e chiamate.
- Assistente vocale: tocca per attivare Siri e ascoltare la navigazione.
- Protezione UV totale, riduce l'affaticamento visivo.

Dati tecnici

Autonomia	10 h musica · 6 h conversazione
Ricarica	1,5 h, cavo magnetico
Resistenza all'acqua	IPX4
Lenti	Da sole, protezione UV totale
Stile	Aviator
Comandi	Touch su asta sinistra e destra
App	Nessuna: collegamento Bluetooth diretto

Connessione Bluetooth

1. Accendi gli occhiali: le due aste si associano tra loro.
2. Attiva il Bluetooth del telefono, cerca il nome del modello e collegati.

Non serve alcuna app. Riconnessione automatica al dispositivo già associato.

Componenti e documenti

Tasto touch sinistro, tasto touch destro, poli di ricarica magnetica.

Manuale d'uso	Allegato A8 · pag. 37
Scheda tecnica	Allegato A2 · pag. 25
Conformità	Allegato A3 · pag. 28 Allegato A4 · pag. 30

Comandi · BL-01 Luxury

BASE	
Accensione	Tieni premuti insieme i tasti touch sinistro e destro per 3 secondi
Spegnimento	Tieni premuto il tasto touch sinistro o destro per 5 secondi
CONNESSIONE	
Associazione	Le due aste si associano tra loro all'accensione; attiva il Bluetooth del telefono e cerca il nome del modello
Riconnessione	Automatica al dispositivo già associato
MUSICA	
Play / pausa	Doppio tocco sul touch sinistro o destro
Brano precedente	Triplo tocco sul touch sinistro
Brano successivo	Triplo tocco sul touch destro
Volume –	Quattro tocchi sul touch sinistro (durante la musica)
Volume +	Quattro tocchi sul touch destro (durante la musica)
CHIAMATE	
Rispondi / termina	Doppio tocco sul touch sinistro o destro
Rifiuta	Tieni premuto il touch sinistro o destro per 2 secondi
ASSISTENTE	
Assistente vocale del telefono	Tieni premuto il touch sinistro o destro per 2 secondi (Siri)
RICARICA	
Ricarica	Cavo magnetico sui poli sinistro e destro; gli occhiali si spengono durante la ricarica
Spia di ricarica	Si spegne a carica completa e si riaccende quando scolleghi il cavo

Spegnimento automatico dopo 5 minuti senza connessione Bluetooth. Avvertenze a pag. 21.

BL-02 AUDIO

Bomanlon Infinity

Occhiali polarizzati con audio open-ear, per chi guida e per l'acqua.

Ideale per: Uso all'aperto: lenti polarizzate per una visione nitida.



10 h
musica

IPX4
acqua

UV
polarizzate

Open-ear
audio aperto

Caratteristiche

- Lenti polarizzate professionali: protezione UV totale e massima nitidezza.
- Audio privato open-ear.
- Bluetooth istantaneo: abbinamento in pochi secondi.
- Chiamate in vivavoce.
- Touch sull'asta per Siri e navigazione.
- Montatura in metallo a memoria di forma, si adatta al viso.
- Leggeri, IPX4.

Dati tecnici

Autonomia	10 h musica · conversazione n.d.
Resistenza all'acqua	IPX4
Lenti	Polarizzate, protezione UV totale
Montatura	Metallo a memoria di forma; naselli in silicone anti-ossidazione
Audio	Open-ear
Comandi	Touch su asta sinistra e destra
App	Nessuna: collegamento Bluetooth diretto

Connessione Bluetooth

1. Accendi gli occhiali: le due aste si associano tra loro.
2. Attiva il Bluetooth del telefono, cerca il nome del modello e collegati.

Non serve alcuna app. Riconnessione automatica al dispositivo già associato.

Componenti e documenti

Tasto touch sinistro, tasto touch destro, poli di ricarica magnetica.

Manuale d'uso	Allegato A8 · pag. 37
Scheda tecnica	Allegato A2 · pag. 25
Conformità	Allegato A3 · pag. 28 Allegato A4 · pag. 30

Comandi · BL-02 Infinity

BASE	
Accensione	Tieni premuti insieme i tasti touch sinistro e destro per 3 secondi
Spegnimento	Tieni premuto il tasto touch sinistro o destro per 5 secondi
CONNESSIONE	
Associazione	Le due aste si associano tra loro all'accensione; attiva il Bluetooth del telefono e cerca il nome del modello
Riconnessione	Automatica al dispositivo già associato
MUSICA	
Play / pausa	Doppio tocco sul touch sinistro o destro
Brano precedente	Triplo tocco sul touch sinistro
Brano successivo	Triplo tocco sul touch destro
Volume –	Quattro tocchi sul touch sinistro (durante la musica)
Volume +	Quattro tocchi sul touch destro (durante la musica)
CHIAMATE	
Rispondi / termina	Doppio tocco sul touch sinistro o destro
Rifiuta	Tieni premuto il touch sinistro o destro per 2 secondi
ASSISTENTE	
Assistente vocale del telefono	Tieni premuto il touch sinistro o destro per 2 secondi (Siri)
RICARICA	
Ricarica	Cavo magnetico sui poli sinistro e destro; gli occhiali si spengono durante la ricarica
Spia di ricarica	Si spegne a carica completa e si riaccende quando scolleghi il cavo

Spegnimento automatico dopo 5 minuti senza connessione Bluetooth. Avvertenze a pag. 21.

BL-03 AUDIO

Unify Smart Audio Glasses

Lenti fotocromatiche e audio: occhiali normali al chiuso, da sole all'aperto.

Ideale per: Business & Office Series: ogni spostamento di lavoro.



10 h
musica

Pieghevole
metallo a memoria

Audio
chiamate e navigazione

Leggeri
tutto il giorno

Caratteristiche

- Visione adattiva: le lenti passano da trasparenti a scure in base alla luce.
- Doppio uso: occhiali normali al chiuso, da sole all'aperto.
- Audio all-in-one per chiamate in vivavoce, musica e navigazione.
- Montatura pieghevole in metallo a memoria, compatta e leggera.

Dati tecnici

Serie	Business & Office
Autonomia	10 h musica · conversazione n.d.
Resistenza all'acqua	IPX4
Lenti	Fotocromatiche
Montatura	Pieghevole, metallo a memoria di forma
Comandi	Touch su asta sinistra e destra
App	Nessuna: collegamento Bluetooth diretto

Connessione Bluetooth

1. Accendi gli occhiali: le due aste si associano tra loro.
2. Attiva il Bluetooth del telefono, cerca il nome del modello e collegati.

Non serve alcuna app. Riconnessione automatica al dispositivo già associato.

Componenti e documenti

Tasto touch sinistro, tasto touch destro, poli di ricarica magnetica.

Manuale d'uso	Allegato A8 · pag. 37
Scheda tecnica	Allegato A2 · pag. 25
Conformità	Allegato A3 · pag. 28 Allegato A4 · pag. 30

Comandi · BL-03 Unify

BASE	
Accensione	Tieni premuti insieme i tasti touch sinistro e destro per 3 secondi
Spegnimento	Tieni premuto il tasto touch sinistro o destro per 5 secondi
CONNESSIONE	
Associazione	Le due aste si associano tra loro all'accensione; attiva il Bluetooth del telefono e cerca il nome del modello
Riconnessione	Automatica al dispositivo già associato
MUSICA	
Play / pausa	Doppio tocco sul touch sinistro o destro
Brano precedente	Triplo tocco sul touch sinistro
Brano successivo	Triplo tocco sul touch destro
Volume –	Quattro tocchi sul touch sinistro (durante la musica)
Volume +	Quattro tocchi sul touch destro (durante la musica)
CHIAMATE	
Rispondi / termina	Doppio tocco sul touch sinistro o destro
Rifiuta	Tieni premuto il touch sinistro o destro per 2 secondi
ASSISTENTE	
Assistente vocale del telefono	Tieni premuto il touch sinistro o destro per 2 secondi (Siri)
RICARICA	
Ricarica	Cavo magnetico sui poli sinistro e destro; gli occhiali si spengono durante la ricarica
Spia di ricarica	Si spegne a carica completa e si riaccende quando scolleghi il cavo

Spegnimento automatico dopo 5 minuti senza connessione Bluetooth. Avvertenze a pag. 21.

BL-05 AUDIO

Bomanlon Leisure

Estetica business per una comunicazione professionale: discreti in ogni riunione.

Ideale per: Professionisti, uffici e viaggi di lavoro (Business & Office Series).



10 h	6 h	1,5 h	IPX4
musica	conversazione	ricarica	acqua

Caratteristiche

- Acetato nero testurizzato e aste sottili, discreti in ogni contesto di lavoro.
- Tasti fisici e volume a scorrimento, utilizzabili senza guardare.
- Chiamate integrate, senza tirare fuori il telefono.
- Lenti fotocromatiche: trasparenti in ufficio, scure all'aperto, ottica polarizzata HD e protezione UV.
- Ricarica magnetica.
- Touch sull'asta per Siri.

Dati tecnici

Serie	Business & Office
Autonomia	10 h musica · 6 h conversazione
Ricarica	1,5 h, magnetica
Resistenza all'acqua	IPX4
Lenti	Fotocromatiche, polarizzate HD, protezione UV
Montatura	Acetato nero testurizzato
Colore	Nero
Comandi	Pulsanti fisici e aree touch a scorrimento su entrambe le aste
App	Nessuna: Bluetooth «Bomanlon BL-05»

Connessione Bluetooth

1. Accendi gli occhiali: le due aste si associano tra loro.
2. Attiva il Bluetooth del telefono, cerca «Bomanlon BL-05» e collegati.

Non serve alcuna app. Riconnessione automatica al dispositivo già associato.

Componenti e documenti

Pulsante sinistro, pulsante destro, area touch sinistra, area touch destra, poli di ricarica magnetica.

Manuale d'uso	Allegato A10 · pag. 39
Scheda tecnica	Allegato A2 · pag. 25
Conformità	Allegato A3 · pag. 28 Allegato A4 · pag. 30

Comandi · BL-05 Leisure

BASE	
Accensione	Tieni premuti insieme i pulsanti sinistro e destro per 3 secondi
Spegnimento	Tieni premuto il pulsante sinistro o destro per 5 secondi
CONNESSIONE	
Associazione	Le aste si associano all'accensione; cerca «Bomanlon BL-05» nel Bluetooth del telefono
Riconnessione	Automatica al dispositivo già associato
MUSICA	
Play / pausa	Premi una volta il pulsante fisico sinistro o destro
Brano precedente	Premi due volte il pulsante sinistro, oppure scorri all'indietro sull'area touch destra
Brano successivo	Premi due volte il pulsante destro, oppure scorri in avanti sull'area touch destra
Volume +	Scorri in avanti sull'area touch sinistra (bip al massimo)
Volume –	Scorri all'indietro sull'area touch sinistra (bip al minimo)
CHIAMATE	
Rispondi / termina	Tocca l'area touch o premi il pulsante di una delle due aste
Rifiuta	Tieni premuta l'area touch o il pulsante per 3 secondi
ASSISTENTE	
Assistente vocale del telefono	Tre tocchi su una qualsiasi area touch o pulsante
RICARICA	
Ricarica	Cavo magnetico sui poli sinistro e destro; gli occhiali si spengono durante la ricarica
Spia di ricarica	Si spegne a carica completa e si riaccende quando scolleghi il cavo

Spegnimento automatico dopo 5 minuti senza connessione Bluetooth. Avvertenze a pag. 21.

BL-04 AUDIO

Blade Outdoor Audio Glasses

Avvolgenti da sport con lenti full-wrap antivento e ottica polarizzata.

Ideale per: Sport ad alta intensità: sci, snowboard, ciclismo, kayak, trail running, arrampicata, pattinaggio.



4	Full-wrap	Polarizzate	10 h
colori	antivento	ottica sport	musica

Caratteristiche

- Lenti oversize full-wrap: copertura totale e protezione dal vento alle alte velocità.
- Ottica polarizzata per ogni attività outdoor.
- Design snello per una vestibilità stabile in movimento.
- Navigazione, musica e chiamate senza interrompere l'attività.
- Audio aperto: resti consapevole dell'ambiente, anche sulle piste.
- Scatto remoto della fotocamera del telefono.

Dati tecnici

Serie	Outdoor & Sports
Colori	Nero, blu, giallo, grigio
Autonomia	n.d. in scheda
Resistenza all'acqua	IPX4
Lenti	Polarizzate, full-wrap oversize
Comandi	Pulsanti sinistro e destro
App	Nessuna: Bluetooth «Bomanlon BL-04»

Connessione Bluetooth

1. Accendi gli occhiali: le due aste si associano tra loro.
2. Attiva il Bluetooth del telefono, cerca «Bomanlon BL-04» e collegati.

Non serve alcuna app. Riconnessione automatica al dispositivo già associato.

Componenti e documenti

Pulsante sinistro, pulsante destro, poli di ricarica magnetica.

Manuale d'uso	Allegato A9 · pag. 38
Scheda tecnica	Allegato A2 · pag. 25
Conformità	Allegato A3 · pag. 28 Allegato A4 · pag. 30

Comandi · BL-04 Blade

BASE	
Accensione	Tieni premuti insieme i pulsanti sinistro e destro per 3 secondi
Spegnimento	Tieni premuto il pulsante sinistro o destro per 5 secondi
CONNESSIONE	
Associazione	Le aste si associano all'accensione; cerca «Bomanlon BL-04» nel Bluetooth del telefono
Riconnessione	Automatica al dispositivo già associato
MUSICA	
Play / pausa	Premi una volta il pulsante sinistro o destro
Brano precedente	Premi due volte il pulsante sinistro
Brano successivo	Premi due volte il pulsante destro
CHIAMATE	
Rispondi / termina	Premi una volta il pulsante sinistro o destro
Rifiuta	Tieni premuto il pulsante sinistro o destro per 2 secondi
FOTO E VIDEO	
Scatto remoto (fotocamera del telefono)	Tieni premuto il pulsante destro per 1 secondo
ASSISTENTE	
Assistente vocale del telefono	Tieni premuto il pulsante sinistro per 2 secondi
RICARICA	
Ricarica	Cavo magnetico sui poli sinistro e destro; gli occhiali si spengono durante la ricarica
Spia di ricarica	Si spegne a carica completa e si riaccende quando scolleghi il cavo

Spegnimento automatico dopo 5 minuti senza connessione Bluetooth. Avvertenze a pag. 21.

Confronto tecnico

«n.d.» = non dichiarato dal produttore

Smart Video Glasses AI

	BV-01 Lumeo AI	BS-01 Apex Sports
IDENTITÀ		
Nome (scheda tecnica)	Lumeo AI Video Glasses	Apex Sports Camera AI Glasses
Serie / famiglia	Smart Video Glasses AI	Smart Video Glasses AI
INTELLIGENZA E IMMAGINE		
Fotocamera	8 MP ultra-wide, foto e video HD	8 MP Sony IMX219, 3280×2464 a 30 fps, chip V821
Assistente AI	ChatGPT · «Hey, Cyan» · riconoscimento immagini	ChatGPT · riconoscimento oggetti e luoghi
Traduzione in tempo reale	Sì, voce e cartelli	Sì, voce e cartelli
Registrazione audio	Sì, riunioni e chiamate	Sì
Memoria interna	2 GB	4 GB
BATTERIA E RESISTENZA		
Musica	7 h	n.d.
Conversazione	4 h	n.d.
Ricarica	2 h · 290 mAh	2 h · 260 mAh · 25 min video continuo
Connettore di ricarica	Cavo magnetico	Cavo magnetico
Resistenza all'acqua	IPX4	IP64
OTTICA E MONTATURA		
Lenti	Disponibile con fotocromatiche	Blu o nere
Montatura	TR90	TR90 + ABS · 50 g
Audio	Direzionale	Integrato, chiamate in vivavoce
USO E COLLEGAMENTO		
Comandi	2 tasti fisici + touch destro	2 tasti fisici + area touch
App	HeyCyan	Da Echo
Ideale per	Lavoro, viaggi e vita quotidiana: riunioni, chiamate, traduzione e foto a mani libere.	Ogni sport outdoor, con audio e chiamate a mani libere.

Smart Audio Glasses

	BL-01 Luxury	BL-02 Infinity	BL-03 Unify	BL-05 Leisure	BL-04 Blade
IDENTITÀ					
Nome (scheda tecnica)	Bomanlon Luxury	Bomanlon Infinity	Unify Smart Audio Glasses	Bomanlon Leisure	Blade Outdoor Audio Glasses
Serie / famiglia	Smart Audio Glasses	Smart Audio Glasses	Business & Office	Business & Office	Outdoor & Sports
INTELLIGENZA E IMMAGINE					
Fotocamera	—	—	—	—	No (scatto remoto della fotocamera del telefono)
Assistente AI	Assistente vocale del telefono (Siri)	Assistente vocale del telefono (Siri)	Assistente vocale del telefono (Siri)	Assistente vocale del telefono (Siri)	Assistente vocale del telefono (Siri)
Traduzione in tempo reale	No	No	No	No	No
Registrazione audio	No	No	No	No	No
Memoria interna	—	—	—	—	—
BATTERIA E RESISTENZA					
Musica	10 h	10 h	10 h	10 h	n.d.
Conversazione	6 h	n.d.	n.d.	6 h	n.d.
Ricarica	1,5 h	n.d.	n.d.	1,5 h	n.d.
Connettore di ricarica	Cavo magnetico	Cavo magnetico	Cavo magnetico	Cavo magnetico	Cavo magnetico
Resistenza all'acqua	IPX4 (da manuale)	IPX4	IPX4 (da manuale)	IPX4	IPX4 (da manuale)
OTTICA E MONTATURA					
Lenti	Da sole, protezione UV totale	Polarizzate, UV totale	Fotocromatiche	Fotocromatiche polarizzate HD, UV	Polarizzate full-wrap antivento
Montatura	Aviator	Metallo a memoria di forma	Metallo a memoria, pieghevole	Acetato nero testurizzato	Sportiva avvolgente, 4 colori
Audio	HD a 360°	Open-ear privato	Integrato, chiamate in vivavoce	Integrato, chiamate in vivavoce	Aperto, consapevolezza dell'ambiente
USO E COLLEGAMENTO					
Comandi	Touch sulle aste	Touch sulle aste	Touch sulle aste	Tasti fisici + touch a scorrimento	Pulsanti sulle aste
App	Nessuna (Bluetooth diretto)	Nessuna (Bluetooth diretto)	Nessuna (Bluetooth diretto)	Nessuna (Bluetooth diretto)	Nessuna (Bluetooth diretto)

	BL-01 Luxury	BL-02 Infinity	BL-03 Unify	BL-05 Leisure	BL-04 Blade
Ideale per	Arrampicata, pesca, ciclismo, escursionismo e guida.	Uso all'aperto: lenti polarizzate per una visione nitida.	Business & Office Series: ogni spostamento di lavoro.	Professionisti, uffici e viaggi di lavoro (Business & Office Series).	Sport ad alta intensità: sci, snowboard, ciclismo, kayak, trail running, arrampicata, pattinaggio.

Avvertenze e uso corretto

dai manuali d'uso

Per tutti i modelli

- Ricarica solo in ambiente completamente asciutto: vietato caricare con bagnato o umidità.
- Usa solo il cavo di ricarica magnetico originale incluso nella confezione.
- Montatura leggera e flessibile: evita cadute e urti; se compaiono crepe o danni, smetti di usarla.
- Resistenza agli spruzzi, non impermeabili: niente pioggia intensa né immersione.
- Batteria integrata non rimovibile: smaltimento in raccolta differenziata (RAEE e pile).
- Spegnimento automatico dopo 5 minuti senza connessione Bluetooth.

Modelli con fotocamera (BV-01, BS-01)

- Il prodotto scatta foto e registra video: rispettare la privacy altrui e le norme locali. Le riprese di nascosto sono vietate.
- Durante una chiamata o una registrazione alcuni comandi di foto e video non sono disponibili (BS-01).

Resistenza all'acqua

Tutti i modelli resistono agli spruzzi ma non sono impermeabili: niente immersione né pioggia intensa. Grado dichiarato: IPX4 per i modelli audio e per il BV-01, IP64 per il BS-01.

Smaltimento

Simbolo del bidone barrato: raccolta differenziata dei RAEE, con possibilità di resa al distributore all'acquisto di un apparecchio equivalente. La batteria è integrata e non rimovibile e va conferita ai centri di raccolta autorizzati.

Conformità UE

RED 2014/53/UE · RoHS 2011/65/UE e 2015/863

Dichiarazione di conformità UE

Fabbricante	Shenzhen Blue Vision Corporation Ltd
Prodotto	Smart Glasses, marchio BOMANLON
Modelli	BV-01, BL-01, BL-02, BL-03, BL-04, BL-05, BS-01
Data	20 giugno 2026
Procedura	Modulo A, Allegato II della Direttiva RED
Documento	Allegato A3 · pag. 28

Norme armonizzate applicate

Sicurezza	EN IEC 62368-1:2024 + A11:2024 Allegato A11 · pag. 40
Salute (EMF)	EN IEC 62311:2020 · EN 50665:2017 Allegato A12 · pag. 120
EMC	ETSI EN 301 489-1 V2.2.3 · ETSI EN 301 489-17 V3.3.1 · EN 55032 · EN 55035 Allegato A13 · pag. 128
Radio	ETSI EN 300 328 V2.2.2 Allegato A14 · pag. 160 Allegato A16 · pag. 238 Allegato A18 · pag. 284
RoHS	Serie IEC 62321 Allegato A21 · pag. 339

Certificati del laboratorio

Laboratorio	Shenzhen CCTI Technology Co., Ltd. (CNAS)
CE RED	CCTI260427107C-R2 · 22/05/2026 Allegato A4 · pag. 30
RoHS 2.0	CCTI260427107R1C-R1 · 07/05/2026 Allegato A5 · pag. 32
Campione	Bomanlon BV-01, con modelli di serie elencati nei certificati

Modelli elencati nei certificati (evidenziati quelli in gamma):

BV-01 BV-02 BV-03 BV-04 BV-05 BV-06 BV-07
BV-08 BV-09 BV-10 **BL-01** **BL-02** **BL-03** **BL-04**
BL-05 BL-06 BL-07 BL-08 BL-09 BL-10 BL-11
BL-12 BL-13 BL-14 BL-15 BL-16 **BS-01** BS-02
BS-03 BS-04 BS-05 BS-06 BS-07 BS-08 BS-09
BS-10

Dati radio misurati (BV-01)

Bluetooth	2402–2480 MHz · e.i.r.p. max 7,72 dBm
Wi-Fi	2412–2472 MHz · 802.11 b/g/n · e.i.r.p. max 8,55 dBm
Antenna	Interna, 0 dBi
Alimentazione	5 V ⎓ 1 A

Elenco degli allegati

documenti originali del produttore e del laboratorio

SCHEDE TECNICHE

A1	Scheda tecnica BV-01 Lumeo e BS-01 Apex	pag. 24
A2	Schede tecniche BL-01, BL-02, BL-03, BL-05, BL-04	pag. 25

CONFORMITÀ

A3	Dichiarazione di conformità UE (20/06/2026)	pag. 28
A4	Certificato CE RED CCTI260427107C-R2	pag. 30
A5	Certificato RoHS 2.0 CCTI260427107R1C-R1	pag. 32

MANUALI D'USO

A6	Manuale d'uso BV-01 Lumeo	pag. 33
A7	Manuale d'uso BS-01 Apex	pag. 35
A8	Manuale d'uso BL-01, BL-02, BL-03	pag. 37
A9	Manuale d'uso BL-04	pag. 38
A10	Manuale d'uso BL-05	pag. 39

RAPPORTI DI PROVA

A11	Rapporto sicurezza EN IEC 62368-1 (S1-R1)	pag. 40
A12	Rapporto esposizione EMF EN 62311 (H1-R2)	pag. 120
A13	Rapporto compatibilità elettromagnetica (E1-R1)	pag. 128
A14	Rapporto radio Bluetooth EDR (W1-R1)	pag. 160
A15	Appendice Bluetooth EDR (W1-R1)	pag. 212
A16	Rapporto radio Bluetooth Low Energy (W2-R1)	pag. 238
A18	Rapporto radio Wi-Fi 2,4 GHz (W3-R1)	pag. 284
A20	Foto del campione provato (BV-01)	pag. 333
A21	Rapporto di prova RoHS (R1-R1)	pag. 339

Gli allegati sono copie per la consultazione: la firma digitale presente nei certificati e nei rapporti originali del laboratorio non si conserva quando i file vengono uniti in un unico PDF. Gli originali firmati, e le appendici dei rapporti Bluetooth LE e Wi-Fi (protette dalla stampa e quindi non incluse), sono disponibili su richiesta.

Smart Video Glasses AI

Scheda prodotto | BV-01 e BS-01

BV-01 Lumeo AI Video Glasses

Occhiali smart con camera HD, audio e AI

8 MP	7 h	4 h	2 GB
camera HD ultra-wide	ascolto musica	tempo di conversazione	memoria interna



Ideale per lavoro, viaggi e vita quotidiana: riunioni, chiamate, traduzione e foto a mani libere. Disponibile con lenti fotocromatiche.

- **Foto e video** in prima persona, a mani libere, ovunque.
- **Assistente AI:** supporta ChatGPT.
- **Traduzione in tempo reale:** traduce voce e cartelli, e ti spiega ciò che vedi.
- **Registrazione istantanea** di riunioni e chiamate, senza telefono.
- **Comandi:** 2 tasti fisici (accensione/pairing, video, foto).
- **Audio direzionale:** musica e chiamate in vivavoce.
- **Memoria:** 2 GB interni.
- **Batteria 290 mAh:** ricarica completa in 2 ore.
- **Resistenza all'acqua** certificata IPX4.
- **Controllo da app** semplice, con le funzioni rapide a portata di mano.

BS-01 Apex Sports Camera AI Glasses

Occhiali sportivi con fotocamera e assistente AI

8 MP	50 g	IP64	4 GB
Sony IMX219	montatura TR90 + ABS	totalmente protetto contro la polvere e dagli spruzzi d'acqua	memoria interna



Disponibile con lenti blu o lenti nere.

- **ChatGPT integrato:** fai domande in qualsiasi momento.
- **Assistente vocale** con riconoscimento oggetti e punti di riferimento.
- **Fotocamera 8 MP:** 3280x2464 a 30 fps, chip di elaborazione V821.
- **Traduzione in tempo reale:** traduce voce e cartelli, e ti spiega ciò che vedi.
- **Comandi:** 2 tasti fisici (accensione/pairing, video, foto).
- **Memoria:** 4 GB interni.
- **Batteria 260 mAh:** ricarica in 2 ore, 25 minuti di video continuo.
- **Audio e chiamate** a mani libere, pensato per ogni sport outdoor.
- **Controllo da app** semplice, con le funzioni rapide a portata di mano.

Smart Audio Glasses

Scheda prodotto | BL-01 e BL-02

BL-01 Bomanlon Luxury

Occhiali da sole smart in stile aviator, con audio e chiamate

10 h	6 h	1,5 h	UV
ascolto musica	tempo di conversazione	tempo di ricarica	protezione totale



Ideale per arrampicata, pesca, ciclismo, escursionismo e guida.

- **Design classico Bomanlon:** elegante e leggero per tutto il giorno.
- **Audio e chiamate a mani libere:** ascolta musica e rispondi mentre ti muovi.
- **Audio HD a 360°:** un ascolto coinvolgente e immersivo.
- **Comandi touch intuitivi:** gestisci musica e chiamate con un tocco sull'asta.
- **Assistente vocale:** tocca per attivare Siri e ascoltare la navigazione.
- **Protezione UV totale:** protegge gli occhi dai raggi nocivi e riduce l'affaticamento.
- **Batteria:** 10 h di musica, 6 h di conversazione, ricarica in 1,5 h.

BL-02 Bomanlon Infinity

Occhiali polarizzati con audio open-ear

10 h	IPX4	UV	Open-ear
ascolto musica	resistenza all'acqua	lenti polarizzate	audio aperto, leggero



Ideale per l'uso all'aperto: lenti polarizzate per una visione nitida.

- **Lenti polarizzate professionali:** protezione UV totale e massima nitidezza.
- **Audio privato open-ear:** la tua colonna sonora, solo per le tue orecchie.
- **Bluetooth istantaneo:** abbinamento e connessione in pochi secondi.
- **Chiamate in vivavoce:** conversazioni chiare mentre ti muovi.
- **Touch control:** tocca l'asta per attivare l'assistente vocale (Siri) e la navigazione.
- **Montatura in metallo a memoria:** si adatta al viso per un comfort duraturo.
- **Leggeri e IPX4:** resistenti all'acqua, pensati per l'uso quotidiano.

Smart Audio Glasses

Scheda prodotto | BL-03 e BL-06 | Business & Office Series

BL-03 Unify Smart Audio Glasses

La tua vita, perfettamente integrata: lenti fotocromatiche e audio

10 h	Pieghevole	Audio	Leggeri
ascolto musica	montatura in metallo a memoria	chiamate, musica e navigazione	compatti per tutto il giorno



Esterno: lenti scure, come occhiali da sole

Interno: lenti trasparenti, come occhiali normali

- **Visione adattiva:** le lenti fotocromatiche passano da trasparenti a scure in base alla luce.
- **Doppio uso:** occhiali normali al chiuso, occhiali da sole all'aperto.
- **Audio all-in-one:** il tuo hub per chiamate in vivavoce, musica e navigazione.
- **Compatti e leggeri:** la montatura pieghevole in metallo a memoria garantisce comfort tutto il giorno.
- **Comodità senza sforzo:** il compagno essenziale per ogni spostamento.

BL-05 Bomanlon Leisure

Per una comunicazione professionale di alto livello

10 h	6 h	1,5 h	IPX4
ascolto musica	tempo di conversazione	tempo di ricarica	resistenza all'acqua



Disponibile in nero

- **Estetica business:** acetato nero testurizzato e aste sottili, elegante e discreto in ogni contesto di lavoro.
- **Controllo preciso:** tasti fisici e volume a scorrimento, per usarli senza guardare anche in riunione.
- **Chiamate comode:** funzione di chiamata integrata, senza tirare fuori il telefono.
- **Lenti fotocromatiche:** trasparenti in ufficio, scure all'aperto, con ottica polarizzata HD e protezione UV.
- **Ricarica magnetica:** sicura, rapida e senza complicazioni.
- **Touch control:** tocca l'asta per attivare Siri.
- **Ideale per** professionisti, uffici e viaggi di lavoro.

Smart Audio Glasses

Scheda prodotto | BL-04 | Outdoor & Sports Series

BL-04

Blade Outdoor Audio Glasses

Prestazioni in alta definizione

4	Full-wrap	Polarizzate	Audio
colori: nero, blu, giallo, grigio	lenti antivento oversize	ottica per ogni sport	musica, chiamate, navigazione



Disponibile in nero, blu, giallo e grigio.

- **Lenti full-wrap antivento:** lenti oversize per una copertura totale degli occhi e protezione dal vento alle alte velocità.
- **Ottica polarizzata:** visione nitida e protezione per ogni attività outdoor.
- **Sicuri e leggeri:** design più snello per una vestibilità stabile anche in movimento.
- **Prestazioni connesse:** naviga, ascolta musica e rispondi alle chiamate senza interrompere la tua corsa.
- **Consapevolezza dell'ambiente:** parla al telefono sulle piste restando attento a ciò che ti circonda.
- **Ideale per** sport ad alta intensità come ciclismo, sci e pattinaggio.

Colori disponibili

Nero	Blu	Giallo	Grigio

Per ogni sport outdoor





Sci, snowboard, ciclismo, kayak, trail running, arrampicata: lenti full-wrap per ogni condizione.

Declaration of Conformity

Product：	Smart Glasses
Model Number：	Bomanlon BV-01, Bomanlon BL-01, Bomanlon BL-02, Bomanlon BL-03,Bomanlon BL-04, Bomanlon BL-05, Bomanlon BS-01
Manufacturer's Name：	Shenzhen Blue Vision Corporation Limited
Manufacturer's Address：	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District,Shenzhen, Guangdong Province, China.

This declaration of conformity is issued under the sole responsibility of the:

Company : Shenzhen Blue Vision Corporation Limited
Add: 509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District,
Shenzhen, Guangdong Province, China.

The declaration is in conformity with the relevant legislation: Radio Equipment Directive(RED)
References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared:European Radio Equipment Directive(RED) 2014/53/EU
The standard(s) used for showing compliance with the essential requirements **:**
EN IEC 62368-1:2024 + A11:2024
EN IEC 62311:2020; EN 50665:2017
ETSI EN 301 489-1 V2.2.3 (2019-11)
ETSI EN 301 489-17 V3.3.1(2024-09)
EN 55032:2015+A1:2020+A11:2020
EN 55035:2017+A11:2020
ETSI EN 300 328 V2.2.2 (2019-07)

The CNAS Laboratory:	Shenzhen CCTI Technology Co.,Ltd.
Address:	102, 1/F, Block A, Building E, Yongwei industrial Park, No. 118, Yongfu Road, Qiaotou, Fuhai Street, Bao'an District.Shenzhen,Guangdong, China
Tel:	400-188-9662 / 0755-27225865
Email:	ccti@ccti-lab.com
Website:	www.ccti-lab.com
Performed:	Performed the EU CE examination in according with Module A as per Annex ll to decision No. 2014/53/EU, and issued the Certificate of Compliance.

issued the certificates:
CCTI260427107C-R2 ， CCTI260427107S1-R1 ， CCTI260427107H1-R2 ， CCTI260427107E1-R1 ，
CCTI260427107W1-R1，CCTI260427107W2-R1，CCTI260427107W3-R1
Issued Date: Apr.30, 2026

The declaration is in conformity with the relevant legislation: RoHS 2.0 Regulation

References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared: RoHS 2.0 Directive (EU) 2015/863 and Directive 2011/65/EU

The standard(s) used for showing compliance with the essential requirements **:**

IEC 62321-3-1:2013,IEC 62321-4:2013+AMD1:2017,IEC 62321-5:2013.

IEC 62321-6:2015,IEC 62321-7-1:2015,IEC 62321-7-2:2017,

IEC 62321-8:2017

The CNAS Laboratory:	Shenzhen CCTI Technology Co.,Ltd.
Address:	102, 1/F, Block A, Building E, Yongwei industrial Park, No. 118, Yongfu Road, Qiaotou, Fuhai Street, Bao'an District.Shenzhen,Guangdong, China
Tel:	400-188-9662 / 0755-27225865
Email:	ccti@ccti-lab.com
Website:	www.ccti-lab.com
Performed:	Performed the EU ROHS examination in according with Module A as RoHS 2.0 Directive (EU) 2015/863 and (EU)2017/2102 amending Annex II to Directive 2011/65/EU, and issued the Certificate of Compliance.

issued the certificates:CCT1-2025072143C,CCT1-2025072143R

Issued Date: Apr. 30, 2026

Shenzhen Blue Vision Corporation Limited

Add: 509B, 5th Floor, Block B, Zhantao Technology Building, Xinniu Community, Minzhi Street, Longhua District, Shenzhen

Date: June 20th, 2026

Position: Product Manager

Signature : Rock Tang

Certificate of Compliance

Certificate Number: CCTI260427107C-R2

Applicant	:	**Shenzhen Blue Vision Corporation Limited**
Address	:	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.
Manufacturer	:	**Shenzhen Blue Vision Corporation Limited**
Address	:	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.
Product	:	**Smart Glasses**
Trademark	:	**BOMANLON**
Model No.	:	**Bomanlon BV-01** **Serial model No: See serial model No. Table.**

Essential requirement		Applied Specifications/Standards	Documentary Evidence
Art.3.1(a)	Safety	EN IEC 62368-1:2024 + A11:2024	CCTI260427107S1-R1
Art.3.1(a)	Health	EN IEC 62311:2020; EN 50665:2017	CCTI260427107H1-R2
Art.3.1(b)	EMC	ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.3.1(2024-09) EN 55032:2015+A1:2020+A11:2020 EN 55035:2017+A11:2020	CCTI260427107E1-R1
Art.3.2	Radio	ETSI EN 300 328 V2.2.2 (2019-07)	CCTI260427107W1-R1 CCTI260427107W2-R1 CCTI260427107W3-R1

The EUT described above has been tested by us with the listed standards and found in compliance with the council Radio Equipment Directive(RED) directive 2014/53/EU. It is possible to use CE marking to demonstrate the compliance with this Directive. The scope of evaluation relates to the submitted documents only.

CE

SHENZHEN CCTI TECHNOLOGY CO., LTD. APPROVED

Manager

May 22, 2026

Shenzhen CCTI Technology Co., Ltd.

Add: A1-1, Building B1&B2, No.45 Gangtou Road, Bogang District, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel：400-188-9662 0755-27225865 Email：ccti@ccti-lab.com Web：www.ccti-lab.com

This Certificate of Conformity is based on single evaluation of the submitted sample(s) of the above mentioned product. It does not imply an assessment of the whole product and relevant. Directives to be observed.

Certificate of Compliance

Certificate Number: CCTI260427107C-R1

serial model No. table.		
Bomanlon BV-02	Bomanlon BV-03	Bomanlon BV-04
Bomanlon BV-05	Bomanlon BV-06	Bomanlon BV-07
Bomanlon BV-08	Bomanlon BV-09	Bomanlon BV-10
Bomanlon BL-01	Bomanlon BL-02	Bomanlon BL-03
Bomanlon BL-04	Bomanlon BL-05	Bomanlon BL-06
Bomanlon BL-07	Bomanlon BL-08	Bomanlon BL-09
Bomanlon BL-10	Bomanlon BL-11	Bomanlon BL-12
Bomanlon BL-13	Bomanlon BL-14	Bomanlon BL-15
Bomanlon BL-16	Bomanlon BS-01	Bomanlon BS-02
Bomanlon BS-03	Bomanlon BS-04	Bomanlon BS-05
Bomanlon BS-06	Bomanlon BS-07	Bomanlon BS-08
Bomanlon BS-09	Bomanlon BS-10	

CE

SHENZHEN CCTI TECHNOLOGY CO., LTD.
APPROVED

Manager
May 22, 2026

Shenzhen CCTI Technology Co., Ltd.
Add: A1-1, Building B1&B2, No.45 Gangtou Road, Bogang District, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Tel：400-188-9662 0755-27225865 Email：ccti@ccti-lab.com Web：www.ccti-lab.com

This Certificate of Conformity is based on single evaluation of the submitted sample(s) of the above mentioned product. It does not imply an assessment of the whole product and relevant. Directives to be observed.

Certificate of Compliance

Certificate Number: CCTI260427107R1C-R1

Applicant	:	**Shenzhen Blue Vision Corporation Limited**
Address	:	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.
Manufacturer	:	**Shenzhen Blue Vision Corporation Limited**
Address	:	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.
Product	:	**Smart Glasses**
Trademark	:	**BOMANLON**
Model No.	:	**Bomanlon BV-01** **Bomanlon BV-02,Bomanlon BV-03,Bomanlon BV-04,Bomanlon BV-05, Bomanlon BV-06,Bomanlon BV-07,Bomanlon BV-08,Bomanlon BV-09, Bomanlon BV-10,Bomanlon BL-01,Bomanlon BL-02,Bomanlon BL-03, Bomanlon BL-04,Bomanlon BL-05,Bomanlon BL-06,Bomanlon BL-07, Bomanlon BL-08,Bomanlon BL-09,Bomanlon BL-10,Bomanlon BL-11, Bomanlon BL-12,Bomanlon BL-13,Bomanlon BL-14,Bomanlon BL-15, Bomanlon BL-16,Bomanlon BS-01,Bomanlon BS-02,Bomanlon BS-03, Bomanlon BS-04,Bomanlon BS-05,Bomanlon BS-06,Bomanlon BS-07, Bomanlon BS-08,Bomanlon BS-09,Bomanlon BS-10**
Test Standard	:	**IEC 62321-3-1:2013, IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-8:2017**

The EUT described above has been tested by us and found in compliance with the council RoHS 2.0 Directive (EU) 2015/863 and (EU) 2017/2102 amending Annex II to Directive 2011/65/EU.
The certificate applies to the tested sample above mentioned only, It is only valid in connection with the test report number: CCTI260427107R1-R1.

RoHS

SHENZHEN CCTI TECHNOLOGY CO., LTD. APPROVED

Manager
May. 07, 2026

Shenzhen CCTI Technology Co., Ltd.
Add: A1-1, Building B1&B2, No.45 Gangtou Road, Bogang District, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Tel：400-188-9662 0755-27225865 Email：ccti@ccti-lab.com Web：www.ccti-lab.com

This Certificate of Conformity is based on single evaluation of the submitted sample(s) of the above mentioned product. It does not imply an assessment of the whole product and relevant. Directives to be observed.

Bomanlon

BV-01

OCCHIALI INTELLIGENTI

Manuale d'uso

SUB

Download dell'app e connessione

Scarica l'app:

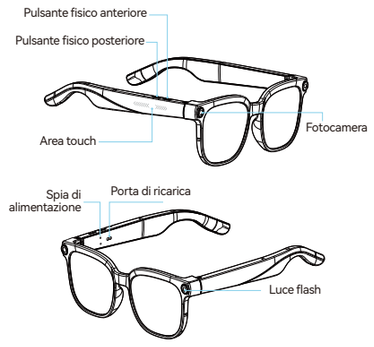
Metodo 1:
cerca e scarica «HeyCyan» da Google Play, App Store e altri store di applicazioni.
Metodo 2:
inquadra il codice QR qui sotto per scaricare e installare l'app.

Collegamento allo smartphone:

1.Attiva il Bluetooth dello smartphone.
2.Accendi gli occhiali intelligenti.
3.Apri l'app «HeyCyan» (al primo utilizzo è richiesta la registrazione di un account). Tocca «Connect Device» (Collega dispositivo), poi segui le istruzioni nell'app per selezionare «Bomanlon BV-01».
4.Conferma la richiesta di accoppiamento Bluetooth per completare la connessione.

Riconnessione automatica: gli occhiali si ricollegano automaticamente allo smartphone già associato quando rientrano nel suo raggio Bluetooth.

Aspetto



Istruzioni d'uso

- **Accensione:** tieni premuto il pulsante fisico anteriore per 2 secondi, poi sentirai il suono di accensione.
- **Spegnimento:** tieni premuto il pulsante fisico anteriore per 5 secondi, poi sentirai il suono di spegnimento. Il dispositivo si spegne automaticamente dopo 5 minuti se non è collegato al telefono.
- **Scattare una foto:** premi una volta il pulsante fisico anteriore.
- **Registrare un video:** premi due volte il pulsante fisico anteriore.
  Interrompere e salvare il video: durante la registrazione, premi una volta il pulsante fisico anteriore.
- **Registrazione audio:** tieni premuto il pulsante fisico posteriore per avviarla.
- **Interrompere e salvare l'audio:** durante la registrazione, premi una volta il pulsante fisico posteriore.
- **Rispondere a una chiamata:** premi una volta il pulsante fisico anteriore.
- **Rifiutare una chiamata:** premi due volte il pulsante fisico anteriore.
- **Terminare una chiamata:** premi il pulsante fisico anteriore durante la chiamata.
- **Riconoscimento immagini con IA:** premi due volte il pulsante fisico posteriore per attivarlo.
- **Attivazione dell'assistente IA:** premi una volta il pulsante fisico posteriore oppure usa il comando vocale «Hey, Cyan». Poi puoi dare comandi vocali o fare domande.
- **Riproduzione/pausa musica:** tocca due volte l'area touch destra per mettere in pausa, e due volte ancora per riprendere.
- **Brano precedente:** tocca tre volte di seguito l'area touch destra.
- **Brano successivo:** tieni premuta l'area touch destra.
  Alzare il volume: durante la riproduzione, scorri una volta in avanti sull'area touch destra per aumentare di un livello.
- **Abbassare il volume:** durante la riproduzione, scorri una volta all'indietro sull'area touch destra per diminuire di un livello.
- **Rilevamento di utilizzo:** se togli gli occhiali durante la riproduzione, la musica va in pausa automaticamente.

Note importanti

- **Sicurezza durante la ricarica:** assicurati che l'ambiente di ricarica sia completamente asciutto. Caricare in ambienti bagnati o umidi è severamente vietato, per evitare rischi elettrici.
- **Accessori originali:** usa solo il cavo di ricarica magnetico originale incluso nella confezione. Così si preserva la durata della batteria e si protegge il circuito interno.
- **Maneggiare con cura:** la montatura è realizzata con materiali leggeri e flessibili (come il TR90), ma va maneggiata con delicatezza per evitare cadute o urti forti. Se il prodotto mostra segni di danni o crepe, smetti subito di usarlo per evitare lesioni.
- **Resistenza all'acqua:** il prodotto offre una protezione di base contro gli spruzzi (IPX4). Tuttavia non è completamente impermeabile: non esporlo a pioggia intensa e non immergerlo in acqua.
- **Riprese di nascosto vietate:** il prodotto consente di scattare foto e registrare video. Rispetta la privacy degli altri e osserva rigorosamente le leggi e i regolamenti locali. L'uso non autorizzato, come le riprese di nascosto, è severamente vietato.

Avvertenza FCC

Questo dispositivo è conforme alla Parte 15 delle norme FCC. Il funzionamento è soggetto alle due condizioni seguenti:
1.Il dispositivo non deve causare interferenze dannose.
2.Il dispositivo deve accettare qualsiasi interferenza ricevuta, comprese quelle che possono causare un funzionamento indesiderato.
Qualsiasi cambiamento o modifica non espressamente approvata dalla parte responsabile della conformità potrebbe annullare il diritto dell'utente a usare l'apparecchio.
Nota: questo apparecchio è stato testato ed è risultato conforme ai limiti per un dispositivo digitale di Classe B, ai sensi della Parte 15 delle norme FCC. Questi limiti sono pensati per fornire una protezione ragionevole contro le interferenze dannose in un'installazione residenziale. L'apparecchio genera, utilizza e può irradiare energia a radiofrequenza e, se non installato e usato in conformità alle istruzioni, può causare interferenze dannose alle comunicazioni radio. Non vi è tuttavia garanzia che non si verifichino interferenze in una particolare installazione. Se l'apparecchio causa interferenze dannose alla ricezione radiotelevisiva, verificabili spegnendolo e riaccendendolo, si consiglia di provare a correggerle con una o più delle seguenti misure:
• riorientare o spostare l'antenna ricevente;
• aumentare la distanza tra l'apparecchio e il ricevitore;
• collegare l'apparecchio a una presa di un circuito diverso da quello a cui è collegato il ricevitore;
• rivolgersi al rivenditore o a un tecnico radio/TV esperto.
Il dispositivo è stato valutato per rispettare i requisiti generali di esposizione alle radiofrequenze. Può essere usato in condizioni di esposizione portatile senza restrizioni.

Note importanti: conformità UE e smaltimento

Dichiarazione di conformità UE semplificata

Con la presente il fabbricante Shenzhen Blue Vision Corporation Ltd dichiara che gli occhiali intelligenti sono conformi alla Direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo internet: https://www.bomanlon.com/press

La batteria interna è integrata e non rimovibile, e non deve essere smaltita con i rifiuti domestici. Smaltisci la batteria solo presso centri di raccolta autorizzati o punti di raccolta designati. Il simbolo del bidone con le ruote barrato indica che la batteria è soggetta a raccolta differenziata. Un corretto smaltimento aiuta a prevenire potenziali effetti negativi sull'ambiente e sulla salute umana. Il mancato rispetto delle norme sullo smaltimento delle batterie costituisce condotta fraudolenta ed è punibile per legge.

Rifiuti elettrici ed elettronici (RAEE)

Ai sensi della Direttiva 2012/9/UE sui rifiuti di apparecchiature elettriche ed elettroniche (RAEE), la presenza del simbolo del bidone barrato indica che questo apparecchio non va considerato rifiuto urbano: il suo smaltimento deve avvenire tramite raccolta differenziata. Lo smaltimento in modo non differenziato può costituire un potenziale danno per l'ambiente e la salute. Il prodotto può essere restituito al distributore al momento dell'acquisto di un nuovo dispositivo. Lo smaltimento improprio dell'apparecchio costituisce condotta illecita ed è soggetto a sanzioni da parte dell'Autorità di Pubblica Sicurezza. Per ulteriori informazioni, contatta l'amministrazione locale competente in materia ambientale.

Produttore:
Shenzhen Blue Vision Corporation Ltd
Indirizzo: 509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Cina.
E-mail: service@bomanlon.com
Sito web: www.bomanlon.com

Fabbricato in Cina

PANTONE 2035U

72*165

128g双铜+正反面印刷

Bomanlon

BV-01

SMART GLASSES

User Manual

EN

APP Download and Connection

Download APP :

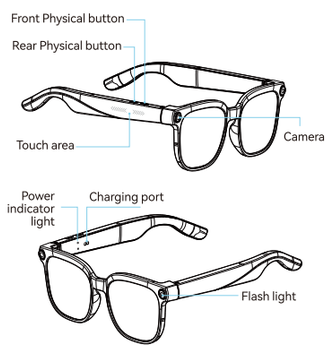
Method One:
Search and download “HeyCyan” from Google Play, App Store and other application markets.
Method Two:
Scan QR code below to download and install the APP.

Connecting with Smartphone:

Connecting with Smartphone:
1. Turn on your smartphone's Bluetooth.
2. Turn on the smart glasses.
3. Open the "HeyCyan" app (account registration required for first-time use). Tap "Connect Device", then follow in-app prompts to select “Bomanlon BV-01” .
4. Confirm Bluetooth Pairing request to complete connection.

Auto Reconnect:
The smart glasses will automatically reconnect with your previously paired smartphone upon entering its Bluetooth coverage.

Appearance



Operation Instructions

- **Power On:** press and hold the front physical button for 2 seconds and then the power on tone will be announced.
- **Power Off:** Long press the front physical button for 5 seconds and then followed by a power off tone. The device will power off automatically after 5 minutes if it is not connected to your phone.
- **Take A Picture:** press the front physical button once to take a photo.
- **Video Recording:** press the front physical button twice to record a video.
- **Video Recording Stop and Save:** press the front physical button once to stop and save the video during recording.
- **Audio Recording:** press and hold the rear physical button to start audio recording.
- **Audio Recording Stop & Save:** press the rear physical button once to stop and save during recording.
- **Answer An Incoming Call:** press the front physical button once.
- **Reject An Incoming Call:** press the front physical button twice.
- **Hang Up A Call:** press the front physical button during a call.
- **AI Image Recognition:** double press the rear physical button to enable AI image recognition.
- **AI Assistance Activation:** press the rear physical button once or use the voice command “Hey, Cyan” to activate the AI assistance to start voice command or ask any questions.
- **Play/Pause Music:** double-press the right touch area to pause, and double-press again to resume playback.
- **Previous Track:** tap the right touch area three times consecutively.
- **Next Track:** tap and hold the right touch area.
- **Volume Up:**while playing music, swipe forward once on the right touch area to increase the volume by one level.
- **Volume Down:** while playing music, swipe backward once on the right touch area to decrease the volume by one level.
- **Wear Detection:** while playing music, take off your glasses and the music will pause automatically.

Important Notes

- **Charging Safety:** Ensure the charging environment is completely dry. Charging in wet or damp conditions is strictly prohibited to prevent electrical hazards.
- **Original Accessories:** Please use only the original magnetic charging cable included in the package. This ensures battery longevity and protects the internal circuitry.
- **Handle with Care:** While the frames are designed with lightweight and flexible materials (like Tr90), they should be handled gently to avoid dropping or heavy impact. If the product shows any signs of damage or cracking, discontinue use immediately to avoid injury.
- **Water Resistance:** The product offers basic protection against splashes (IPX4). However, it is not fully waterproof; do not expose it to heavy rain or submerge it in water.
- **Secret Filming Prohibited**: This product supports photo and video recording. Please respect others' privacy and strictly adhere to local laws and regulations. Unauthorized use, such as secret filming, is strictly prohibited.

FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
1.This device may not cause harmful interference.
2.This device must accept any interference received, including interference that may cause undesired operation. Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy, if not installed and used not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
Reorient or relocate the receiving antenna.Increase the separation between the equipment and receiver.Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.Consult the dealer or an experienced radio/TV technician for help.
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

Important Notes

Simplified EU declaration of conformity
Hereby, manufacturer Shenzhen Blue Vision Corporation Ltd declares that the smart glasses are in compliance with Directive 2014/53/EU. The fulltext of the EU declaration of conformity is available at the following internet address: https://www.bomanlon.com/press

The internal battery is integrated and non-separable and must not be disposed of with household waste. Dispose of the battery only at authorized collection centers or designated collection points. The crossed-out wheeled bin symbol indicates that the battery is subject to separate waste collection. Correct disposal helps prevent potential negative effects on the environment and human health. Failure to comply with battery disposal regulations constitutes fraudulent conduct and is punishable by law.

Important Notes

According to Directive 2012/9/EU on waste electrical and electronic equipment (WEEE), the presence of the crossed-out bin symbol indicates that this appliance is not to be considered as urban waste: its disposal must be carried out by separate collection. Disposal in a non-separate manner may constitute a potential arm to the environment and health. This product can be returned to the distributor when purchasing a new device. Improper disposal of the appliance constitutes misconduct and is subject to sanctions by the Public Security Authority. For further information, contact the local administration responsible for environmental matters.

Manufacturer:
Shenzhen Blue Vision Corporation Ltd
Add: 509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, China.
E-mail: service@bomanlon.com
Web: www.bomanlon.com

Made in China

Bomanlon

BV-01

Inteligentne okulary

Instrukcja obsługi

PL

Pobieranie i łączenie aplikacji

Pobieranie aplikacji

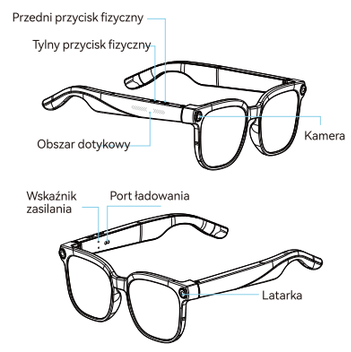
Sposób pierwszy:
Wyszukaj i pobierz aplikację „HeyCyan” w sklepie Google Play, App Store oraz innych sklepach z aplikacjami.
Sposób drugi:
Zeskanuj poniższy kod QR, aby pobrać i zainstalować aplikację.

Jak połączyć:

Łączenie z telefonem smartfonem
1.Włącz Bluetooth w telefonie.
2. Włącz okulary inteligentne.
3. Uruchom aplikację „HeyCyan” (przy pierwszym użyciu wymagana jest rejestracja konta). Kliknij „Połącz urządzenie”, a następnie postępuj zgodnie z instrukcjami w aplikacji i wybierz urządzenie „Bomanlon BV-01”.
4. Potwierdź prośbę o sparowanie Bluetooth, aby zakończyć łączenie.

Automatyczne ponowne łączenie
Okulary inteligentne automatycznie połączą się ponownie z wcześniej sparowanym telefonem po wejściu w zasięg jego sygnału Bluetooth.

Wygląd



Instrukcja obsługi

- **Włączanie urządzenia:**Naciśnij i przytrzymaj przedni przycisk fizyczny przez 2 sekundy – usłyszysz dźwięk włączenia.
- **Wyłączanie urządzenia:**Naciśnij i przytrzymaj przedni przycisk fizyczny przez 5 sekund, po czym rozlegnie się dźwięk wyłączenia. Jeśli urządzenie nie zostanie połączone z telefonem, wyłączy się automatycznie po 5 minutach.
- **Robienie zdjęcia:**Naciśnij raz przedni przycisk fizyczny, aby zrobić zdjęcie.
- **Nagrywanie wideo:**Naciśnij dwukrotnie przedni przycisk fizyczny, aby rozpocząć nagrywanie wideo.
- **Zatrzymanie i zapisanie wideo:**Podczas nagrywania wideo naciśnij raz przedni przycisk fizyczny, aby zatrzymać i zapisać plik.
- **Nagrywanie dźwięku:**Naciśnij i przytrzymaj tylny przycisk fizyczny, aby rozpocząć nagrywanie dźwięku.
- **Zatrzymanie i zapisanie nagrania dźwiękowego:**Podczas nagrywania naciśnij raz tylny przycisk fizyczny, aby zatrzymać i zapisać plik.
- **Odbieranie połączenia przychodzącego:**Naciśnij raz przedni przycisk fizyczny.
- **Odrzucanie połączenia przychodzącego:**Naciśnij dwukrotnie przedni przycisk fizyczny.
- **Zakończenie połączenia:**Naciśnij przedni przycisk fizyczny w trakcie rozmowy.
- **Rozpoznawanie obrazu AI:**Naciśnij dwukrotnie tylny przycisk fizyczny, aby włączyć rozpoznawanie obrazu AI.
- **Aktywacja asystenta AI:**Naciśnij raz tylny przycisk fizyczny lub wypowiedz komendę głosową „Hey, Cyan”, aby uruchomić asystenta AI i korzystać z poleceń głosowych lub zadać pytania.
- **Odtwarzanie / wstrzymanie muzyki:**Naciśnij dwukrotnie prawy obszar dotykowy, aby wstrzymać odtwarzanie; ponowne podwójne naciśnięcie wznowi muzykę.
- **Poprzedni utwór:**Naciśnij trzykrotnie po sobie prawy obszar dotykowy.
- **Następny utwór:**Naciśnij i przytrzymaj prawy obszar dotykowy.
- **Zwiększanie głośności:**Podczas odtwarzania muzyki przesuń palcem raz do przodu po prawym obszarze dotykowym – głośność wzrośnie o jeden stopień.
- **Zmniejszanie głośności:**Podczas odtwarzania muzyki przesuń palcem raz do tyłu po prawym obszarze dotykowym – głośność zmniejszy się o jeden stopień.
- **Wykrywanie zdjęcia okularów:**Muzyka zostanie automatycznie wstrzymana po zdjęciu okularów podczas odtwarzania.

Ważne uwagi

- **Bezpieczeństwo ładowania:** Upewnij się, że otoczenie, w którym odbywa się ładowanie, jest całkowicie suche. Ładowanie w warunkach mokrych lub wilgotnych jest surowo zabronione, aby zapobiec zagrożeniom elektrycznym.
- **Oryginalne akcesoria:** Prosimy używać wyłącznie oryginalnego magnetycznego kabla ładującego dołączonego do zestawu. Zapewnia to długą żywotność baterii oraz chroni wewnętrzne układy elektroniczne.
- **Ostrożne obchodzenie się:** Choć oprawki zostały wykonane z lekkich i elastycznych materiałów (takich jak Tr90), należy obchodzić się z nimi delikatnie, unikając upuszczania oraz silnych uderzeń. Jeśli produkt wykazuje jakiekolwiek oznaki uszkodzenia lub pęknięcia, należy natychmiast zaprzestać jego użytkowania, aby uniknąć obrażeń.
- **Wodoodporność:** Produkt zapewnia podstawową ochronę przed zachlapaniem (IPX4). Nie jest on jednak w pełni wodoszczelny; nie należy wystawiać go na działanie ulewnego deszczu ani zanurzać w wodzie.
- Produkt ten umożliwia nagrywanie zdjęć i filmów. Prosimy o poszanowanie prywatności innych osób oraz ścisłe przestrzeganie lokalnych przepisów i regulacji prawnych. Nieuprawnione użycie – takie jak potajemne nagrywanie – jest surowo zabronione.

Ostrzeżenie FCC:

Niniejsze urządzenie jest zgodne z częścią 15 przepisów FCC. Jego działanie podlega następującym dwóm warunkom:
(1) Urządzenie to nie może powodować szkodliwych zakłóceń.
(2) Urządzenie to musi przyjmować wszelkie odbierane zakłócenia, w tym zakłócenia, które mogą powodować niepożądane działanie.
Wszelkie zmiany lub modyfikacje, które nie zostały wyraźnie zatwierdzone przez podmiot odpowiedzialny za zgodność z przepisami, mogą unieważnić prawo użytkownika do obsługi tego urządzenia.
Uwaga: Niniejsze urządzenie zostało przetestowane i uznane za zgodne z limitami dla urządzeń cyfrowych klasy B, zgodnie z częścią 15 przepisów FCC. Limity te zostały opracowane w celu zapewnienia rozsądnej ochrony przed szkodliwymi zakłóceniami w instalacjach domowych. Urządzenie to generuje, wykorzystuje i może emitować energię o częstotliwości radiowej; jeśli nie zostanie zainstalowane i nie będzie użytkowane zgodnie z instrukcją, może powodować szkodliwe zakłócenia w komunikacji radiowej. Jeśli urządzenie to powoduje szkodliwe zakłócenia w odbiorze radiowym lub telewizyjnym (co można stwierdzić poprzez wyłączenie i ponowne włączenie urządzenia), zaleca się użytkownikowi podjęcie próby usunięcia zakłóceń poprzez zastosowanie jednego lub kilku z następujących środków:
Zmiana orientacji lub lokalizacji anteny odbiorczej.
Zwiększenie odległości między urządzeniem a odbiornikiem.
Podłączenie urządzenia do gniazdka w obwodzie innym niż ten, do którego podłączony jest odbiornik.
Skonsultowanie się ze sprzedawcą lub doświadczonym technikiem radiowo-telewizyjnym w celu uzyskania pomocy.
Urządzenie zostało poddane ocenie pod kątem spełnienia ogólnych wymogów dotyczących narażenia na promieniowanie RF. Urządzenie może być używane w
warunkach narażenia typowych dla urządzeń przenośnych bez żadnych ograniczeń.

Ważne uwagi

Declaración de conformidad de la UE simplificada
Por la presente, el fabricante Shenzhen Blue Vision Corporation Ltd declara que las gafas inteligentes cumplen con la Directiva 2014/53/UE. El texto completo de la declaración de conformidad de la UE está disponible en la siguiente dirección de Internet: https://www.bomanlon.com/press

La batería interna está integrada y no es extraíble; no debe desecharse junto con la basura doméstica. Deseche la batería únicamente en centros de recogida autorizados o puntos de recolección designados. El símbolo del contenedor de basura tachado indica que la batería está sujeta a una recogida selectiva de residuos. Una eliminación correcta ayuda a prevenir posibles efectos negativos para el medio ambiente y la salud humana. El incumplimiento de la normativa sobre la eliminación de baterías constituye una conducta ilícita y es sancionable por ley.

Ważne uwagi

De conformidad con la Directiva 2012/9/UE sobre residuos de aparatos eléctricos y electrónicos (RAEE), la presencia del símbolo del contenedor tachado indica que este aparato no debe considerarse residuo urbano: su eliminación debe realizarse mediante recogida selectiva. Su eliminación sin separación previa puede suponer un riesgo para el medio ambiente y la salud. Este producto puede devolverse al distribuidor al adquirir un nuevo aparato. La eliminación inadecuada del aparato constituye una infracción y está sujeta a sanciones por parte de las autoridades competentes. Para más información, póngase en contacto con la administración local responsable de asuntos medioambientales.

Manufacturer:
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Made in China

Bomanlon

BV-01

GAFAS INTELIGENTES

Manual de Usuario

SP

Descarga y Conexión de la APP

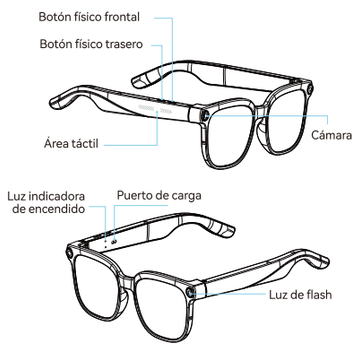
Descarga de la APP:

Método 1:
Busque y descargue «HeyCyan» en Google Play, App Store y otras tiendas de aplicaciones.
Método 2:
Escanee el código QR de abajo para descargar e instalar la app.

Instrucciones de Conexión del Dispositivo

Conexión con el teléfono inteligente:
1.Active el Bluetooth de su teléfono inteligente.
2.Encienda las gafas inteligentes.
3.Abra la aplicación «HeyCyan» (es necesario registrar una cuenta en el primer uso). Pulse «Conectar dispositivo» y siga las indicaciones de la app para seleccionar «Bomanlon BV-01».
4.Confirme la solicitud de emparejamiento Bluetooth para finalizar la conexión.
Reconexión automática:
Las gafas inteligentes se reconectarán automáticamente al teléfono previamente emparejado al entrar dentro del alcance de su señal Bluetooth.

Apariencia



Instrucciones de funcionamiento

- **Encender:** mantenga presionado el botón físico frontal durante 2segundos, a continuación, se reproducirá un tono de encendido.
- **Apagar:** mantenga presionado el botón físico frontal durante 5segundos, a continuación, se reproducirá un tono de apagado.Si no se empareja con ningún dispositivo, el equipo se apagaráautomáticamente después de 5 minutos.
- **Tomar Foto:** presione el botón físico frontal una vez para tomar una foto.
- **Grabar Vidéo:** presione el botón físico frontal dos veces para grabar un vídeo.
- **Parar y Guardar la Grabación de Vídeo:** presione el botón físico frontal una vez para parar y guardar el vídeo durante la grabación.
- **Grabr Audio:** mantenga presionado el botón físico trasero para empezar a grabar audio.
- **Parar y Guardar Grabación de Audio:** presione el botón físico trasero una vez para parar y guardar durante la grabación.
- **Responder Llamada Entrante:** presione el botón físico frontal una vez.
- **Rechazar Llamada Entrante:** presione el botón físico frontal dos veces.
- **Colgar Llamada:** presione el botón físico frontal durante una llamada.
- **Reconocimiento de Imagen por IA:** pulse dos veces el botón físico para activar el reconocimiento de imagen por IA.
- **Activar Asistencia de IA:** presione el botón físico trasero una vez o utilice el comando de voz «Hey, Cyan» para activar la asistencia de IA y así emitir comandos de voz o realizar consultas.
- **Reproducir/Pausar Música:** haga doble clic en el área táctil derechapara pausar yvuelva a hacer doble clic para reanudar la reproducción.
- **Pista Anterior:** pulse la zona táctil derecha tres veces consecutivas.
  Pista Siguiente: pulse y mantenga la zona táctil derecha.
- **Subir Volumen:** mientras se reproduce música, deslice una vez hacia adelante en la zona táctil derecha para subir el volumen un nivel.
- **Bajar Volumen:** mientras se reproduce música, deslice una vez hacia atrás en la zona táctil derecha para bajar el volumen un nivel.
- **Detección de Uso:** durante la reproducción de músicaquitese las gafas yla música se pausará automáticamente.

Notas importantes

- **Seguridad de carga:** Asegúrese de que el entorno de carga esté completamente seco. Está estrictamente prohibido realizar la carga en condiciones húmedas o mojadas para evitar riesgos eléctricos.
- **Accesorios originales:** Por favor, utilice únicamente el cable de carga magnético original incluido en el paquete. Esto garantiza la longevidad de la batería y protege los circuitos internos.
- **Manipulación cuidadosa:** Aunque las monturas están diseñadas con materiales ligeros y flexibles (como el Tr90), deben manipularse con suavidad; evite dejarlas caer o someterlas a impactos fuertes. Si el producto presenta algún signo de daño o grietas, suspenda su uso de inmediato para evitar lesiones.
- **Resistencia al agua:** El producto ofrece una protección básica contra salpicaduras (IPX4). Sin embargo, no es totalmente impermeable; no lo exponga a lluvias intensas ni lo sumerja en agua.
- **Prohibida la grabación secreta:** respete la privacidad de los demás, cumpla las leyes locales y solo tome fotos o videos con permiso.

Advertencia de la FCC:

Este dispositivo cumple con la Parte 15 de las Normas de la FCC. Su funcionamiento está sujeto a las dos condiciones siguientes:
(1) Este dispositivo no debe causar interferencias perjudiciales.
(2) Este dispositivo debe aceptar cualquier interferencia recibida, incluidas aquellas que puedan causar un funcionamiento no deseado.
Cualquier
cambio o modificación no aprobado expresamente por la parte responsable del cumplimiento podría anular la autoridad del usuario para
operar el equipo. Nota: Este equipo ha sido probado y se ha determinado que cumple con los límites para un dispositivo digital de Clase B, de conformidad con la Parte 15 de
las Normas de la FCC. Estos límites están diseñados para proporcionar una protección razonable contra interferencias perjudiciales en una instalación
residencial. Este equipo genera, utiliza y puede irradiar energía de radiofrecuencia; si no se instala y utiliza de acuerdo con las instrucciones, podría causar interferencias perjudiciales en las comunicaciones por radio. Sin embargo, no existe garantía de que no se produzcan interferencias en una
instalación en particular. Si este equipo causa interferencias perjudiciales en la recepción de radio o televisión —lo cual puede determinarse
apagando y encendiendo el equipo—, se recomienda al usuario que intente corregir la interferencia mediante una o más de las siguientes medidas:
Reorientar o reubicar la antena receptora.
Aumentar la separación entre el equipo y el receptor. Conectar el equipo a una toma de corriente en un circuito diferente de aquel al que está conectado el receptor. Consultar al distribuidor o a un técnico experimentado en radio/TV para obtener ayuda. El dispositivo ha sido evaluado

Notas importantes

Uproszczona deklaracja zgodności UE
Niniejszym producent Shenzhen Blue Vision Corporation td oświadcza, że inteligentne okulary są zgodne z dyrektywą 2014/53/UE. Pełny tekst deklaracji zgodności UE jest dostępny pod astępującym adresem internetowym: https://www.bomanlon.com/press

Wbudowany akumulator jest elementem zespolonym i nie podlega demontażowi; nie wolno go wyrzucać wraz z odpadami domowymi. Akumulator należy oddawać wyłącznie do autoryzowanych punktów zbiórki lub wyznaczonych miejsc gromadzenia odpadów. Symbol przekreślonego pojemnika na odpady na kółkach oznacza, że akumulator podlega selektywnej zbiórce. Prawidłowa utylizacja pomaga zapobiegać potencjalnym negatywnym skutkom dla środowiska i zdrowia ludzi. Nieprzestrzeganie przepisów dotyczących utylizacji akumulatorów stanowi naruszenie prawa i podlega karze.

Notas importantes

Zgodnie z dyrektywą 2012/9/UE w sprawie zużytego sprzętu elektrycznego elektronicznego (WEEE), symbol przekreślonego kosza na śmieci oznacza, że urządzenia tego nie należy traktować jak odpadów komunalnych; wymaga ono oddzielnej zbiórki w celu utylizacji. Niewłaściwa utylizacja może stanowić zagrożenie dla środowiska i zdrowia. Produkt ten można zwrócić dystrybutorowi przy zakupie nowego urządzenia. Niewłaściwe postępowanie z urządzeniem stanowi naruszenie przepisów i podlega sankcjom nakładanym przez organy odpowiedzialne za porządek publiczny. W celu uzyskania dodatkowych informacji należy skontaktować się z lokalnymi władzami odpowiedzialnymi za ochronę środowiska.

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Made in China

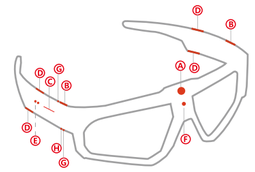
Bomanlon

BS-01

Occhiali smart

Manuale d'uso

SUB

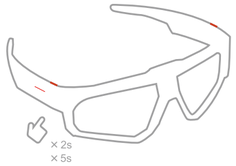


Ⓐ Fotocamera Ⓑ Pulsante fisico Ⓒ Area touch Ⓓ Altoparlante
Ⓔ Porta di ricarica Ⓕ Spia luminosa Ⓖ Microfono Ⓗ Spia di stato

Accensione/spegnimento

Accensione: tenere premuto il pulsante fisico destro per 2 secondi.
Spegnimento: tenere premuto il pulsante fisico destro per 5 secondi.

(Nota: il dispositivo si spegne automaticamente dopo 5 minuti senza connessione. Se la connessione non riesce, si consiglia di riavviarlo.)



Associazione con il telefono

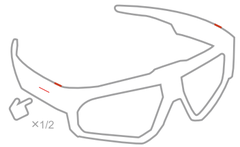
Scansionare il codice QR per scaricare l'app.

Come collegarli, associazione con il cellulare:
1.Attivare il Bluetooth del telefono.
2.Accendere gli occhiali per collegarli e associarli via Bluetooth.
3.Aprire l'app "Da Echo" (al primo utilizzo serve registrare un account), toccare "Connessione dispositivi", selezionare Bomanlon BS-01 e toccare "Connetti".

Riconnessione automatica: entro il raggio di connessione, gli occhiali si ricollegano automaticamente ai dispositivi già associati.

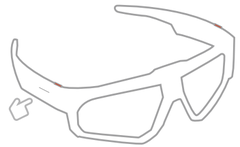
Musica

Riproduci/Pausa: doppio tocco sull'area touch.
Cambio brano: tenere premuta l'area touch per 2 secondi per passare al brano successivo; triplo tocco per tornare al precedente.



Volume

Alza il volume: scorrere sull'area touch destra in avanti.
Abbassa il volume: scorrere sull'area touch destra all'indietro.



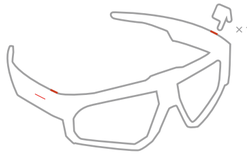
Foto/Registrazione video

Scattare una foto: premere una volta il pulsante fisico destro (non durante una chiamata o una registrazione).
Registrare un video: premere due volte il pulsante fisico destro (non durante una chiamata o una riproduzione).
Terminare la registrazione video: premere una volta il pulsante fisico destro durante la registrazione.
Registrare l'audio: premere due volte il pulsante fisico sinistro (non durante una chiamata o una riproduzione).
Terminare la registrazione audio: premere una volta il pulsante fisico sinistro durante la registrazione.



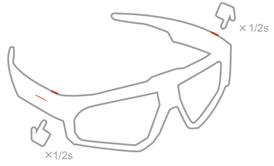
Attivazione dell'assistente vocale

Il Bluetooth deve essere collegato correttamente.
Assistente vocale AI: premere una volta il pulsante fisico sinistro.
Assistente vocale del telefono: tenere premuto il pulsante fisico sinistro per 2 secondi.



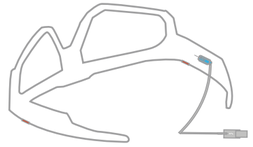
Chiamate

Rispondere/Terminare la chiamata: premere una volta il pulsante fisico sinistro o destro.
Rifiutare la chiamata: tenere premuto il pulsante fisico sinistro o destro per 2 secondi.



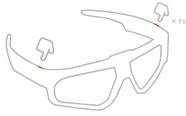
Ricarica

Ricarica magnetica: la luce rossa resta accesa durante la ricarica; a ricarica completata si accende la luce blu.



Informazioni per l'azzeramento dell'associazione

Ripristino di fabbrica: tenere premuto il pulsante destro per 10 secondi. Si sentirà prima il segnale di spegnimento; quando il segnale di accensione suona di nuovo, rilasciare il pulsante per completare l'operazione.
Cancellare le informazioni di associazione: tenere premuto il pulsante fisico sinistro per 7 secondi. (Nota: cancella le informazioni di associazione dei dispositivi collegati.)



Avvertenza FCC

Questo dispositivo è conforme alla Parte 15 delle norme FCC. Il funzionamento è soggetto alle due condizioni seguenti:
1.Il dispositivo non deve causare interferenze dannose;
2.Il dispositivo deve accettare qualsiasi interferenza ricevuta, comprese quelle che possono causare un funzionamento indesiderato.
Eventuali modifiche non espressamente approvate dalla parte responsabile della conformità potrebbero invalidare il diritto dell'utente a usare l'apparecchio.
Nota: questo apparecchio è stato testato ed è risultato conforme ai limiti per un dispositivo digitale di Classe B, ai sensi della Parte 15 delle norme FCC. Tali limiti sono concepiti per fornire una protezione ragionevole contro le interferenze dannose in un'installazione residenziale. L'apparecchio genera, utilizza e può irradiare energia a radiofrequenza e, se non installato e utilizzato secondo le istruzioni, può causare interferenze dannose alle comunicazioni radio. Non vi è tuttavia garanzia che in una particolare installazione non si verifichino interferenze. Se l'apparecchio causa interferenze alla ricezione radiotelevisiva, verificabili spegnendolo e riaccendendolo, si consiglia di cercare di eliminarle con una o più delle seguenti misure:
• riorientare o spostare l'antenna ricevente;
• aumentare la distanza tra l'apparecchio e il ricevitore;
• collegare l'apparecchio a una presa di un circuito diverso da quello a cui è collegato il ricevitore;
• rivolgersi al rivenditore o a un tecnico radio/TV esperto.
Il dispositivo è stato valutato come conforme ai requisiti generali di esposizione alle radiofrequenze e può essere usato in condizioni di esposizione portatile senza restrizioni.

Avvertenze importanti

• **Sicurezza durante la ricarica:** assicurarsi che l'ambiente di ricarica sia completamente asciutto. È severamente vietato caricare in ambienti bagnati o umidi, per evitare rischi elettrici.
• **Accessori originali:** usare solo il cavo di ricarica magnetico originale incluso nella confezione. Ciò garantisce la durata della batteria e protegge i circuiti interni.
• **Maneggiare con cura:** pur essendo la montatura leggera e flessibile, i materiali (come il TPU) vanno maneggiati con delicatezza, evitando cadute o urti forti. Se il prodotto mostra segni di danni o crepe, interromperne subito l'uso.
• **Resistenza all'acqua:** il prodotto offre una protezione di base contro gli schizzi (IPX4/IP65). Non è però completamente impermeabile: non esporlo a pioggia intensa e non immergerlo in acqua.
• Il prodotto supporta la registrazione di foto e video. Rispettare la privacy altrui e attenersi rigorosamente alle leggi e ai regolamenti locali. È severamente vietato l'uso non autorizzato, come le riprese di nascosto.

Note importanti: conformità UE e smaltimento

Dichiarazione UE di conformità semplificata
Con la presente, il produttore Shenzhen Blue Vision Corporation Ltd dichiara che gli occhiali smart sono conformi alla Direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo internet: https://www.bomanlon.com/press

Ai sensi della Direttiva 2012/9/UE sui rifiuti di apparecchiature elettriche ed elettroniche (RAEE), il simbolo del bidone barrato indica che questo apparecchio non va considerato un rifiuto urbano: lo smaltimento deve avvenire tramite raccolta differenziata. Uno smaltimento non differenziato può costituire un potenziale danno per l'ambiente e la salute. Questo prodotto può essere restituito al distributore al momento dell'acquisto di un nuovo dispositivo. Lo smaltimento improprio dell'apparecchio costituisce una condotta illecita ed è soggetto a sanzioni da parte dell'autorità di pubblica sicurezza. Per ulteriori informazioni, contattare l'amministrazione locale competente in materia ambientale.

La batteria interna è integrata e non rimovibile e non deve essere smaltita con i rifiuti domestici. Smaltire la batteria solo presso centri di raccolta autorizzati o punti di raccolta designati. Il simbolo del bidone con ruote barrato indica che la batteria è soggetta a raccolta differenziata. Un corretto smaltimento aiuta a prevenire possibili effetti negativi sull'ambiente e sulla salute umana. Il mancato rispetto delle norme sullo smaltimento delle batterie costituisce una condotta fraudolenta ed è punibile per legge.

Produttore:
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Fabbricato in Cina

PANTONE 2035 C 157G双铜649.5X165

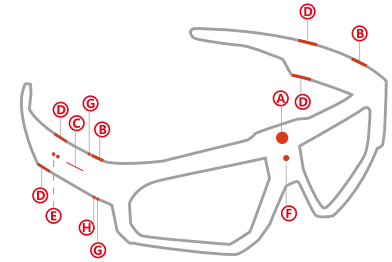
Bomanlon

BS-01

SMART GLASSES

User Manual

EN

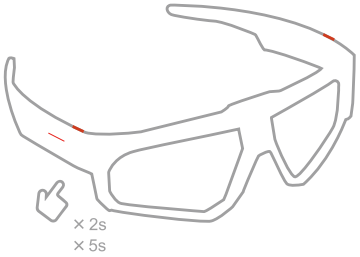


Ⓐ Camera
Ⓑ Physical button
Ⓒ Touch area
Ⓓ Speaker
Ⓔ Charging port
Ⓕ Indicator light
Ⓖ Microphone
Ⓗ Status light

Power On/Off

Power On: Press and hold the right physical buttonfor 2 seconds
Power Off: Press and hold the right physical buttonfor 5 seconds

(Note:The device will automatically shut down after 5 minutes without connection.If connection fails,restarting is recommended.)



Pair with Phone

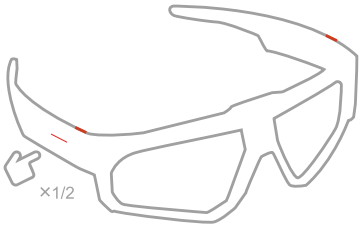
Scan to download the APP

How to link:
Cell phone pairing:
1.Turn on the BT function of your cell phone.
2.Turn on your glasses to connect and pair them via Bluetooth;
3.Open the "Da Echo" app (you need to register an account for the first time), click "Connecting Devices", select the Bomanlon BS-01, and click "Connect".

Auto Reconnect: Within the connection range, it will automatically connect back to the devices paired before.

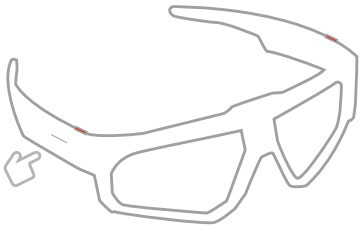
Music

Play/Pause: Double-tap the touch control area.
Music Switching: Press and hold the touch control area for 2 seconds to switch to the next track; Triple-tap to switch to the previous track



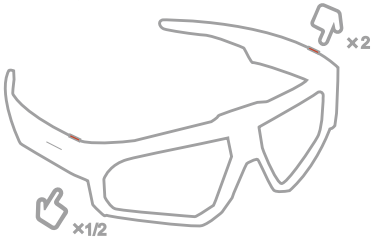
Volume

Volume Up: Swape the right touch area forward
Volume Down: Swape the right touch area backward



Photo/ Video Recording

Take Photo: Press the right physical button once(when not in a call or recording)
Record Video: Press the right physical button twice (when not in a call or playback)
End Video Recording: Press the right physical button once during recording
Record Audio: Press the left physical button twice (when not in a call or playback)
End Audio Recording: Press the left physical button once during recording

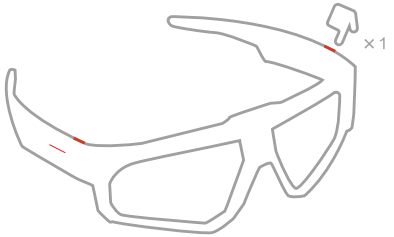


mm

Wake Up The Voice Assistant

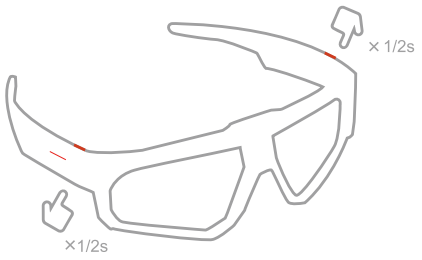
The bluetooth must be connected successfully.

AI Voice Assistant: Press the left physical button once
Mobile Phone Voice Assistant: Press and hold the left physical button for 2 seconds



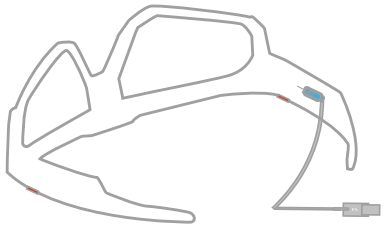
Calls

Answer/ End Call: Press the left/right physical button once
Reject Call: Press and hold the left/right physical button for 2 seconds



Power Charging

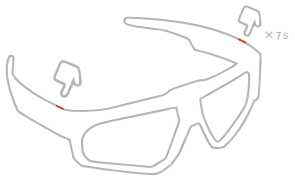
Magnetic Charging: Red light stays on while charging, when fully charged the blue light on.



Clear Pairing Information

Factory Reset Procedure:
Press and hold the Right button for 10 seconds. You will first hear a power-off notification tone; once the power-on notification tone sounds again, you may release the button to complete the operation.

Clear Pairing Information: Press and hold the left physical button for 7 seconds.(Note: Clear pairing information of connected devices.)



FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference
(2) This device must accept any interference received, including interference that may cause undesired operation. Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy, if not installed and used not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:Reorient or relocate the receiving antenna.Increase the separation between the equipment and receiver.Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio/TV technician for help.
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

Important Notes !

Charging Safety: Ensure the charging environment is completely dry. Charging in wet or damp conditions is strictly prohibited to prevent electrical hazards.
Original Accessories: Please use only the original magnetic charging cable included in the package. This ensures battery longevity and protects the internal circuitry.
Handle with Care: While the frames are designed with lightweight and flexible materials (like Tr90), they should be handled gently to avoid dropping or heavy impact. If the product shows any signs of damage or cracking, discontinue use immediately to avoid injury.
Water Resistance: The product offers basic protection against splashes (IPX4/IP65). However, it is not fully waterproof; do not expose it to heavy rain or submerge it in water.
This product supports photo and video recording. Please respect others' privacy and strictly adhere to local laws and regulations. Unauthorized use, such as secret filming, is strictly prohibited.

Important Notes !

Simplified EU declaration of conformity
Hereby, manufacturer Shenzhen Blue Vision Corporation Ltd declares that the smart glasses are in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: https://www.bomanlon.com/press

According to Directive 2012/9/EU on waste electrical and electronic equipment (WEEE), the presence of the crossed-out bin symbol indicates that this appliance is not to be considered as urban waste: its disposal must be carried out by separate collection. Disposal in a non-separate manner may constitute a potential arm to the environment and health. This product can be returned to the distributor when purchasing a new device. Improper disposal of the appliance constitutes misconduct and is subject to sanctions by the Public Security Authority. For further information, contact the local administration responsible for environmental matters.

The internal battery is integrated and non-separable and must not be disposed of with household waste. Dispose of the battery only at authorized collection centers or designated collection points. The crossed-out wheeled bin symbol indicates that the battery is subject to separate waste collection. Correct disposal helps prevent potential negative effects on the environment and human health. Failure to comply with battery disposal regulations constitutes fraudulent conduct and is punishable by law.

Manufacturer:
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Made in China

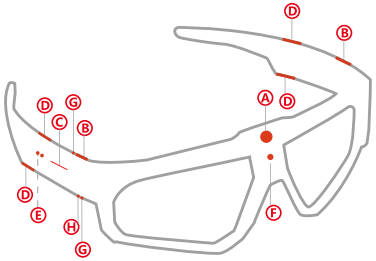
Bomanlon

BS-01

Inteligentne okulary

Instrukcja obsługi

PL



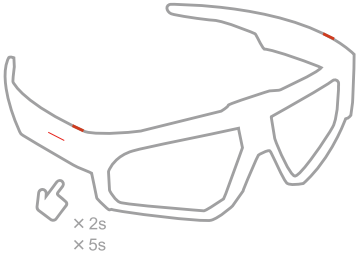
Ⓐ Cámara Ⓑ Botón físico Ⓒ Panel táctil Ⓓ Altavoz

Ⓔ Puerto de carga Ⓕ Luz de indicación de grabaMicrófono Ⓖ Microphone ⒽLuz indicadora de estado

Włączanie/wyłączanie

Włączanie: Naciśnij i przytrzymaj prawy przycisk fizyczny przez 2 sekundy
Wyłączanie: Naciśnij i przytrzymaj prawy przycisk fizyczny przez 5 sekund

(Uwaga: Urządzenie wyłączy się automatycznie po 5 minutach bez połączenia. W przypadku zerwania połączenia zaleca się ponowne uruchomienie.)



Sparuj z telefonem

Zeskanuj, aby pobrać aplikację

Jak połączyć:
Parowanie z telefonem:

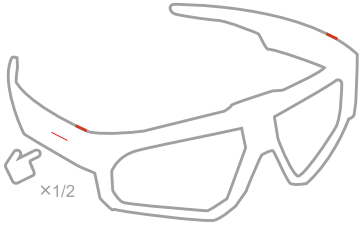
1.Włącz funkcję Bluetooth w swoim telefonie.
2.Włącz okulary, aby nawiązać połączenie I przeprowadzić parowanie przez Bluetooth;
3.Otwórz aplikację „Da Echo” (przy pierwszym uruchomieniu wymagana jest rejestracja konta), kliknij „Connecting Devices”, wybierz odpowiedni model, a

Automatyczne ponowne łączenie: Gdy urządzenie znajdzie się w zasięgu połączenia, automatycznie połączy się ponownie z urządzeniami sparowanymi wcześniej.

Wyprodukowano w Chinach

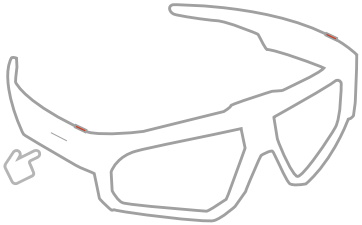
Muzyka

Odtwarzanie/Pauza: Dwukrotnie dotknij obszaru sterowania dotykowego.
Przełączanie utworów: Naciśnij i przytrzymaj obszar sterowania dotykowego przez 2 sekundy, aby przejść do następnego utworu; trzykrotnie dotknij, aby przejść do poprzedniego utworu.



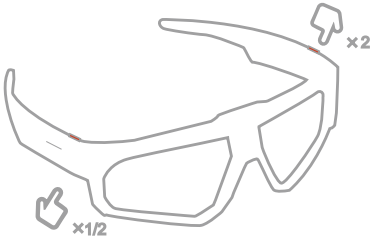
Głośność

Zwiększanie głośności: Przesuń palcem do przodu w prawej strefie dotykowej.
Zmniejszanie głośności: Przesuń palcem do tyłu w prawej strefie dotykowej.



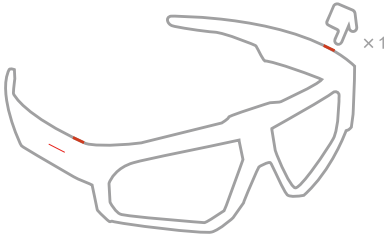
Nagrywanie zdjęć i wideo

Zrób zdjęcie: Naciśnij raz prawy przycisk fizyczny.
Nagraj wideo: Naciśnij dwa razy prawy przycisk fizyczny (gdy nie trwa połączenie ani odtwarzanie).
Zakończenie nagrywania: Naciśnij raz prawy przycisk fizyczny podczas nagrywania.
Nagrywanie dźwięku: Naciśnij dwukrotnie lewy przycisk fizyczny (gdy nie prowadzisz rozmowy ani nie odtwarzasz dźwięku).
Zakończenie nagrywania dźwięku: Naciśnij raz lewy przycisk fizyczny podczas nagrywania.



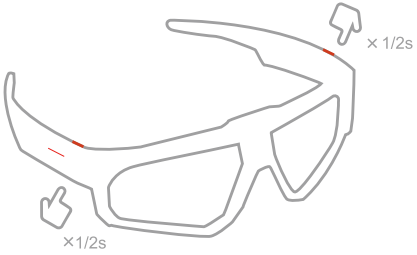
Wybudź asystenta głosowego

Asystent głosowy AI: Naciśnij raz lewy przycisk fizyczny
Mobilny asystent głosowy: Naciśnij i przytrzymaj lewy przycisk fizyczny przez 2 sekundy



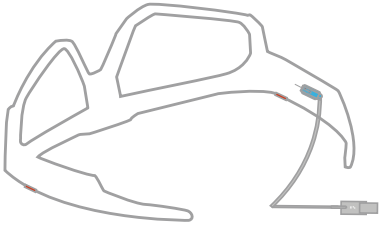
Połączenia

Odbieranie / Kończenie połączenia: Naciśnij raz lewy lub prawy przycisk fizyczny
Odrzucanie połączenia: Naciśnij i przytrzymaj lewy lub prawy przycisk fizyczny przez 2 sekundy



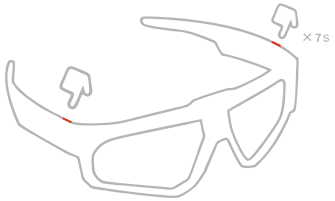
Ładowanie

Ładowanie magnetyczne: Czerwona lampka świeci się podczas ładowania; po pełnym naładowaniu zapala się niebieska lampka.



Wyczyść informacje o parowaniu

Wyczyść informacje o parowaniu: Naciśnij i przytrzymaj lewy przycisk fizyczny przez 7 sekund.
(Uwaga: Wyczyść informacje o parowaniu podłączonych urządzeń.)



Ostrzeżenie FCC

Niniejsze urządzenie jest zgodne z częścią 15 przepisów FCC. Jego działanie podlega następującym dwóm warunkom:
(1) Urządzenie to nie może powodować szkodliwych zakłóceń.
(2) Urządzenie to musi przyjmować wszelkie odbierane zakłócenia, w tym zakłócenia, które mogą powodować niepożądane działanie. Wszelkie zmiany lub modyfikacje, które nie zostały wyraźnie zatwierdzone przez podmiot odpowiedzialny za zgodność z przepisami, mogą unieważnić prawo użytkownika do obsługi tego urządzenia.
Uwaga: Niniejsze urządzenie zostało przetestowane i uznane za zgodne z limitami dla urządzeń cyfrowych klasy B, zgodnie z częścią 15 przepisów FCC. Limity te zostały opracowane w celu zapewnienia rozsądnej ochrony przed szkodliwymi zakłóceniami w instalacjach domowych. Urządzenie to generuje, wykorzystuje i może emitować energię o częstotliwości radiowej; jeśli nie zostanie zainstalowane i nie będzie użytkowane zgodnie z instrukcją, może powodować szkodliwe zakłócenia w komunikacji radiowej. Jeśli urządzenie to powoduje szkodliwe zakłócenia w odbiorze radiowym lub telewizyjnym (co można stwierdzić poprzez wyłączenie i ponowne włączenie urządzenia), zaleca się użytkownikowi podjęcie próby usunięcia zakłóceń poprzez zastosowanie jednego lub kilku z następujących środków:
Zmiana orientacji lub lokalizacji anteny odbiorczej.
Zwiększenie odległości między urządzeniem a odbiornikiem.
Podłączenie urządzenia do gniazdka w obwodzie innym niż ten, do którego podłączony jest odbiornik.
Skonsultowanie się ze sprzedawcą lub doświadczonym technikiem radiowo-telewizyjnym w celu uzyskania pomocy.
Urządzenie zostało poddane ocenie pod kątem spełnienia ogólnych wymogów dotyczących narażenia na promieniowanie RF. Urządzenie może być używane w warunkach narażenia typowych dla urządzeń przenośnych bez żadnych ograniczeń.

Ważne uwagi

1. Bezpieczeństwo ładowania: Upewnij się, że otoczenie, w którym odbywa się ładowanie, jest całkowicie suche. Ładowanie w warunkach mokrych lub wilgotnych jest surowo zabronione, aby zapobiec zagrożeniom elektrycznym.
2. Oryginalne akcesoria: Prosimy używać wyłącznie oryginalnego magnetycznego kabla ładującego dołączonego do zestawu. Zapewnia to długą żywotność baterii oraz chroni wewnętrzne układy elektroniczne.
3. Ostrożne obchodzenie się: Choć oprawki zostały wykonane z lekkich i elastycznych materiałów (takich jak Tr90), należy obchodzić się z nimi delikatnie, unikając upuszczania oraz silnych uderzeń. Jeśli produkt wykazuje jakiekolwiek oznaki uszkodzenia lub pęknięcia, należy natychmiast zaprzestać jego użytkowania, aby uniknąć obrażeń.
4. Wodoodporność: Produkt zapewnia podstawową ochronę przed zachlapaniem (IPX4/IP65). Nie jest on jednak w pełni wodoszczelny; nie należy wystawiać go na działanie ulewnego deszczu ani zanurzać w wodzie.
5. Produkt ten umożliwia nagrywanie zdjęć i filmów. Prosimy o poszanowanie prywatności innych osób oraz ścisłe przestrzeganie lokalnych przepisów i regulacji prawnych. Nieuprawnione użycie – takie jak potajemne nagrywanie – jest surowo zabronione.

Important Notes

Declaración de conformidad de la UE simplificada

Por la presente, el fabricante Shenzhen Blue Vision Corporation Ltd declara que las gafas inteligentes cumplen con la Directiva 2014/53/UE. El texto completo de la declaración de conformidad de la UE está disponible en la siguiente dirección de Internet: https://www.bomanlon.com/press

De conformidad con la Directiva 2012/9/UE sobre residuos de aparatos eléctricos y electrónicos (RAEE), la presencia del símbolo del contenedor tachado indica que este aparato no debe considerarse residuo urbano: su eliminación debe realizarse mediante recogida selectiva. Su eliminación sin separación previa puede suponer un riesgo para el medio ambiente y la salud. Este producto puede devolverse al distribuidor al adquirir un nuevo aparato. La eliminación inadecuada del aparato constituye una infracción y está sujeta a sanciones por parte de las autoridades competentes. Para más información, póngase en contacto con la administración local responsable de asuntos medioambientales.

La batería interna está integrada y no es extraíble; no debe desecharse junto con la basura doméstica. Deseche la batería únicamente en centros de recogida autorizados o puntos de recolección designados. El símbolo del contenedor de basura tachado indica que la batería está sujeta a una recogida selectiva de residuos. Una eliminación correcta ayuda a prevenir posibles efectos negativos para el medio ambiente y la salud humana. El incumplimiento de la normativa sobre la eliminación de baterías constituye una conducta ilícita y es sancionable por ley.

Manufacturer:
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Made in China

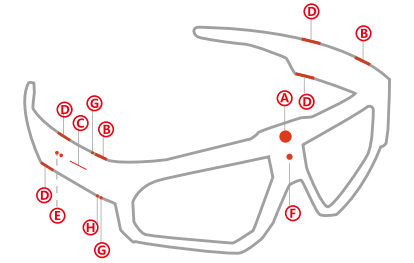
Bomanlon

BS-01

GAFAS INTELIGENTES

Manual de Usuario

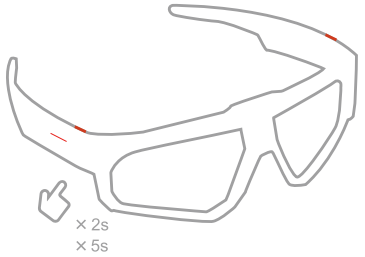
SP



Ⓐ Cámara
Ⓑ Botón físico
Ⓒ Área táctil
Ⓓ Audio
Ⓔ Puerto de carga
Ⓕ Luz de estado
Ⓖ Micrófono
Ⓗ Luz de estado

Encender/Apagar

Encender: Mantenga pulsado el botón físico derecho durante 2 segundos.
Apagar: Mantenga pulsado el botón físico derecho durante 5 segundos.
（Nota: El dispositivo se apagará automáticamente después de 5 minutos sin conexión. Si la conexión falla, se recomienda reiniciarlo).



Emparejar con el teléfono

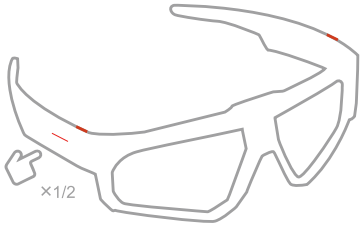
Escanee para descargar la aplicación.

Cómo enlazar
Emparejamiento del teléfono móvil:
1.Active la función Bluetooth de su teléfono móvil.
2.Encienda sus gafas para conectarlas y emparejarlas mediante Bluetooth
3.Abra la aplicación "Da Echo"
(necesita registrar una cuenta la primera vez), haga clic en "Conectar dispositivos", seleccione el modelo correspondiente y haga clic en "Conectar".

Reconexión automática: Dentro del rango de conexión, se reconectará automáticamente a los dispositivos emparejados previamente.

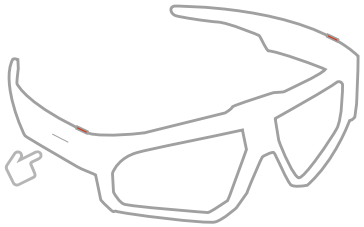
Música

Reproducir/Pausar: Toque dos veces el área de control táctil.
Cambio de música: Mantenga presionada el área de control táctil durante 2 segundos para pasar a la siguiente pista; Toque tres veces para volver a la pista anterior.



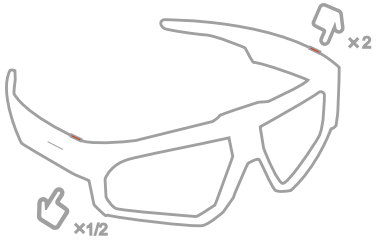
Volumen

Subir volumen: Deslice el área táctil derecha hacia adelante.
Bajar volumen: Deslice el área táctil derecha hacia atrás.



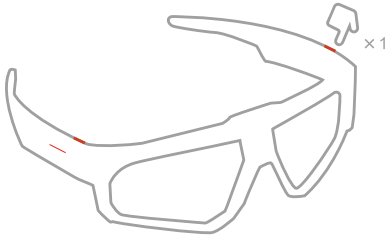
Grabación de fotos y video

Tomar foto: Presione el botón físico derecho una vez.
Grabar video: Presione el botón físico derecho dos veces (cuando no esté en una llamada o en reproducción).
Finalizar grabación: Presione el botón físico derecho una vez durante la grabación.
Grabar audio: Presione el botón físico izquierdo dos veces (cuando no esté en una llamada ni en reproducción).
Finalizar la grabación de audio: Presione el botón físico izquierdo una vez durante la grabación.



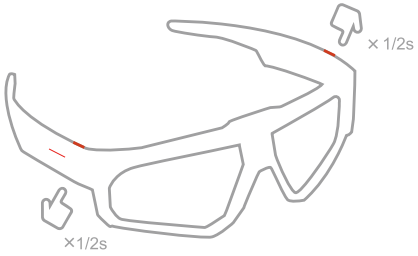
Despierta al asistente de voz

Asistente de voz con IA: Presione el botón físico izquierdo una vez.
Asistente de voz del móvil: Mantenga presionado el botón físico izquierdo durante 2 segundos.



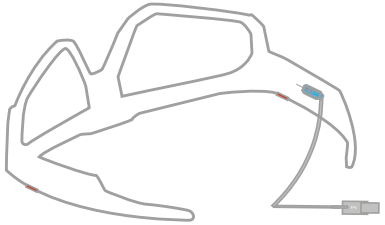
Llamadas

Responder/Finalizar llamada: Presione una vez el botón físico izquierdo o derecho.
Rechazar llamada: Mantenga presionado el botón físico izquierdo o derecho durante 2 segundos.



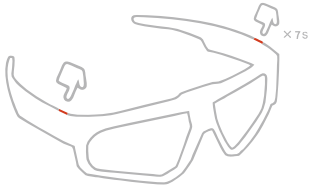
Carga de energía

Carga magnética: La luz roja permanece encendida durante la carga; cuando la carga está completa, se enciende la luz azul.



Borrar información de emparejamiento

Procedimiento de restablecimiento de fábrica:
Mantenga presionado el botón derecho durante 10 segundos. Primero escuchará un tono de notificación de apagado; una vez que suene nuevamente el tono de notificación de encendido, podrá soltar el botón para completar la operación.



Advertencia de la FCC

Este dispositivo cumple con la Parte 15 de las Normas de la FCC. Su funcionamiento está sujeto a las dos condiciones siguientes:
(1) Este dispositivo no debe causar interferencias perjudiciales.
(2) Este dispositivo debe aceptar cualquier interferencia recibida, incluidas aquellas que puedan causar un funcionamiento no deseado. Cualquier cambio o modificación no aprobado expresamente por la parte responsable del cumplimiento podría anular la autoridad del usuario para operar el equipo. Nota: Este equipo ha sido probado y se ha determinado que cumple con los límites para un dispositivo digital de Clase B, de conformidad con la Parte 15 de las Normas de la FCC. Estos límites están diseñados para proporcionar una protección razonable contra interferencias perjudiciales en una instalación residencial. Este equipo genera, utiliza y puede irradiar energía de radiofrecuencia; si no se instala y utiliza de acuerdo con las instrucciones, podría causar interferencias perjudiciales en las comunicaciones por radio. Sin embargo, no existe garantía de que no se produzcan interferencias en una instalación en particular. Si este equipo causa interferencias perjudiciales en la recepción de radio o televisión —lo cual puede determinarse apagando y encendiendo el equipo—, se recomienda al usuario que intente corregir la interferencia mediante una o más de las siguientes medidas:
Reorientar o reubicar la antena receptora.
Aumentar la separación entre el equipo y el receptor. Conectar el equipo a una toma de corriente en un circuito diferente de aquel al que está conectado el receptor. Consultar al distribuidor o a un técnico experimentado en radio/TV para obtener ayuda. El dispositivo ha sido evaluado

Notas importantes

1. Seguridad de carga: Asegúrese de que el entorno de carga esté completamente seco. Está estrictamente prohibido realizar la carga en condiciones húmedas o mojadas para evitar riesgos eléctricos.
2. Accesorios originales: Por favor, utilice únicamente el cable de carga magnético original incluido en el paquete. Esto garantiza la longevidad de la batería y protege los circuitos internos.
3. Manipulación cuidadosa: Aunque las monturas están diseñadas con materiales ligeros y flexibles (como el Tr90), deben manipularse con suavidad; evite dejarlas caer o someterlas a impactos fuertes. Si el producto presenta algún signo de daño o grietas, suspenda su uso de inmediato para evitar lesiones.
4. Resistencia al agua: El producto ofrece una protección básica contra salpicaduras (IPX4/IP65). Sin embargo, no es totalmente impermeable; no lo exponga a lluvias intensas ni lo sumerja en agua.
5. Este producto permite la grabación de fotos y videos. Por favor, respete la privacidad de los demás y cumpla estrictamente con las leyes y normativas locales. El uso no autorizado, como la grabación oculta, está estrictamente prohibido.

Notas importantes

Uproszczona deklaracja zgodności UE

Niniejszym producent Shenzhen Blue Vision Corporation td oświadcza, że inteligentne okulary są zgodne z dyrektywą 2014/53/UE. Pełny tekst deklaracji zgodności UE jest dostępny pod astępującym adresem internetowym: https://www.bomanlon.com/press

Zgodnie z dyrektywą 2012/9/UE w sprawie zużytego sprzętu elektrycznego elektronicznego (WEEE), symbol przekreślonego kosza na śmieci oznacza, że urządzenia tego nie należy traktować jak odpadów komunalnych; wymaga ono oddzielnej zbiórki w celu utylizacji. Niewłaściwa utylizacja może stanowić zagrożenie dla środowiska i zdrowia. Produkt ten można zwrócić dystrybutorowi przy zakupie nowego urządzenia. Niewłaściwe postępowanie z urządzeniem stanowi naruszenie przepisów i podlega sankcjom nakładanym przez organy odpowiedzialne za porządek publiczny. W celu uzyskania dodatkowych informacji należy skontaktować się z lokalnymi władzami odpowiedzialnymi za ochronę środowiska.

Wbudowany akumulator jest elementem zespolonym i nie podlega demontażowi; nie wolno go wyrzucać wraz z odpadami domowymi. Akumulator należy oddawać wyłącznie do autoryzowanych punktów zbiórki lub wyznaczonych miejsc gromadzenia odpadów. Symbol przekreślonego pojemnika na odpady na kółkach oznacza, że akumulator podlega selektywnej zbiórce. Prawidłowa utylizacja pomaga zapobiegać potencjalnym negatywnym skutkom dla środowiska i zdrowia ludzi. Nieprzestrzeganie przepisów dotyczących utylizacji akumulatorów stanowi naruszenie prawa i podlega karze.

Manufacturer:
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Made in China

PANTONE 2035U

152*73

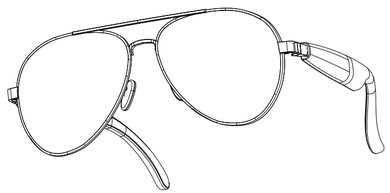
128g双铜+正反面印刷

User Manual

SMART GLASSES

BL-01 BL-02 BL-03

EN



The appearance varies across different models. The product appearance shown in the image is for reference only.

Magnetic charging

Connect the magnetic charging cable to the left and right charging posts for charging.

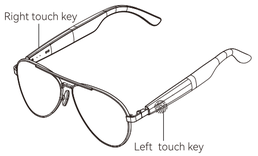
(Note: The glasses will automatically shut down when charging)



Power on/off

Power on: Press and hold the left and right touch buttons for 3 seconds to power on

Power off: Press and hold the left or right touch button for 5 seconds to power off.



Pairing

- The left and right temples will be automatically paired after powering on. Turn on the Bluetooth of your phone,search the model name accordingly to connect.
- The smart glasses will automatically shut down when charging
- The charging indicator light will turn off after charging is complete, and it will automatically turn on when the charger is unplugged.
- The connected smart glasses will automatically recognize the paired device and connect automatically.
- **Smart Glasses Operation Method**
  Pause/play:2-click the left/right touch key
  Previous song: 3-click the left touch key
  Next song:3-click the right touch key
- **Volume Up/Volume Down:**When the music is playing, press the left touch key four times to lower the volume, and press the right touch key four times to raise the volume.
- **Wake up mobile phone voice assistant:** Long press the left/right touch key for 2 seconds to turn on Siri
- **Answer/hang up the call:** Double-click the left/right touch key
- **Reject the call:** Long press the left/right touch key for 2 seconds
- **Smart sleep mode:** When the Bluetooth smart glasses are not connected to a mobile phone or other Bluetooth devices for 5 minutes, they will automatically shut down.

Important Notes

- **Charging Safety:** Ensure the charging environment is completely dry. Charging in wet or damp conditions is strictly prohibited to prevent electrical hazards.
- **Original Accessories:** Please use only the original magnetic charging cable included in the package. This ensures battery longevity and protects the internal circuitry.
- **Handle with Care:** While the frames are designed with lightweight and flexible materials, they should be handled gently to avoid dropping or heavy impact. If the product shows any signs of damage or cracking, discontinue use immediately to avoid injury.
- **Water Resistance:** The product offers basic protection against splashes (IPX4). However, it is not fully waterproof; do not expose it to heavy rain or submerge it in water.

Simplified EU declaration of conformity

Hereby, manufacturer Shenzhen Blue Vision Corporation Ltd declares that the smart glasses are in compliance with Directive 2014/53/EU. The fulltext of the EU declaration of conformity is available at the following internet address: https://www.bomanlon.com/press

Important Notes

According to Directive 2012/9/EU on waste electrical and electronic equipment (WEEE), the presence of the crossed-out bin symbol indicates that this appliance is not to be considered as urban waste: its disposal must be carried out by separate collection. Disposal in a non-separate manner may constitute a potential arm to the environment and health. This product can be returned to the distributor when purchasing a new device. Improper disposal of the appliance constitutes misconduct and is subject to sanctions by the Public Security Authority. For further information, contact the local administration responsible for environmental matters.

The internal battery is integrated and non-separable and must not be disposed of with household waste. Dispose of the battery only at authorized collection centers or designated collection points. The crossed-out wheeled bin symbol indicates that the battery is subject to separate waste collection. Correct disposal helps prevent potential negative effects on the environment and human health. Failure to comply with battery disposal regulations constitutes fraudulent conduct and is punishable by law.

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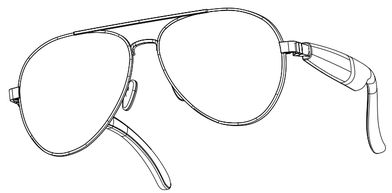
Made in China

Instrukcja obsługi

Inteligentne okulary

BL-01 BL-02 BL-03

PL



Wygląd różni się w zależności od modelu. Wygląd produktu przedstawiony na zdjęciu ma charakter wyłącznie poglądowy.

Ładowanie magnetyczne

Podłącz magnetyczny kabel ładujący do lewego i prawego gniazda ładowania w nóżkach okularów, aby rozpocząć ładowanie.

(Uwaga: Okulary wyłączą się automatycznie podczas ładowania)



Włączanie/wyłączanie

Włączanie: Naciśnij i przytrzymaj lewy oraz prawy przycisk dotykowy przez 3 sekundy, aby włączyć urządzenie.

Wyłączanie: Naciśnij i przytrzymaj lewy lub prawy przycisk dotykowy przez 5 sekund, aby wyłączyć urządzenie.



Parowanie

- Lewy i prawy zausznik zostaną automatycznie sparowane po włączeniu zasilania. Włącz funkcję Bluetooth w swoim telefonie, a następnie wyszukaj i połącz się z urządzeniem, wybierając odpowiednią nazwę modelu.
- Inteligentne okulary wyłączą się automatycznie podczas ładowania.
- Wskaźnik ładowania zgaśnie po zakończeniu procesu ładowania, a następnie automatycznie włączy się po odłączeniu ładowarki.
- Połączone inteligentne okulary automatycznie rozpoznają sparowane urządzenie i nawiążą z nim połączenie.
- **Zwiększanie/Zmniejszanie głośności:** Podczas odtwarzania muzyki naciśnij lewy przycisk dotykowy cztery razy, aby zmniejszyć głośność, oraz naciśnij prawy przycisk dotykowy cztery razy, aby zwiększyć głośność.
- **Wybudzanie asystenta głosowego:** Długie naciśnięcie lewego/prawego przycisku dotykowego przez 2 sekundy w celu wybudzenia
- **Odbieranie/Kończenie połączenia:** Dwukrotne naciśnięcie lewego/prawego przycisku dotykowego
- **Odrzucanie połączenia:** Długie naciśnięcie lewego/prawego przycisku dotykowego przez 2 sekundy
- **Inteligentny tryb uśpienia:** Jeśli inteligentne okulary Bluetooth nie są połączone z telefonem komórkowym ani innymi urządzeniami Bluetooth przez 5 minut, wyłączą się automatycznie.

- **Instrukcja obsługi inteligentnych okularów**
  Pauza/Odtwarzanie: Dwukrotne naciśnięcie lewego/prawego przycisku dotykowego
  Poprzedni utwór: Trzykrotne naciśnięcie lewego przycisku dotykowego Następny utwór: Trzykrotne naciśnięcie prawego przycisku dotykowego

Ważne uwagi

- **Bezpieczeństwo ładowania:** Upewnij się, że otoczenie, w którym odbywa się ładowanie, jest całkowicie suche. Ładowanie w warunkach mokrych lub wilgotnych jest surowo zabronione, aby zapobiec zagrożeniom elektrycznym.
- **Oryginalne akcesoria:** Prosimy używać wyłącznie oryginalnego magnetycznego kabla ładującego dołączonego do zestawu. Zapewnia to długą żywotność baterii oraz chroni wewnętrzne układy elektroniczne.
- **Ostrożne obchodzenie się:** Choć oprawki zostały wykonane z lekkich i elastycznych materiałów, należy obchodzić się z nimi delikatnie, unikając upuszczania oraz silnych uderzeń. Jeśli produkt wykazuje jakiekolwiek oznaki uszkodzenia lub pęknięcia, należy natychmiast zaprzestać jego użytkowania, aby uniknąć obrażeń
- **Wodoodporność:** Produkt zapewnia podstawową ochronę przed zachlapaniem (IPX4). Nie jest on jednak w pełni wodoszczelny; nie należy wystawiać go na działanie ulewnego deszczu ani zanurzać w wodzie.

Declaración de conformidad de la UE simplificada

Por la presente, el fabricante Shenzhen Blue Vision Corporation Ltd declara que las gafas inteligentes cumplen con la Directiva 2014/53/UE. El texto completo de la declaración de conformidad de la UE está disponible en la siguiente dirección de Internet: https://www.bomanlon.com/press

Ważne uwagi

De conformidad con la Directiva 2012/9/UE sobre residuos de aparatos eléctricos y electrónicos (RAEE), la presencia del símbolo del contenedor tachado indica que este aparato no debe considerarse residuo urbano: su eliminación debe realizarse mediante recogida selectiva. Su eliminación sin separación previa puede suponer un riesgo para el medio ambiente y la salud. Este producto puede devolverse al distribuidor al adquirir un nuevo aparato. La eliminación inadecuada del aparato constituye una infracción y está sujeta a sanciones por parte de las autoridades competentes. Para más información, póngase en contacto con la administración local responsable de asuntos medioambientales.

La batería interna está integrada y no es extraíble; no debe desecharse junto con la basura doméstica. Deseche la batería únicamente en centros de recogida autorizados o puntos de recolección designados. El símbolo del contenedor de basura tachado indica que la batería está sujeta a una recogida selectiva de residuos. Una eliminación correcta ayuda a prevenir posibles efectos negativos para el medio ambiente y la salud humana. El incumplimiento de la normativa sobre la eliminación de baterías constituye una conducta ilícita y es sancionable por ley.

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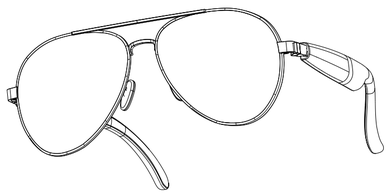
Wyprodukowano w Chinach

Manual de Usuario

GAFAS INTELIGENTES

BL-01 BL-02 BL-03

SP



El aspecto puede variar según el modelo. La imagen del producto es solo para referencia.

Carga magnética

Conecte el cable de carga magnético a los postes de carga de las patillas izquierda y derecha de las gafas para cargarlas.

(Nota: Las gafas se apagarán automáticamente durante la carga).



Encender/ Apagar

Encender: Mantenga presionados los botones táctiles izquierdo y derecho durante 3 segundos para encender.

Apagar: Mantenga presionado el botón táctil izquierdo o derecho durante 5 segundos para apagar.



Emparejamiento

- Las patillas izquierda y derecha se emparejarán automáticamente tras encender el dispositivo. Active el Bluetooth de su teléfono y busque el nombre del modelo correspondiente para conectarse.
- Las gafas inteligentes se apagarán automáticamente durante la carga.
- La luz indicadora de carga se apagará una vez finalizada la carga y se encenderá automáticamente cuando se desconecte el cargador.
- Las gafas inteligentes conectadas reconocerán automáticamente el dispositivo emparejado y se conectarán de forma automática.
- **Subir/Bajar volumen:** Mientras se reproduce música, presione la tecla táctil izquierda cuatro veces para bajar el volumen,y presione la tecla táctil derecha cuatro veces para subir el volumen.
- **Activar el asistente de voz:** Mantenga presionada la tecla táctilizquierda o derecha durante 2 segundos para activarlo.
- **Responder/Colgar llamada:** Doble clic en la tecla táctil izquierda o derecha.
- **Rechazar llamada:** Mantenga presionada la tecla táctil izquierda o derecha durante 2 segundos.
- **Modo de suspensión inteligente:** Si las gafas inteligentes Bluetooth no se conectan a un teléfono móvil u otros dispositivos Bluetooth durante 5 minutos, se apagarán automáticamente.

- **Método de funcionamiento de las gafas inteligentes**
  Pausar/Reproducir: Doble clic en la tecla táctil izquierda o derecha.
  Canción anterior: Triple clic en la tecla táctil izquierda.
  Siguiente canción: Triple clic en la tecla táctil derecha.

Notas importantes

- **Seguridad de carga:** Asegúrese de que el entorno de carga esté completamente seco. Está estrictamente prohibido realizar la carga en condiciones húmedas o mojadas para evitar riesgos eléctricos.
- **Accesorios originales:** Por favor, utilice únicamente el cable de carga magnético original incluido en el paquete. Esto garantiza la longevidad de la batería y protege los circuitos internos.
- **Manipulación cuidadosa:** Aunque las monturas están diseñadas con materiales ligeros y flexibles, deben manipularse con suavidad; evite dejarlas caer o someterlas a impactos fuertes. Si el producto presenta algún signo de daño o grietas, suspenda su uso de inmediato para evitar lesiones.
- **Resistencia al agua:** El producto ofrece una protección básica contra salpicaduras (IPX4). Sin embargo, no es totalmente impermeable; no lo exponga a lluvias intensas ni lo sumerja en agua.

Uproszczona deklaracja zgodności UE

Niniejszym producent Shenzhen Blue Vision Corporation td oświadcza, że inteligentne okulary są zgodne z dyrektywą 2014/53/UE. Pełny tekst deklaracji zgodności UE jest dostępny pod astępującym adresem internetowym: https://www.bomanlon.com/press

Notas importantes

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Wbudowany akumulator jest elementem zespolonym i nie podlega demontażowi; nie wolno go wyrzucać wraz z odpadami domowymi. Akumulator należy oddawać wyłącznie do autoryzowanych punktów zbiórki lub wyznaczonych miejsc gromadzenia odpadów. Symbol przekreślonego pojemnika na odpady na kółkach oznacza, że akumulator podlega selektywnej zbiórce. Prawidłowa utylizacja pomaga zapobiegać potencjalnym negatywnym skutkom dla środowiska i zdrowia ludzi. Nieprzestrzeganie przepisów dotyczących utylizacji akumulatorów stanowi naruszenie prawa i podlega karze.

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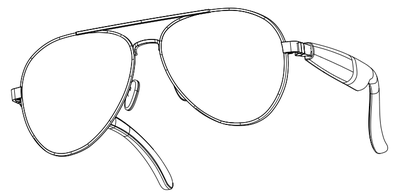
Hecho en China

Manuale d'uso

Occhiali intelligenti

BL-01 BL-02 BL-03

SUB



L'aspetto varia a seconda dei modelli. L'aspetto del prodotto mostrato nell'immagine è puramente indicativo.

Ricarica magnetica

Collegare il cavo di ricarica magnetico ai poli di ricarica sinistro e destro per ricaricare.

(Nota: gli occhiali si spegneranno automaticamente durante la ricarica)

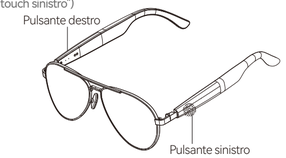


Accensione/spegnimento

Accensione: tenere premuti i tasti touch sinistro e destro per 3 secondi per accendere.

Spegnimento: tenere premuto il tasto touch sinistro o destro per 5 secondi per spegnere.

(Didascalie dell'immagine: "Tasto touch destro", "Tasto touch sinistro")



Associazione (Pairing)

- Le astine sinistra e destra si associano automaticamente dopo l'accensione. Attivare il Bluetooth del telefono e cercare il nome del modello per collegarsi.
- Gli occhiali intelligenti si spengono automaticamente durante la ricarica.
- La spia di ricarica si spegne a ricarica completata e si riaccende automaticamente quando il caricabatterie viene scollegato.
- Gli occhiali intelligenti già collegati riconoscono automaticamente il dispositivo associato e si connettono in automatico.

Modalità di utilizzo degli occhiali intelligenti:

- Pausa/riproduzione: doppio tocco sul tasto touch sinistro/destro
- Brano precedente: triplo tocco sul tasto touch sinistro
- Brano successivo: triplo tocco sul tasto touch destro
- **Aumento/diminuzione del volume:** durante la riproduzione musicale, premere quattro volte il tasto touch sinistro per abbassare il volume e quattro volte il tasto touch destro per alzarlo.
- **Attivazione dell'assistente vocale del telefono:** tenere premuto il tasto touch sinistro/destro per 2 secondi per attivare Siri.
- **Rispondere/terminare la chiamata:** doppio clic sul tasto touch sinistro/destro.
- **Rifiutare la chiamata:** tenere premuto il tasto touch sinistro/destro per 2 secondi.
- **Modalità di sospensione intelligente:** quando gli occhiali intelligenti Bluetooth non sono collegati a un telefono cellulare o ad altri dispositivi Bluetooth per 5 minuti, si spengono automaticamente.

Note importanti

- **Sicurezza di ricarica:** assicurarsi che l'ambiente di ricarica sia completamente asciutto. La ricarica in condizioni di bagnato o umidità è severamente vietata, per evitare rischi elettrici.
- **Accessori originali:** utilizzare solo il cavo di ricarica magnetico originale incluso nella confezione. Ciò garantisce la durata della batteria e protegge i circuiti interni.
- **Maneggiare con cura:** sebbene le montature siano realizzate con materiali leggeri e flessibili, devono essere maneggiate delicatamente per evitare cadute o urti violenti. Se il prodotto mostra segni di danneggiamento o crepe, smettere immediatamente di usarlo per evitare lesioni.
- **Resistenza all'acqua:** il prodotto offre una protezione di base contro gli spruzzi (IPX4). Tuttavia, non è completamente impermeabile: non esporlo a pioggia intensa e non immergerlo in acqua.

Dichiarazione di conformità UE semplificata

Con la presente, il fabbricante Shenzhen Blue Vision Corporation Ltd dichiara che gli occhiali intelligenti sono conformi alla Direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo internet: https://www.bomanlon.com/press

Smaltimento dell'apparecchio (RAEE)

Secondo la Direttiva 2012/19/UE [sic] sui rifiuti di apparecchiature elettriche ed elettroniche (RAEE), la presenza del simbolo del bidone barrato indica che questo apparecchio non deve essere considerato un rifiuto urbano: il suo smaltimento deve avvenire tramite raccolta differenziata. Lo smaltimento in modo non differenziato può costituire un potenziale danno per l'ambiente e per la salute. Questo prodotto può essere restituito al distributore al momento dell'acquisto di un nuovo dispositivo. Lo smaltimento improprio dell'apparecchio costituisce una condotta scorretta ed è soggetto a sanzioni da parte dell'Autorità di Pubblica Sicurezza. Per ulteriori informazioni, contattare l'amministrazione locale responsabile delle questioni ambientali.

Smaltimento della batteria

La batteria interna è integrata e non separabile e non deve essere smaltita con i rifiuti domestici. Smaltire la batteria solo presso centri di raccolta autorizzati o punti di raccolta designati. Il simbolo del bidone con ruote barrato indica che la batteria è soggetta a raccolta differenziata. Un corretto smaltimento aiuta a prevenire potenziali effetti negativi sull'ambiente e sulla salute umana. Il mancato rispetto delle norme sullo smaltimento delle batterie costituisce una condotta fraudolenta ed è punibile per legge.

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Fabbricato in Cina

PANTONE 2035U

152*73

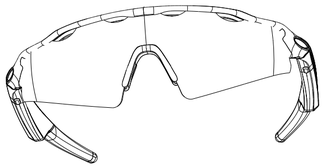
128g双铜+正反面印刷

User Manual

SMART GLASSES

BL-04

EN



Magnetic charging

Connect the magnetic charging cable to the left and right charging posts for charging.

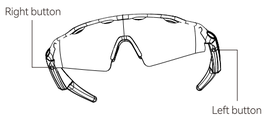
(Note: The glasses will automatically shut down when charging)



Power on/off

Power on: Press and hold the left and right touch buttons for 3 seconds to power on

Power off: Press and hold the left or right touch button for 5 seconds to power off.



Pairing

- The left and right temples will be automatically paired after powering on. Turn on the Bluetooth of your phone, search the Bluetooth name [Bomanlon BL-04], and connect.
- The smart glasses will automatically shut down when charging
- The charging indicator light will turn off after charging is complete, and it will automatically turn on when the charger is unplugged.
- The connected smart glasses will automatically recognize the paired device and connect automatically.

Smart Glasses Operation Method

Pause/Play: Short press the left/right button once
Previous song: Short press the left button twice
Next Song: Short press the right button twice

- Remote Control Phone Camera: press and hold the right button for 1 second to take a photo
- Wake up the voice assistant: Long press the left button for 2 seconds to wake up.
- Answer / Hang up the call: Short press the left /right button once
- Reject the call: Long press the left/right button for 2 seconds
- Smart sleep mode: When the Bluetooth smart glasses are not connected to a mobile phone or other Bluetooth devices for 5 minutes, they will automatically shut down.

Important Notes

- **Charging Safety:** Ensure the charging environment is completely dry. Charging in wet or damp conditions is strictly prohibited to prevent electrical hazards.
- **Original Accessories:** Please use only the original magnetic charging cable included in the package. This ensures battery longevity and protects the internal circuitry.
- **Handle with Care:** While the frames are designed with lightweight and flexible materials, they should be handled gently to avoid dropping or heavy impact. If the product shows any signs of damage or cracking, discontinue use immediately to avoid injury.
- **Water Resistance:** The product offers basic protection against splashes (IPX4). However, it is not fully waterproof; do not expose it to heavy rain or submerge it in water.

Simplified EU declaration of conformity

Hereby, manufacturer Shenzhen Blue Vision Corporation Ltd declares that the smart glasses are in compliance with Directive 2014/53/EU. The fulltext of the EU declaration of conformity is available at the following internet address: https://www.bomanlon.com/press

Important Notes

According to Directive 2012/9/EU on waste electrical and electronic equipment (WEEE), the presence of the crossed-out bin symbol indicates that this appliance is not to be considered as urban waste: its disposal must be carried out by separate collection. Disposal in a non-separate manner may constitute a potential arm to the environment and health. This product can be returned to the distributor when purchasing a new device. Improper disposal of the appliance constitutes misconduct and is subject to sanctions by the Public Security Authority. For further information, contact the local administration responsible for environmental matters.

The internal battery is integrated and non-separable and must not be disposed of with household waste. Dispose of the battery only at authorized collection centers or designated collection points. The crossed-out wheeled bin symbol indicates that the battery is subject to separate waste collection. Correct disposal helps prevent potential negative effects on the environment and human health. Failure to comply with battery disposal regulations constitutes fraudulent conduct and is punishable by law.

Manufacturer:
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Add: 509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, China.
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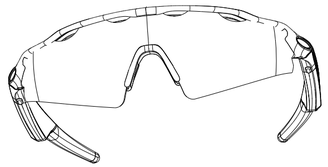
Made in China

Instrukcja obsługi

Inteligentne okulary

BL-04

PL



Ładowanie magnetyczne

Podłącz magnetyczny kabel ładujący do lewego i prawego gniazda ładowania w nóżkach okularów, aby rozpocząć ładowanie.

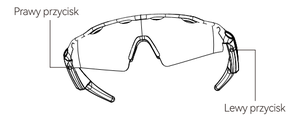
(Uwaga: Okulary wyłączą się automatycznie podczas ładowania)



Włączanie/wyłączanie

Włączanie: Naciśnij i przytrzymaj lewy oraz prawy przycisk dotykowy przez 3 sekundy, aby włączyć urządzenie.

Wyłączanie: Naciśnij i przytrzymaj lewy lub prawy przycisk dotykowy przez 5 sekund, aby wyłączyć urządzenie.



Parowanie

- Lewy i prawy zausznik zostaną automatycznie sparowane po włączeniu zasilania. Włącz funkcję Bluetooth w swoim telefonie, wyszukaj nazwę [Bomanlon BL-04] I nawiąż połączenie.
- Inteligentne okulary wyłączą się automatycznie podczas ładowania.
- Wskaźnik ładowania zgaśnie po zakończeniu procesu ładowania, a następnie automatycznie włączy się po odłączeniu ładowarki.
- Połączone inteligentne okulary automatycznie rozpoznają sparowane urządzenie i nawiążą z nim połączenie.

- **Instrukcja obsługi inteligentnych okularów**
Pauza/Odtwarzanie: Krótkie naciśnięcie lewego lub prawego przycisku (jeden raz)
Poprzedni utwór: Krótkie naciśnięcie lewego przycisku (dwa razy)
- Następny utwór: Krótkie naciśnięcie prawego przycisku (dwa razy)
- Zdalne sterowanie aparatem telefonu: Naciśnij i przytrzymaj prawy przycisk przez 1 sekundę, aby zrobić zdjęcie
- Wybudzenie asystenta głosowego: Długie naciśnięcie lewego przycisku (przez 2 sekundy) w celu wybudzenia
- Odebranie / Zakończenie połączenia: Krótkie naciśnięcie lewego lub prawego przycisku (jeden raz)
- Odrzucenie połączenia: Długie naciśnięcie lewego lub prawego przycisku (przez 2 sekundy)

Inteligentny tryb uśpienia: Jeśli inteligentne okulary Bluetooth nie zostaną połączone z telefonem komórkowym ani innym urządzeniem Bluetooth przez 5 minut, wyłączą się automatycznie.

Ważne uwagi

- **Bezpieczeństwo ładowania:** Upewnij się, że otoczenie, w którym odbywa się ładowanie, jest całkowicie suche. Ładowanie w warunkach mokrych lub wilgotnych jest surowo zabronione, aby zapobiec zagrożeniom elektrycznym.
- **Oryginalne akcesoria:** Prosimy używać wyłącznie oryginalnego magnetycznego kabla ładującego dołączonego do zestawu. Zapewnia to długą żywotność baterii oraz chroni wewnętrzne układy elektroniczne.
- **Ostrożne obchodzenie się:** Choć oprawki zostały wykonane z lekkich i elastycznych materiałów, należy obchodzić się z nimi delikatnie, unikając upuszczania oraz silnych uderzeń. Jeśli produkt wykazuje jakiekolwiek oznaki uszkodzenia lub pęknięcia, należy natychmiast zaprzestać jego użytkowania, aby uniknąć obrażeń
- **Wodoodporność:** Produkt zapewnia podstawową ochronę przed zachlapaniem (IPX4). Nie jest on jednak w pełni wodoszczelny; nie należy wystawiać go na działanie ulewnego deszczu ani zanurzać w wodzie.

Declaración de conformidad de la UE simplificada

Por la presente, el fabricante Shenzhen Blue Vision Corporation Ltd declara que las gafas inteligentes cumplen con la Directiva 2014/53/UE. El texto completo de la declaración de conformidad de la UE está disponible en la siguiente dirección de Internet: https://www.bomanlon.com/press

Ważne uwagi

De conformidad con la Directiva 2012/9/UE sobre residuos de aparatos eléctricos y electrónicos (RAEE), la presencia del símbolo del contenedor tachado indica que este aparato no debe considerarse residuo urbano: su eliminación debe realizarse mediante recogida selectiva. Su eliminación sin separación previa puede suponer un riesgo para el medio ambiente y la salud. Este producto puede devolverse al distribuidor al adquirir un nuevo aparato. La eliminación inadecuada del aparato constituye una infracción y está sujeta a sanciones por parte de las autoridades competentes. Para más información, póngase en contacto con la administración local responsable de asuntos medioambientales.

La batería interna está integrada y no es extraíble; no debe desecharse junto con la basura doméstica. Deseche la batería únicamente en centros de recogida autorizados o puntos de recolección designados. El símbolo del contenedor de basura tachado indica que la batería está sujeta a una recogida selectiva de residuos. Una eliminación correcta ayuda a prevenir posibles efectos negativos para el medio ambiente y la salud humana. El incumplimiento de la normativa sobre la eliminación de baterías constituye una conducta ilícita y es sancionable por ley.

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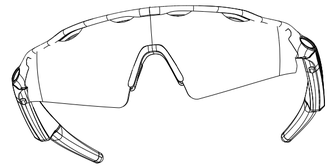
Wyprodukowano w Chinach

Manual de Usuario

GAFAS INTELIGENTES

BL-04

SP



Carga magnética

Conecte el cable de carga magnético a los postes de carga de las patillas izquierda y derecha de las gafas para cargarlas.

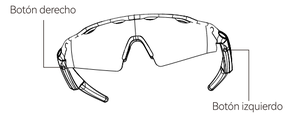
(Nota: Las gafas se apagarán automáticamente durante la carga).



Encender/ Apagar

Encender: Mantenga presionados los botones táctiles izquierdo y derecho durante 3 segundos para encender.

Apagar: Mantenga presionado el botón táctil izquierdo o derecho durante 5 segundos para apagar.



Emparejamiento

- Las patillas izquierda y derecha se emparejarán automáticamente tras encender el dispositivo. Active el Bluetooth de su teléfono, busque el nombre [Bomanlon BL-04] y conéctese.
- Las gafas inteligentes se apagarán automáticamente durante la carga.
- La luz indicadora de carga se apagará una vez finalizada la carga y se encenderá automáticamente cuando se desconecte el cargador.
- Las gafas inteligentes conectadas reconocerán automáticamente el dispositivo emparejado y se conectarán de forma automática.

- **Método de funcionamiento de las gafas inteligentes**
Pausar/Reproducir: Presione brevemente el botón izquierdo o derecho una vez.
Canción anterior: Presione brevemente el botón izquierdo dos veces.
Siguiente canción: Presione brevemente el botón derecho dos veces.

- **Control remoto de la cámara del teléfono:** Mantenga presionado el botón derecho durante 1 segundo para tomar una foto.
- **Activar el asistente de voz:** Mantenga presionado el botón izquierdo durante 2 segundos para activarlo.
- **Responder / Colgar llamada:** Presione brevemente el botón izquierdo o derecho una vez.
- **Rechazar llamada:** Mantenga presionado el botón izquierdo o derecho durante 2 segundos.
- **Modo de suspensión inteligente:** Si las gafas inteligentes Bluetooth no se conectan a un teléfono móvil u otro dispositivo Bluetooth durante 5 minutos, se apagarán automáticamente.

Notas importantes

- **Seguridad de carga:** Asegúrese de que el entorno de carga esté completamente seco. Está estrictamente prohibido realizar la carga en condiciones húmedas o mojadas para evitar riesgos eléctricos.
- **Accesorios originales:** Por favor, utilice únicamente el cable de carga magnético original incluido en el paquete. Esto garantiza la longevidad de la batería y protege los circuitos internos.
- **Manipulación cuidadosa:** Aunque las monturas están diseñadas con materiales ligeros y flexibles, deben manipularse con suavidad; evite dejarlas caer o someterlas a impactos fuertes. Si el producto presenta algún signo de daño o grietas, suspenda su uso de inmediato para evitar lesiones.
- **Resistencia al agua:** El producto ofrece una protección básica contra salpicaduras (IPX4). Sin embargo, no es totalmente impermeable; no lo exponga a lluvias intensas ni lo sumerja en agua.

Uproszczona deklaracja zgodności UE

Niniejszym producent Shenzhen Blue Vision Corporation td oświadcza, że inteligentne okulary są zgodne z dyrektywą 2014/53/UE. Pełny tekst deklaracji zgodności UE jest dostępny pod astępującym adresem internetowym: https://www.bomanlon.com/press

Notas importantes

Zgodnie z dyrektywą 2012/9/UE w sprawie zużytego sprzętu elektrycznego elektronicznego (WEEE), symbol przekreślonego kosza na śmieci oznacza, że urządzenia tego nie należy traktować jak odpadów komunalnych; wymaga ono oddzielnej zbiórki w celu utylizacji. Niewłaściwa utylizacja może stanowić zagrożenie dla środowiska i zdrowia. Produkt ten można zwrócić dystrybutorowi przy zakupie nowego urządzenia. Niewłaściwe postępowanie z urządzeniem stanowi naruszenie przepisów i podlega sankcjom nakładanym przez organy odpowiedzialne za porządek publiczny. W celu uzyskania dodatkowych informacji należy skontaktować się z lokalnymi władzami odpowiedzialnymi za ochronę środowiska.

Wbudowany akumulator jest elementem zespolonym i nie podlega demontażowi; nie wolno go wyrzucać wraz z odpadami domowymi. Akumulator należy oddawać wyłącznie do autoryzowanych punktów zbiórki lub wyznaczonych miejsc gromadzenia odpadów. Symbol przekreślonego pojemnika na odpady na kółkach oznacza, że akumulator podlega selektywnej zbiórce. Prawidłowa utylizacja pomaga zapobiegać potencjalnym negatywnym skutkom dla środowiska i zdrowia ludzi. Nieprzestrzeganie przepisów dotyczących utylizacji akumulatorów stanowi naruszenie prawa i podlega karze.

Fabricador:
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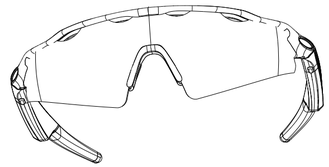
Hecho en China

User Manual

Occhiali smart

BL-04

SUB



Ricarica magnetica

Collegare il cavo di ricarica magnetico ai poli di ricarica sinistro e destro per caricare gli occhiali.

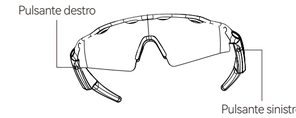
(Nota: gli occhiali si spengono automaticamente durante la ricarica.)



Accensione/spegnimento

Accensione: tenere premuti insieme i pulsanti touch sinistro e destro per 3 secondi.

Spegnimento: tenere premuto il pulsante touch sinistro o destro per 5 secondi.



Associazione

- Le stanghette sinistra e destra si associano automaticamente dopo l'accensione. Attivare il Bluetooth del telefono, cercare il nome Bluetooth [Bomanlon BL-04] e connettersi.
- Gli occhiali smart si spengono automaticamente durante la ricarica.
- La spia di ricarica si spegne a ricarica completata e si riaccende automaticamente quando il caricabatterie viene scollegato.
- Gli occhiali smart già connessi riconoscono automaticamente il dispositivo associato e si connettono in automatico.

Modalità di utilizzo degli occhiali smart

- **Pausa/Riproduzione:** pressione breve del pulsante sinistro/destro, una volta.
- **Brano precedente:** pressione breve del pulsante sinistro, due volte.
- **Brano successivo:** pressione breve del pulsante destro, due volte.
- **Controllo remoto della fotocamera del telefono:** tenere premuto il pulsante destro per 1 secondo per scattare una foto.
- **Attivazione dell'assistente vocale:** pressione lunga del pulsante sinistro per 2 secondi.
- **Rispondere/Terminare la chiamata:** pressione breve del pulsante sinistro/destro, una volta.
- **Rifiutare la chiamata:** pressione lunga del pulsante sinistro/destro per 2 secondi.
- **Modalità di sospensione intelligente:** se gli occhiali smart Bluetooth non sono collegati a un telefono o ad altri dispositivi Bluetooth per 5 minuti, si spengono automaticamente.

Avvertenze importanti

- **Sicurezza durante la ricarica:** assicurarsi che l'ambiente di ricarica sia completamente asciutto. È severamente vietato caricare in ambienti bagnati o umidi, per evitare rischi elettrici.
- **Accessori originali:** usare solo il cavo di ricarica magnetico originale incluso nella confezione. Ciò garantisce la durata della batteria e protegge i circuiti interni.
- **Maneggiare con cura:** pur essendo la montatura realizzata con materiali leggeri e flessibili, va maneggiata con delicatezza, evitando cadute o urti forti. Se il prodotto mostra segni di danni o crepe, interromperne subito l'uso per evitare lesioni.
- **Resistenza all'acqua:** il prodotto offre una protezione di base contro gli schizzi (IPX4). Non è però completamente impermeabile: non esporlo a pioggia intensa e non immergerlo in acqua.

Dichiarazione UE di conformità semplificata:

Con la presente, il produttore Shenzhen Blue Vision Corporation Ltd dichiara che gli occhiali smart sono conformi alla Direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo internet: https://www.bomanlon.com/press

Smaltimento dell'apparecchio (RAEE)

Ai sensi della Direttiva 2012/19/UE sui rifiuti di apparecchiature elettriche ed elettroniche (RAEE), il simbolo del bidone barrato indica che questo apparecchio non va considerato un rifiuto urbano: lo smaltimento deve avvenire tramite raccolta differenziata. Uno smaltimento non differenziato può costituire un potenziale danno per l'ambiente e la salute. Questo prodotto può essere restituito al distributore al momento dell'acquisto di un nuovo dispositivo. Lo smaltimento improprio dell'apparecchio costituisce una condotta illecita ed è soggetto a sanzioni da parte dell'autorità di pubblica sicurezza. Per ulteriori informazioni, contattare l'amministrazione locale competente in materia ambientale.

Smaltimento della batteria

La batteria interna è integrata e non rimovibile e non deve essere smaltita con i rifiuti domestici. Smaltire la batteria solo presso centri di raccolta autorizzati o punti di raccolta designati. Il simbolo del bidone con ruote barrato indica che la batteria è soggetta a raccolta differenziata. Un corretto smaltimento aiuta a prevenire possibili effetti negativi sull'ambiente e sulla salute umana. Il mancato rispetto delle norme sullo smaltimento delle batterie costituisce una condotta fraudolenta ed è punibile per legge.

Produttore:
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Fabbricato in Cina

PANTONE 2035U

152*73

128g双铜+正反面印刷

User Manual

SMART GLASSES

BL-05

EN



Magnetic charging

Connect the magnetic charging cable to the left and right charging posts for charging.

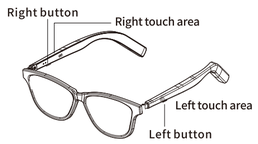
(Note: The glasses will automatically shut down when charging)



Power on/off

Power on: Press and hold the left and right touch buttons for 3 seconds to power on

Power off: Press and hold the left or right touch button for 5 seconds to power off.



Pairing

- The left and right temples will be automatically paired after powering on. Turn on the Bluetooth of your phone, search the Bluetooth name Bomanlon BL-05, and connect.
- The smart glasses will automatically shut down when charging.
- The charging indicator light will go out after charging is complete, and it will automatically turn on when the charger is unplugged.
- The connected smart glasses will automatically recognize the paired device and connect automatically.

Smart Glasses Operation Method

- **Pause/play:** Short press the left/right physical button once.
- **Previous song:** Short press the left physical button twice, or slide backward the right touch area
- **Next song:** Short press the right physical button twice, or slide forward the right touch area
- **Volume up:** Slide forward the left touch area to increase the volume, when the volume reaches its maximum, there will be a "beep" sound
- **Volume down:** Slide backward the left touch area to decrease the volume, when the volume reaches its minimum, there will be a "beep" sound.
- **Wake up the voice assistant:** Three clicks on any touch area or button.

  Answer the call: Tap the touch area or press the button on the left/right temple to answer phone calls.
- **Hang up the call:** Tap the touch area or press the button on the left/right temple to hang up the phone.
- **Reject the call:** Long press the touch area or button on the left/ right temple for 3 seconds.
- **Smart sleep mode:** When the Bluetooth smart glasses are not connected to a mobile phone or other Bluetooth devices for 5 minutes, they will automatically shut down.

Important Notes

- **Charging Safety:** Ensure the charging environment is completely dry. Charging in wet or damp conditions is strictly prohibited to prevent electrical hazards.
- **Original Accessories:** Please use only the original magnetic charging cable included in the package. This ensures battery longevity and protects the internal circuitry.
- **Handle with Care:** While the frames are designed with lightweight and flexible materials, they should be handled gently to avoid dropping or heavy impact. If the product shows any signs of damage or cracking, discontinue use immediately to avoid injury.
- **Water Resistance:** The product offers basic protection against splashes (IPX4). However, it is not fully waterproof; do not expose it to heavy rain or submerge it in water.

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Important Notes

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The internal battery is integrated and non-separable and must not be disposed of with household waste. Dispose of the battery only at authorized collection centers or designated collection points. The crossed-out wheeled bin symbol indicates that the battery is subject to separate waste collection. Correct disposal helps prevent potential negative effects on the environment and human health. Failure to comply with battery disposal regulations constitutes fraudulent conduct and is punishable by law.

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Made in China

Instrukcja obsługi

Inteligentne okulary

BL-05

PL



Ładowanie magnetyczne

Podłącz magnetyczny kabel ładujący do lewego i prawego gniazda ładowania w nóżkach okularów, aby rozpocząć ładowanie.

(Uwaga: Okulary wyłączą się automatycznie podczas ładowania)



Włączanie/wyłączanie

Włączanie: Naciśnij i przytrzymaj lewy oraz prawy przycisk dotykowy przez 3 sekundy, aby włączyć urządzenie.

Wyłączanie: Naciśnij i przytrzymaj lewy lub prawy przycisk dotykowy przez 5 sekund, aby wyłączyć urządzenie.



Parowanie

- Lewy i prawy zausznik zostaną automatycznie sparowane po włączeniu zasilania. Włącz funkcję Bluetooth w swoim telefonie, wyszukaj nazwę [Bomanlon BL-05] I nawiąż połączenie.
- Inteligentne okulary wyłączą się automatycznie podczas ładowania.
- Wskaźnik ładowania zgaśnie po zakończeniu procesu ładowania, a następnie automatycznie włączy się po odłączeniu ładowarki.
- Połączone inteligentne okulary automatycznie rozpoznają sparowane urządzenie i nawiążą z nim połączenie.

Sposób obsługi inteligentnych okularów

- **Pauza/Odtwarzanie:** Krótko naciśnij lewy lub prawy przycisk fizyczny (jeden raz).
- **Poprzedni utwór:** Krótko naciśnij lewy przycisk fizyczny dwa razy LUB przesuń palcem do tyłu w obszarze dotykowym po prawej stronie.
- **Następny utwór:** Krótko naciśnij prawy przycisk fizyczny dwa razy LUB przesuń palcem do przodu w obszarze dotykowym po prawej stronie.
- **Zwiększanie głośności:** Przesuń palcem do przodu w obszarze dotykowym po lewej stronie, aby zwiększyć głośność; po osiągnięciu maksymalnego poziomu głośności usłyszysz sygnał dźwiękowy („beep").
- **Zmniejszanie głośności:** Przesuń palcem do tyłu w obszarze dotykowym po lewej stronie, aby zmniejszyć głośność; po osiągnięciu minimalnego poziomu głośności usłyszysz sygnał dźwiękowy („beep").
- **Wybudzanie asystenta głosowego:** Trzykrotnie dotknij dowolnego obszaru dotykowego lub przycisku..
- **Odbieranie połączenia:** Dotknij obszaru dotykowego LUB naciśnij przycisk na lewym/prawym zauszniku, aby odebrać połączenie telefoniczne.
- **Kończenie połączenia:** Dotknij obszaru dotykowego LUB naciśnij przycisk na lewym/prawym zauszniku, aby zakończyć połączenie.
- **Odrzucanie połączenia:** Przytrzymaj obszar dotykowy LUB przycisk na lewym/prawym zauszniku przez 3 sekundy.

Inteligentny tryb uśpienia: Jeśli inteligentne okulary Bluetooth nie są połączone z telefonem komórkowym ani innym urządzeniem Bluetooth przez 5 minut, wyłączą się automatycznie.

Ważne uwagi

- **Bezpieczeństwo ładowania:** Upewnij się, że otoczenie, w którym odbywa się ładowanie, jest całkowicie suche. Ładowanie w warunkach mokrych lub wilgotnych jest surowo zabronione, aby zapobiec zagrożeniom elektrycznym.
- **Oryginalne akcesoria:** Prosimy używać wyłącznie oryginalnego magnetycznego kabla ładującego dołączonego do zestawu. Zapewnia to długą żywotność baterii oraz chroni wewnętrzne układy elektroniczne.
- **Ostrożne obchodzenie się:** Choć oprawki zostały wykonane z lekkich i elastycznych materiałów, należy obchodzić się z nimi delikatnie, unikając upuszczania oraz silnych uderzeń. Jeśli produkt wykazuje jakiekolwiek oznaki uszkodzenia lub pęknięcia, należy natychmiast zaprzestać jego użytkowania, aby uniknąć obrażeń
- **Wodoodporność:** Produkt zapewnia podstawową ochronę przed zachlapaniem (IPX4). Nie jest on jednak w pełni wodoszczelny; nie należy wystawiać go na działanie ulewnego deszczu ani zanurzać w wodzie.

Declaración de conformidad de la UE simplificada

Por la presente, el fabricante Shenzhen Blue Vision Corporation Ltd declara que las gafas inteligentes cumplen con la Directiva 2014/53/UE. El texto completo de la declaración de conformidad de la UE está disponible en la siguiente dirección de Internet: https://www.bomanlon.com/press

Ważne uwagi

De conformidad con la Directiva 2012/9/UE sobre residuos de aparatos eléctricos y electrónicos (RAEE), la presencia del símbolo del contenedor tachado indica que este aparato no debe considerarse residuo urbano: su eliminación debe realizarse mediante recogida selectiva. Su eliminación sin separación previa puede suponer un riesgo para el medio ambiente y la salud. Este producto puede devolverse al distribuidor al adquirir un nuevo aparato. La eliminación inadecuada del aparato constituye una infracción y está sujeta a sanciones por parte de las autoridades competentes. Para más información, póngase en contacto con la administración local responsable de asuntos medioambientales.

La batería interna está integrada y no es extraíble; no debe desecharse junto con la basura doméstica. Deseche la batería únicamente en centros de recogida autorizados o puntos de recolección designados. El símbolo del contenedor de basura tachado indica que la batería está sujeta a una recogida selectiva de residuos. Una eliminación correcta ayuda a prevenir posibles efectos negativos para el medio ambiente y la salud humana. El incumplimiento de la normativa sobre la eliminación de baterías constituye una conducta ilícita y es sancionable por ley.

Producent:

Shenzhen Blue Vision Corporation Ltd

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E-mail: service@bomanlon.com
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Wyprodukowano w Chinach

User Manual

GAFAS INTELIGENTES

BL-05

SP



Carga magnética

Conecte el cable de carga magnético a los postes de carga de las patillas izquierda y derecha de las gafas para cargarlas.

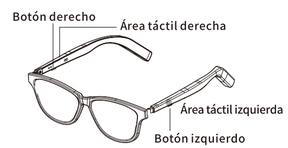
(Nota: Las gafas se apagarán automáticamente durante la carga).



Encender/ Apagar

Encender: Mantenga presionados los botones táctiles izquierdo y derecho durante 3 segundos para encender.

Apagar: Mantenga presionado el botón táctil izquierdo o derecho durante 5 segundos para apagar.



Emparejamiento

- Las patillas izquierda y derecha se emparejarán automáticamente tras encender el dispositivo. Active el Bluetooth de su teléfono, busque el nombre [Bomanlon BL-05] y conéctese.
- Las gafas inteligentes se apagarán automáticamente durante la carga.
- La luz indicadora de carga se apagará una vez finalizada la carga y se encenderá automáticamente cuando se desconecte el cargador.
- Las gafas inteligentes conectadas reconocerán automáticamente el dispositivo emparejado y se conectarán de forma automática.

Método de funcionamiento de las gafas inteligentes

- **Pausar/Reproducir:** Realice una pulsación corta (una vez) en el botón físico izquierdo o derecho.
- **Canción anterior:** Realice dos pulsaciones cortas en el botón físico izquierdo, o deslice el dedo hacia atrás en el área táctil derecha.
- **Siguiente canción:** Realice dos pulsaciones cortas en el botón físico derecho, o deslice el dedo hacia adelante en el área táctil derecha.
- **Subir volumen:** Deslice el dedo hacia adelante en el área táctil izquierda para aumentar el volumen; cuando el volumen alcance su nivel máximo, se emitirá un sonido de «bip».
- **Bajar volumen:** Deslice el dedo hacia atrás en el área táctil izquierda para disminuir el volumen; cuando el volumen alcance su nivel mínimo, se emitirá un sonido de «bip».
- **Activar el asistente de voz:** Realice tres toques en cualquier área táctil o botón.
- **Responder llamada:** Toque el área táctil o presione el botón en la patilla izquierda o derecha para responder llamadas telefónicas.
- **Colgar llamada:** Toque el área táctil o presione el botón en la patilla izquierda o derecha para finalizar la llamada.
- **Rechazar llamada:** Mantenga pulsada el área táctil o el botón en la patilla izquierda o derecha durante 3 segundos.
- **Modo de suspensión inteligente:** Si las gafas inteligentes Bluetooth no se conectan a un teléfono móvil u otro dispositivo Bluetooth durante 5 minutos, se apagarán automáticamente.

Notas importantes

- **Seguridad de carga:** Asegúrese de que el entorno de carga esté completamente seco. Está estrictamente prohibido realizar la carga en condiciones húmedas o mojadas para evitar riesgos eléctricos.
- **Accesorios originales:** Por favor, utilice únicamente el cable de carga magnético original incluido en el paquete. Esto garantiza la longevidad de la batería y protege los circuitos internos.
- **Manipulación cuidadosa:** Aunque las monturas están diseñadas con materiales ligeros y flexibles, deben manipularse con suavidad; evite dejarlas caer o someterlas a impactos fuertes. Si el producto presenta algún signo de daño o grietas, suspenda su uso de inmediato para evitar lesiones.
- **Resistencia al agua:** El producto ofrece una protección básica contra salpicaduras (IPX4). Sin embargo, no es totalmente impermeable; no lo exponga a lluvias intensas ni lo sumerja en agua.

Uproszczona deklaracja zgodności UE

Niniejszym producent Shenzhen Blue Vision Corporation td oświadcza, że inteligentne okulary są zgodne z dyrektywą 2014/53/UE. Pełny tekst deklaracji zgodności UE jest dostępny pod astępującym adresem internetowym: https://www.bomanlon.com/press

Notas importantes

Zgodnie z dyrektywą 2012/9/UE w sprawie zużytego sprzętu elektrycznego elektronicznego (WEEE), symbol przekreślonego kosza na śmieci oznacza, że urządzenia tego nie należy traktować jak odpadów komunalnych; wymaga ono oddzielnej zbiórki w celu utylizacji. Niewłaściwa utylizacja może stanowić zagrożenie dla środowiska i zdrowia. Produkt ten można zwrócić dystrybutorowi przy zakupie nowego urządzenia. Niewłaściwe postępowanie z urządzeniem stanowi naruszenie przepisów i podlega sankcjom nakładanym przez organy odpowiedzialne za porządek publiczny. W celu uzyskania dodatkowych informacji należy skontaktować się z lokalnymi władzami odpowiedzialnymi za ochronę środowiska.

Wbudowany akumulator jest elementem zespolonym i nie podlega demontażowi; nie wolno go wyrzucać wraz z odpadami domowymi. Akumulator należy oddawać wyłącznie do autoryzowanych punktów zbiórki lub wyznaczonych miejsc gromadzenia odpadów. Symbol przekreślonego pojemnika na odpady na kółkach oznacza, że akumulator podlega selektywnej zbiórce. Prawidłowa utylizacja pomaga zapobiegać potencjalnym negatywnym skutkom dla środowiska i zdrowia ludzi. Nieprzestrzeganie przepisów dotyczących utylizacji akumulatorów stanowi naruszenie prawa i podlega karze.

Fabricador:

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Hecho en China

User Manual

Occhiali smart

BL-05

SUB



Ricarica magnetica

Collegare il cavo di ricarica magnetico ai poli di ricarica sinistro e destro per caricare gli occhiali.

(Nota: gli occhiali si spengono automaticamente durante la ricarica.)



Accensione/spegnimento

Accensione: tenere premuti insieme i pulsanti touch sinistro e destro per 3 secondi.

Spegnimento: tenere premuto il pulsante touch sinistro o destro per 5 secondi.



Associazione

- Le stanghette sinistra e destra si associano automaticamente dopo l'accensione. Attivare il Bluetooth del telefono, cercare il nome Bluetooth Bomanlon BL-05 e connettersi.
- Gli occhiali smart si spengono automaticamente durante la ricarica.
- La spia di ricarica si spegne a ricarica completata e si riaccende automaticamente quando il caricabatterie viene scollegato.
- Gli occhiali smart già connessi riconoscono automaticamente il dispositivo associato e si connettono in automatico.

Modalità di utilizzo degli occhiali smart

- **Pausa/Riproduzione:** pressione breve del pulsante fisico sinistro/destro, una volta.
- **Brano precedente:** pressione breve del pulsante fisico sinistro, due volte, oppure scorrimento all'indietro sull'area touch destra.
- **Brano successivo:** pressione breve del pulsante fisico destro, due volte, oppure scorrimento in avanti sull'area touch destra.
- **Alza il volume:** scorrere in avanti sull'area touch sinistra per aumentare il volume; quando il volume raggiunge il massimo si sente un "bip".
- **Abbassa il volume:** scorrere all'indietro sull'area touch sinistra per diminuire il volume; quando il volume raggiunge il minimo si sente un "bip".
- **Attivazione dell'assistente vocale:** tre tocchi su una qualsiasi area touch o pulsante.
- **Rispondere alla chiamata:** toccare l'area touch o premere il pulsante sulla stanghetta sinistra/destra per rispondere alle chiamate.
- **Terminare la chiamata:** toccare l'area touch o premere il pulsante sulla stanghetta sinistra/destra per riagganciare.
- **Rifiutare la chiamata:** pressione lunga sull'area touch o sul pulsante della stanghetta sinistra/destra per 3 secondi.
- **Modalità di sospensione intelligente:** se gli occhiali smart Bluetooth non sono collegati a un telefono o ad altri dispositivi Bluetooth per 5 minuti, si spengono automaticamente.

Avvertenze importanti

- **Sicurezza durante la ricarica:** assicurarsi che l'ambiente di ricarica sia completamente asciutto. È severamente vietato caricare in ambienti bagnati o umidi, per evitare rischi elettrici.
- **Accessori originali:** usare solo il cavo di ricarica magnetico originale incluso nella confezione. Ciò garantisce la durata della batteria e protegge i circuiti interni.
- **Maneggiare con cura:** pur essendo la montatura realizzata con materiali leggeri e flessibili, va maneggiata con delicatezza, evitando cadute o urti forti. Se il prodotto mostra segni di danni o crepe, interromperne subito l'uso per evitare lesioni.
- **Resistenza all'acqua:** il prodotto offre una protezione di base contro gli schizzi (IPX4). Non è però completamente impermeabile: non esporlo a pioggia intensa e non immergerlo in acqua.

Dichiarazione UE di conformità semplificata

Con la presente, il produttore Shenzhen Blue Vision Corporation Ltd dichiara che gli occhiali smart sono conformi alla Direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo internet: https://www.bomanlon.com/press

Smaltimento dell'apparecchio (RAEE)

Ai sensi della Direttiva 2012/19/UE sui rifiuti di apparecchiature elettriche ed elettroniche (RAEE), il simbolo del bidone barrato indica che questo apparecchio non va considerato un rifiuto urbano: lo smaltimento deve avvenire tramite raccolta differenziata. Uno smaltimento non differenziato può costituire un potenziale danno per l'ambiente e la salute. Questo prodotto può essere restituito al distributore al momento dell'acquisto di un nuovo dispositivo. Lo smaltimento improprio dell'apparecchio costituisce una condotta illecita ed è soggetto a sanzioni da parte dell'autorità di pubblica sicurezza. Per ulteriori informazioni, contattare l'amministrazione locale competente in materia ambientale.

Smaltimento della batteria

La batteria interna è integrata e non rimovibile e non deve essere smaltita con i rifiuti domestici. Smaltire la batteria solo presso centri di raccolta autorizzati o punti di raccolta designati. Il simbolo del bidone con ruote barrato indica che la batteria è soggetta a raccolta differenziata. Un corretto smaltimento aiuta a prevenire possibili effetti negativi sull'ambiente e sulla salute umana. Il mancato rispetto delle norme sullo smaltimento delle batterie costituisce una condotta fraudolenta ed è punibile per legge.

Produttore:

Shenzhen Blue Vision Corporation Ltd

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Fabbricato in Cina

CE-LVD

TEST REPORT

Client Name	:	Shenzhen Blue Vision Corporation Limited
Address	:	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.
Product Name	:	Smart Glasses
Test Model No.	:	Bomanlon BV-01
Report No.	:	CCTI260427107S1-R1
Test Date	:	Apr. 27, 2026 to May 07, 2026
Issued Date	:	May 07, 2026

Prepared By	:	Shenzhen CCTI Technology Co., Ltd.
Address	:	A1-1, Building B1&B2, No.45 Gangtou Road, Bogang District, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Contact Info	:	Service Tel : 0086-400-188-9662
		CCTI E-mail : ccti@ccti-lab.com
		CCTI Web : www.ccti-lab.com

Scan code for report

TEST REPORT

IEC 62368-1

Audio/video, information and communication technology equipment

Part 1: Safety requirements

Report reference No ..... :	CCTI260427107S1-R1
Date of issue ..... :	May 07, 2026
Tested by (name + signature) ..... :	Nick Chan
Approved by (name + signature) ..:	Corey Mao
Total number of pages..... :	80

SHENZHEN CCTI TECHNOLOGY CO., LTD. APPROVED

Testing Laboratory..... :	Shenzhen CCTI Technology Co., Ltd.
Address..... :	A1-1, Building B1&B2, No.45 Gangtou Road, Bogang District, Shajing Street, Bao'an District, Shenzhen, Guangdong, China.
Testing location ..... :	Same as above
Applicant's name ..... :	Shenzhen Blue Vision Corporation Limited
Address..... :	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.

Test specification

Standard..... :	IEC 62368-1:2023
Test procedure ..... :	CB Scheme
Non-standard test method ..... :	N/A
Test Report Form No..... :	IEC62368_1F
TRF Originator ..... :	CCTI
Master TRF ..... :	Dated 2025-06-13

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Test item description ..... :	Smart Glasses
Trademark ..... :	BOMANLON
Manufacturer's name ..... :	Shenzhen Blue Vision Corporation Limited
Address..... :	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.

Model and/or type reference .....:	Bomanlon BV-01 Bomanlon BV-02, Bomanlon BV-03, Bomanlon BV-04, Bomanlon BV-05, Bomanlon BV-06, Bomanlon BV-07, Bomanlon BV-08, Bomanlon BV-09, Bomanlon BV-10, Bomanlon BL-01, Bomanlon BL-02, Bomanlon BL-03, Bomanlon BL-04, Bomanlon BL-05, Bomanlon BL-06, Bomanlon BL-07, Bomanlon BL-08, Bomanlon BL-09, Bomanlon BL-10, Bomanlon BL-11, Bomanlon BL-12, Bomanlon BL-13, Bomanlon BL-14, Bomanlon BL-15, Bomanlon BL-16, Bomanlon BS-01, Bomanlon BS-02, Bomanlon BS-03, Bomanlon BS-04, Bomanlon BS-05, Bomanlon BS-06, Bomanlon BS-07, Bomanlon BS-08, Bomanlon BS-09, Bomanlon BS-10
Rating(s) .....:	Input: 5V⎓ 1A

List of Attachments (including a total number of pages in each attachment):

- Attachment 1: Including 26 pages of European group differences.
- Attachment 2: Including 5 pages of Photo documentation.

Summary of testing:

The sample(s) tested complies with the requirements of IEC 62368-1:2023.

When determining the test conclusion, the Measurement Uncertainty of test has been considered.

Tests performed (name of test and test clause):	**Testing location:**
All clauses.	Shenzhen CCTI Technology Co., Ltd. A1-1, Building B1&B2, No.45 Gangtou Road, Bogang District, Shajing Street, Bao'an District, Shenzhen, Guangdong, China.

Summary of compliance with National Differences (List of countries addressed):

European group differences.

The product fulfils the requirements of **EN IEC 62368-1:2024 + A11:2024** .

Copy of marking plate:

The artwork below may be only a draft.

Smart Glasses **BOMANLON**

Model No: Bomanlon BV-01



Input: 5V⎓ 1A

Importer: XXX

Address: YYY

Manufacturer: Shenzhen Blue Vision Corporation Limited

Address : 509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.

Made In China

Remark on above marking:

1. The height of the letters is not less than 2mm, the height of the WEEE logo is not less than 7mm, height of CE mark at least 5mm, the height of other marks at least 5mm.

2. XXX means Importer name; YYY means Importer address.

Test item particulars:	
Product group ..... :	☒ end product ☐ built-in component
Classification of use by..... :	☒ Ordinary person ☒ Children likely present ☒ Instructed person ☒ Skilled person
Supply connection..... :	☐ AC mains ☐ DC mains ☒ not mains connected: ☒ ES1 ☐ ES2 ☐ ES3
Supply tolerance ..... :	☐ +10%/-10% ☐ +____%/ -_____% ☐ +20%/-15% ☒ None
Supply connection – type ..... :	☐ pluggable equipment type A - ☐ non-detachable supply cord ☐ appliance coupler ☐ direct plug-in ☐ pluggable equipment type B - ☐ non-detachable supply cord ☐ appliance coupler ☐ permanent connection ☐ mating connector ☒ other: Not directly connected to the mains
Considered current rating of protective device..... :	☒ ___A; Location: ☐ building ☐ equipment ☒ N/A
Equipment mobility..... :	☒ movable ☐ hand-held ☒ transportable ☐ direct plug-in ☐ stationary ☐ for building-in ☐ wall/ceiling-mounted ☐ SRME/rack-mounted ☐ other:
Overvoltage category (OVC) ..... :	☐ OVC I ☐ OVC II ☐ OVC III ☐ OVC IV ☒ other: Not directly connected to the mains
Class of equipment ..... :	☐ Class I ☐ Class II ☒ Class III ☐ Not classified ☐ other:
Special installation location ..... :	☒ N/A ☐ restricted access area ☐ outdoor location ☐ other:
Pollution degree (PD) ..... :	☐ PD 1 ☒ PD 2 ☐ PD 3
Manufacturer's specified T_{ma}..... :	25 ° C ☐ Outdoor: minimum ___°C
IP protection class ..... :	☒ IPX0 ☐ IP___
Power systems ..... :	☐ TN ☐ TT ☐ IT - _____ V_{L-L} ☒ not AC mains
Altitude during operation (m) ..... :	☒ 2000 m or less ☐ _____ m
Altitude of test laboratory (m) ..... :	☒ 2000 m or less ☐ _____ m
Mass of equipment (g) ..... :	0.4kg
Possible test case verdicts:	
- test case does not apply to the test object.... :	N/A
- test object does meet the requirement..... :	P (Pass)
- test object does not meet the requirement.... :	F (Fail)
Testing:	
Date of receipt of test item..... :	Apr. 27, 2026
Date (s) of performance of tests..... :	Apr. 27, 2026 to May 07, 2026

General remarks:
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. **Throughout this report a ☐ comma / ☒ point is used as the decimal separator.** The related applicable OSM decisions have been considered and the quirements found fulfilled Determination of the test result includes consideration of measurement uncertainty from the test equipment and methods.
GENERAL PRODUCT INFORMATION:
1. The EUT can be supplied by 5VDC source. It is classified as class III equipment. 2. The specified max. ambient temperature is 25°C. All series models have same electrical contact, structural, except for model number and outlook color.. All tests were performed on model Bomanlon BV-01.

OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS				
Clause	**Possible Hazard**			
5	Electrically-caused injury			
Class and Energy Source (e.g. ES3: Primary circuit)	Body Part (e.g. Ordinary)	Safeguards		
		B	S	R
ES1: Whole product	Ordinary	--	--	--
6	Electrically-caused fire			
Class and Energy Source (e.g. PS2: 100 Watt circuit)	Material part (e.g. Printed board)	Safeguards		
		B	1st S	2nd S
PS2: input port	PCB, Enclosure	Equipment safeguard	Equipment safeguard	--
PS1: Battery	PCB, Enclosure	Equipment safeguard	Equipment safeguard	--
7	Injury caused by hazardous substances			
Class and Energy Source (e.g. Ozone)	Body Part (e.g., Skilled)	Safeguards		
		B	S	R
Battery	Ordinary	N/A	N/A	Battery and their protection circuits comply with Annex M.
8	Mechanically-caused injury			
Class and Energy Source (e.g. MS3: Plastic fan blades)	Body Part (e.g. Ordinary)	Safeguards		
		B	S	R
MS1: Mass of the unit (<7 kg) and Edges and corners	Ordinary person	--	--	--
9	Thermal burn			
Class and Energy Source (e.g. TS1: Keyboard caps)	Body Part (e.g., Ordinary)	Safeguards		
		B	S	R
TS1: Accessible part	Ordinary person	--	--	--
10	Radiation			
Class and Energy Source (e.g. RS1: PMP sound output)	Body Part (e.g., Ordinary)	Safeguards		
		B	S	R
RS2: Sound pressure	Ordinary	Instructional safeguard in user manual	--	--
RS1: LED	Ordinary	--	--	--
Supplementary Information: "B" – Basic Safeguard; "S" – Supplementary Safeguard; "R" – Reinforced Safeguard				
ENERGY SOURCE DIAGRAM				

Optional. Manufacturers are to provide the energy sources diagram identify declared energy sources and identifying the demarcations are between power sources. Recommend diagram be provided included in power supply and multipart systems. Insert diagram below. Example diagram designs are; Block diagrams; image(s) with layered data; mechanical drawings
☒ **ES** ☒ **PS** ☒ **MS** ☒ **TS** ☒ **RS**

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Clause	Requirement + Test	Result - Remark	Verdict
4	**GENERAL REQUIREMENTS**		P
4.1.1	Acceptance of materials, components and subassemblies	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment.	P
4.1.2	Use of components	See table 4.1.2	P
4.1.3	Equipment design and construction	No accessible part which could cause injury	P
4.1.4	Specified ambient temperature for outdoor use (°C) ..... :		N/A
4.1.5	Constructions and components not specifically covered	No such construction.	N/A
4.1.8	Liquids, refrigerants and liquid filled components (LFCs)	No such component used.	N/A
4.1.15	Markings and instructions	(See Annex F)	P
4.4.3	Safeguard robustness		P
4.4.3.1	General		P
4.4.3.2	Steady force tests	(See Clause T.3, T.4, T.5)	P
4.4.3.3	Drop tests	(See Clause T.7)	P
4.4.3.4	Impact tests	(See Clause T.6)	N/A
4.4.3.5	Internal accessible safeguard tests	(See Clause T.3)	N/A
4.4.3.6	Glass impact tests	(See Clause T.9)	N/A
4.4.3.7	Glass fixation test		N/A
	Glass impact test (1J)	(See Clause T.9)	N/A
	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests	(See Clause T.8)	N/A
4.4.3.9	Air comprising a safeguard		N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness		N/A
4.4.4	Displacement of a safeguard by an insulating liquid		N/A
4.4.5	Safety interlocks	(See Annex K)	N/A
4.5	**Explosion**		P
4.5.1	General		P
4.5.2	No explosion during normal/abnormal operating conditions	(See Clause B.2, B.3)	P
	No harm by explosion during single fault conditions	(See Clause B.4)	P
4.6	**Fixing of conductors and conductive parts**		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Fix conductors and conductive parts not to defeat a safeguard		N/A
	Compliance is checked by test.....:	(See Clause T.2)	N/A
4.7	**Equipment for direct insertion into mains socket–outlets**		N/A
4.7.2	Mains plug part complies with relevant standard.....:		N/A
4.7.3	Torque (Nm)..... :		N/A
4.8	**Equipment containing coin or button cell batteries**		N/A
4.8.1	General		N/A
4.8.2	Instructional safeguard.....:		N/A
4.8.3	Coin or button cell battery compartment, door or cover construction		N/A
	Open torque test		N/A
4.8.4.2	Stress relief test	(See Clause T.8)	N/A
4.8.4.3	Battery replacement test		N/A
4.8.4.4	Drop test	(See Clause T.7)	N/A
4.8.4.5	Impact test	(See Clause T.6)	N/A
4.8.4.6	Crush test		N/A
4.8.5	Compliance		N/A
	30N force test with test probe		N/A
	20N force test with test hook		N/A
4.9	**Likelihood of fire or shock due to entry of conductive object**		N/A
4.10	**Component requirements**		N/A
4.10.1	Disconnect device	Class III equipment	N/A
4.10.2	Switches and relays	No such component provided	N/A
4.10.3	Mains power supply cords	(See Clause G.7)	N/A
4.10.4	Batteries and their protection circuits	(See Annex M)	N/A

5	**ELECTRICALLY-CAUSED INJURY**		P
5.2	**Classification and limits of electrical energy sources**		P
5.2.2	ES1 and ES2 limits		P
5.2.2.2	Steady-state voltage and current limits.....:	(See appended table 5.2)	P
5.2.2.3	Capacitance limits..... :	(See appended table 5.2)	N/A
5.2.2.4	Single pulse limits.....:	(See appended table 5.2)	N/A
5.2.2.5	Limits for repetitive pulses.....:	(See appended table 5.2)	N/A
5.2.2.6	Ringing signals	(See Annex H)	N/A
5.2.2.7	Audio signals	(See Clause E.1)	P
5.3	**Protection against electrical energy sources**		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons		N/A
5.3.1 a)	ES2/ES3 circuits that are not ES2/ES3 mains		N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors		N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards		N/A
	Accessibility to outdoor equipment bare parts		N/A
5.3.2.2	Contact requirements		N/A
	Test with test probe from Annex V..... :		—
5.3.2.2 a)	Air gap – electric strength test potential (V)..... :	(See appended table 5.4.9)	N/A
5.3.2.2 b)	Air gap – distance (mm) ..... :		N/A
5.3.2.3	Compliance		N/A
5.3.2.4	Terminals for connecting stripped wire		N/A
5.4	**Insulation materials and requirements**		N/A
5.4.1.2	Properties of insulating material		N/A
5.4.1.3	Compliance		N//A
	Non-hygroscopic materials	(See appended table)	N/A
5.4.1.4	Maximum operating temperature for insulating materials..... :	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	N/A
5.4.1.5	Pollution degrees..... :	2	—
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	Pollution degree 2 is applied. No insulating compound applied (however see 5.5.4).	N/A
5.4.1.5.3	Thermal cycling test	See above	N/A
5.4.1.6	Insulation in transformers with varying dimensions	No such transformer within the EUT	N/A
5.4.1.7	Insulation in circuits generating starting pulses	No such starting pulses within the EUT	N/A
5.4.1.8	Determination of working voltage..... :	(See appended table 5.4.1.8)	N/A
5.4.1.9	Insulating surfaces		N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted		N/A
5.4.1.10.2	Vicat test..... :	(See appended table 5.4.1.10.2)	N/A
5.4.1.10.3	Ball pressure test..... :	(See appended table 5.4.1.10.3)	N/A
5.4.2	Clearances	The highest value in Cl 5.4.2.2 and Cl 5.4.2.3 be used.	N/A
5.4.2.1	General requirements		N/A
	Clearances in circuits connected to AC Mains, Alternative method	(See Annex X)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.2.2	Procedure 1 for determining clearance		N/A
	Temporary overvoltage .....:		—
5.4.2.3	Procedure 2 for determining clearance		N/A
5.4.2.3.2.2	AC mains transient voltages..... :		—
5.4.2.3.2.3	DC mains transient voltages .....:		—
5.4.2.3.2.4	External circuit transient voltages.....:		—
5.4.2.3.2.5	Transient voltage determined by measurement..... :		—
5.4.2.3.3	Exceptions of determining required withstand voltage..... :		N/A
5.4.2.3.4	Determining clearances using required withstand voltage..... :	(See appended table 5.4.2, 5.4.3)	N/A
5.4.2.4	Determining the adequacy of a clearance using an electric strength test .....:	(See appended table 5.4.2, 5.4.3)	N/A
5.4.2.5	Multiplication factors for clearances and test voltages.....:	Considered for 2000m	—
5.4.2.6	Clearance measurement..... :	(See appended table 5.4.2, 5.4.3)	N/A
5.4.3	Creepage distances		N/A
5.4.3.1	General		N/A
5.4.3.3	Material group and CTI..... :		—
5.4.3.4	Creepage distances measurement..... :	(See appended table 5.4.2, 5.4.3)	N/A
5.4.4	Solid insulation		N/A
5.4.4.1	General requirements		N/A
5.4.4.2	Minimum distance through insulation ..... :	(See appended table 5.4.4.2)	N/A
5.4.4.3	Insulating compound forming solid insulation		N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Insulating compound forming cemented joints		N/A
5.4.4.6	Thin sheet material	See below	N/A
5.4.4.6.1	General requirements		N/A
5.4.4.6.2	Separable thin sheet material	(See appended table 5.4.9)	N/A
	Number of layers (pcs) .....:		N/A
5.4.4.6.3	Non-separable thin sheet material		N/A
	Number of layers (pcs) .....:		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material..... :	(See appended table 5.4.9)	N/A
5.4.4.6.5	Mandrel test		N/A
5.4.4.7	Solid insulation in wound components		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.4.9	Solid insulation at frequencies >30 kHz, E_P, K_R, d, V_{PW} (V)..... :	(See appended table 5.4.4.9)	N/A
	Alternative by electric strength test, tested voltage (V), K_R..... :	(See appended tables 5.4.4.9 and 5.4.9)	N/A
5.4.5	Antenna terminal insulation		N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test		N/A
5.4.5.3	Insulation resistance (MΩ)..... :		N/A
	Electric strength test.....:	(See appended table 5.4.9)	N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard		N/A
5.4.7	Tests for semiconductor components and for cemented joints		N/A
5.4.8	Humidity conditioning		N/A
	Relative humidity (%), temperature (°C), duration (h)..... :		—
5.4.9	Electric strength test	(See appended table 5.4.9)	N/A
5.4.10	Safeguards against transient voltages from external circuits		N/A
5.4.10.1	Parts and circuits separated from external circuits		N/A
5.4.10.2	Test methods		N/A
5.4.10.2.1	General		N/A
5.4.10.2.2	Impulse test.....:	(See appended table 5.4.9)	N/A
5.4.10.2.3	Steady-state test..... :	(See appended table 5.4.9)	N/A
5.4.10.3	Verification for insulation breakdown.....:		N/A
5.4.11	Separation between external circuits and earth		N/A
5.4.11.1	Exceptions to separation between external circuits and earth		N/A
5.4.11.2	Requirements		N/A
	Surge suppressors bridge separation between external circuit and earth		N/A
	Rated operating voltage U_{op} (V).....:		—
	Nominal voltage U_{peak} (V).....:		—
	Max increase due to variation ΔU_{sp} ..... :		—
	Max increase due to ageing ΔU_{sa} ..... :		—
5.4.11.3	Test method and compliance.....:	(See appended table 5.4.9)	N/A
	Test voltage (V) of additional test.....:		—
	Measured current (mA) of additional test.....:		N/A
5.4.12	Insulating liquid		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.12.1	General requirements		N/A
5.4.12.2	Electric strength of an insulating liquid.....:	(See appended table 5.4.9)	N/A
5.4.12.3	Compatibility of an insulating liquid		N/A
	Thermal classification of IEC 60085..... :		—
5.4.12.4	Container for insulating liquid		N/A
5.5	**Components as safeguards**		N/A
5.5.1	General		N/A
5.5.2	Capacitors and RC units	Approved optocoupler used. Requirements of G.12 met, see table 4.1.2 for listed component used.	N/A
5.5.2.1	General requirement		N/A
5.5.2.2	Capacitor discharge after disconnection of a connector.....:	(See appended table 5.5.2.2)	N/A
5.5.3	Transformers	(See Clause G.5.3)	N/A
5.5.4	Optocouplers	(See Clause 5.4 or Clause G.12)	N/A
5.5.5	Relays	(See Clause 5.4)	N/A
5.5.6	Resistors	(See Clause G.10)	N/A
	Application type of resistors..... :		—
5.5.7	Surge suppressors	(See Clause G.8)	N/A
	GDT.....:		N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable.....:		N/A
	Insulation resistance (MΩ)..... :		N/A
	Electric strength test.....:	(See appended table 5.4.9)	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment		N/A
	RCD rated residual operating current (mA).....:		—
5.6	**Protective conductor**		N/A
5.6.2	Requirements for protective conductors		N/A
5.6.2.1	General requirements		N/A
5.6.2.2	Colour of insulation		N/A
5.6.3	Requirements for protective earthing conductors		N/A
	Protective earthing conductor size (mm^2) ..... :		—
	Protective earthing conductor serving as a reinforced safeguard		N/A
	Protective earthing conductor serving as a double safeguard		N/A
5.6.4	Requirements for protective bonding conductors		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.6.4.1	Protective bonding conductors		—
	Protective bonding conductor size (mm^2).....:		—
5.6.4.2	Protective current rating (A)..... :		—
5.6.5	Terminals for protective conductors		N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)..... :		N/A
	Terminal size for connecting protective bonding conductors (mm).....:		N/A
	Relevant IEC standard.....:		N/A
5.6.5.2	Corrosion		N/A
5.6.6	Resistance of the protective bonding system		N/A
5.6.6.1	Requirements		N/A
5.6.6.2	Test method.....:	(See appended table 5.6.6)	N/A
5.6.6.3	Resistance (Ω) or voltage drop.....:	(See appended table 5.6.6)	N/A
5.6.7	Reliable connection of a protective earthing conductor		N/A
5.6.8	Functional earthing		N/A
	Conductor size (mm^2)..... :		N/A
	Class II with functional earthing marking ..... :		N/A
	Appliance inlet cl & cr (mm)..... :		N/A
5.7	**Prospective touch voltage, touch current and protective conductor current**		N/A
5.7.2	Measuring devices and networks		N/A
5.7.2.1	Measurement of touch current		N/A
5.7.2.2	Measurement of voltage		N/A
5.7.3	Equipment set-up, supply connections and earth connections		N/A
5.7.4	Unearthed accessible parts.....:	(See appended table 5.7.4)	N/A
5.7.5	Earthed accessible conductive parts..... :	(See appended table 5.7.5)	N/A
5.7.6	Requirements when touch current exceeds ES2 limits		N/A
	Protective conductor current (mA)..... :		N/A
	Instructional Safeguard.....:		N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits		N/A
5.7.7.1	Touch current from coaxial cables		N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables		N/A
5.7.8	Summation of touch currents from external circuits		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	a) Equipment connected to an earthed external circuit, current (mA)..... :		N/A
	b) Equipment connected to an unearthed external circuit, current (mA)..... :		N/A
5.8	**Backfeed safeguard in battery backed up supplies**		N/A
	Mains terminal ES..... :	(See appended table 5.8)	N/A
	Air gap (mm)..... :	(See appended table 5.4.2, 5.4.3)	N/A
6	**ELECTRICALLY- CAUSED FIRE**		P
6.2	**Classification of power sources and potential ignition sources**		P
6.2.2	Power source circuit classifications..... :	(See appended table 6.2.2)	P
6.2.3	Classification of potential ignition sources		P
6.2.3.1	Arcing PIS ..... :	(See appended table 6.2.3.1)	N/A
6.2.3.2	Resistive PIS ..... :	(See appended table 6.2.3.2)	P
6.3	**Safeguards against fire under normal operating and abnormal operating conditions**		P
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials..... :	(See appended table 5.4.1.4, 9.3, B.1.5 and B.2.6)	P
	Combustible materials not inside a fire enclosure..... :	No ignition and no such temperature attained within the equipment. (See appended table 5.4.1.4, 6.3.2, 9.0, B.2.6)	N/A
6.4	**Safeguards against fire under single fault conditions**		P
6.4.1	Safeguard method..... :	Control of fire spread	—
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits		N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	Method by control of fire spread applied as 6.4.1.	N/A
6.4.3.1	Supplementary safeguards		N/A
6.4.3.2	Single fault conditions..... :	(See appended table B.4)	N/A
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits		N/A
6.4.5	Control of fire spread in PS2 circuits		P

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Clause	Requirement + Test	Result - Remark	Verdict
6.4.5.2	Supplementary safeguards	Compliance detailed as follows: Printed board: rated min. V-0 All other components: at least V-2 except for parts mounted on min. V-1 material or small parts of combustible material (with mass less than 4g) or components complying to relevant IEC standard. Fire enclosure: V-0	P
6.4.6	Control of fire spread in PS3 circuits		N/A
6.4.7	Separation of combustible materials from a PIS		N/A
6.4.7.2	Separation by distance		N/A
6.4.7.3	Separation by a fire barrier		N/A
6.4.8	Fire enclosures and fire barriers	See below.	N/A
6.4.8.2	Fire enclosure and fire barrier material properties	The V-0 material is used for the fire enclosure (overall enclosure).	N/A
6.4.8.2.1	Requirements for a fire barrier	No fire barrier used.	N/A
6.4.8.2.2	Requirements for a fire enclosure		N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier		N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings in fire enclosure.	N/A
6.4.8.3.2	Fire barrier dimensions		N/A
6.4.8.3.3	Top openings and properties	No openings	N/A
	Openings dimensions (mm)..... :		N/A
	Flammability tests for the top of a fire enclosure	(See Clause S.2)	N/A
6.4.8.3.4	Bottom openings and properties		N/A
	Openings dimensions (mm)..... :		N/A
	Flammability tests for the bottom of a fire enclosure	(See Clause S.3)	N/A
	Instructional Safeguard..... :		N/A
6.4.8.3.5	Side openings and properties		N/A
	Openings dimensions (mm)..... :		N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)..... :		N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating..... :		N/A
6.4.9	Flammability of insulating liquid		N/A
	Auto ignition temperature (°C)..... :		N/A
	Flashpoint temperature (°C)..... :		N/A
6.5	**Internal and external wiring**		P

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Clause	Requirement + Test	Result - Remark	Verdict
6.5.1	General requirements		P
6.5.2	Requirements for interconnection to building wiring ..... :		N/A
6.5.3	Internal wiring size (mm^2) for socket-outlets.....:		N/A
6.6	**Safeguards against fire due to the connection to additional equipment**		P
7	**INJURY CAUSED BY HAZARDOUS SUBSTANCES**		P
7.2	**Reduction of exposure to hazardous substances**		P
7.3	**Ozone exposure**		N/A
7.4	**Use of personal safeguards or personal protective equipment (PPE)**		N/A
	Personal safeguards and instructions..... :		—
7.5	**Use of instructional safeguards and instructions**		N/A
	Instructional safeguard (ISO 7010)..... :		—
8	**MECHANICALLY-CAUSED INJURY**		P
8.2	**Mechanical energy source classifications**		P
8.3	**Safeguards against mechanical energy sources**		N/A
8.4	**Safeguards against parts with sharp edges and corners**		N/A
8.4.1	Requirements		N/A
	Instructional Safeguard.....:		N/A
8.4.2	Compliance criteria	No sharp edges or corners	N/A
8.5	**Safeguards against moving parts**		N/A
8.5.1	Requirements	no hazardous moving parts	N/A
	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts		N/A
	MS2 or MS3 part required to be accessible for the function of the equipment		N/A
	A manually activated stopping device for moving MS3		N/A
	Moving MS3 parts only accessible to skilled person		N/A
8.5.2	Instructional safeguard.....:		N/A
8.5.4	Special categories of equipment containing moving parts		N/A
8.5.4.1	General		N/A
8.5.4.2	Equipment containing work cells with MS3 parts		N/A
8.5.4.2.1	Protection of persons in the work cell		N/A
8.5.4.2.2	Access protection override		N/A
8.5.4.2.2.1	Override system		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
8.5.4.2.2.2	Visual indicator		N/A
8.5.4.2.3	Emergency stop system		N/A
	Maximum stopping distance from the point of activation (m)....:		N/A
	Space between end point and nearest fixed mechanical part (mm)..... :		N/A
8.5.4.2.4	Endurance requirements		N/A
	Mechanical system subjected to 100 000 cycles of operation		N/A
	- Mechanical function check and visual inspection		N/A
	- Cable assembly....:		N/A
8.5.4.3	Equipment having electromechanical device for destruction of media		N/A
8.5.4.3.1	Equipment safeguards		N/A
8.5.4.3.2	Instructional safeguards against moving parts..... :		N/A
8.5.4.3.3	Disconnection from the supply		N/A
8.5.4.3.4	Cut type and test force (N)..... :		N/A
8.5.4.3.5	Compliance		N/A
8.5.5	High pressure lamps		N/A
	Explosion test....:		N/A
8.5.5.3	Glass particles dimensions (mm)..... :		N/A
8.6	**Stability of equipment**		N/A
8.6.1	Requirements		N/A
	Instructional safeguard for MS2 and MS3 television sets....:		N/A
8.6.2	Static stability		N/A
8.6.2.2	Static stability test....:		N/A
8.6.2.3	Downward force test		N/A
8.6.3	Relocation stability		N/A
	Wheels diameter (mm)..... :		—
	Tilt test		N/A
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test..... :		N/A
8.7	**Equipment mounted to wall, ceiling or other structure**		N/A
8.7.1	Requirements		N/A
	Mount means type....:	Equipment mounted to wall	N/A
8.7.2	Test methods		N/A
	Test 1, additional downwards force (N)..... :		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Horizontal force to a wall or another structure		N/A
	Test 2, number of attachment points and test force (N)....:		N/A
	Test 3, nominal diameter (mm) and applied torque (Nm)....:		N/A
8.8	**Handles strength**		N/A
8.8.1	General		N/A
8.8.2	Handle strength test		N/A
	Number of handles....:		—
	Weight applied (kg)....:		—
8.9	**Wheels or casters attachment requirements**		N/A
8.9.2	Pull test		N/A
8.10	**Carts, stands and similar carriers**		N/A
8.10.1	General		N/A
8.10.2	Marking and instructions....:		N/A
8.10.3	Cart, stand or carrier loading test		N/A
	Loading force applied (N)....:		N/A
8.10.4	Cart, stand or carrier impact test	(See Clause T.6)	N/A
	Loading force applied (N) on each supporting surface....:		N/A
8.10.5	Mechanical stability		N/A
	Force applied (N)....:		N/A
8.10.6	Thermoplastic temperature stability	(See Clause T.8)	N/A
8.11	**Mounting means for slide-rail mounted equipment (SRME)**		N/A
8.11.1	General		N/A
8.11.2	Requirements		N/A
	Instructional Safeguard....:		N/A
8.11.3	Mechanical strength test		N/A
8.11.3.1	Downward force test, force applied (N)....:		N/A
8.11.3.2	Lateral push force test		N/A
8.11.3.3	Integrity of slide rail end stops		N/A
8.11.4	Compliance criteria		N/A
8.12	**Telescoping or rod antennas**		N/A
	No sharp edges or points		N/A
	Button/ball diameter (mm)....:		—
9	**THERMAL BURN INJURY**		P

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Clause	Requirement + Test	Result - Remark	Verdict
9.2	**Thermal energy source classifications**		P
9.3	**Touch temperature limits**		P
9.3.1	Touch temperatures of accessible parts.....:	TS1	P
9.3.2	Test method and compliance		P
9.4	**Safeguards against thermal energy sources**		N/A
9.5	**Requirements for safeguards**		N/A
9.5.1	Equipment safeguard		N/A
9.5.2	Instructional safeguard.....:		N/A
9.6	**Requirements for wireless power transmitters**		N/A
9.6.1	General		N/A
9.6.2	Specification of the foreign objects		N/A
9.6.3	Test method and compliance criteria.....:	(See appended table 9.6)	N/A
10	**RADIATION**		P
10.2	**Radiation energy source classifications**		N/A
10.2.1	General classification		N/A
	Lasers.....:		—
	Lamps and lamp systems.....:		—
	Image projectors.....:		—
	X-Ray.....:		—
	Personal music player.....:		—
10.3	**Safeguards against laser radiation**		N/A
	The standard(s) equipment containing laser(s) comply.....:		N/A
10.4	**Safeguards against optical radiation from lamps and lamp systems (including LED types)**		P
10.4.1	General requirements	LED indicator classified as Exempt Group	P
	Instructional safeguard provided for accessible radiation level needs to exceed		N/A
	Risk group marking and location.....:		N/A
	Information for safe operation and installation		N/A
10.4.2	Requirements for equipment safeguards		N/A
	UV radiation exposure.....:	(See Annex C)	N/A
10.4.3	Instructional safeguard.....:		N/A
10.5	**Safeguards against X-radiation**		N/A
10.5.1	Requirements		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Instructional safeguard for skilled persons..... :		—
10.5.3	Maximum radiation (pA/kg)..... :	(See appended tables B.3 & B.4)	—
10.6	**Safeguards against acoustic energy sources**		N/A
10.6.1	General		N/A
10.6.2	Classification		N/A
	Acoustic output $L_{Aeq,T}$, dB(A)..... :		N/A
	Unweighted RMS output voltage (mV)..... :		N/A
	Digital output signal (dBFS)..... :		N/A
10.6.3	Requirements for dose-based systems		N/A
10.6.3.1	General requirements		N/A
10.6.3.2	Dose-based warning and automatic decrease		N/A
10.6.3.3	Exposure-based warning and requirements		N/A
	30 s integrated exposure level (MEL30)..... :		N/A
	Warning for MEL ≥ 100 dB(A)..... :		N/A
10.6.4	Measurement methods		N/A
10.6.5	Protection of persons		N/A
	Instructional safeguards..... :		N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)		N/A
10.6.6.1	Corded listening devices with analogue input		N/A
	Listening device input voltage (mV)..... :		N/A
10.6.6.2	Corded listening devices with digital input		N/A
	Max. acoustic output $L_{Aeq,T}$, dB(A)..... :		N/A
10.6.6.3	Cordless listening devices		N/A
	Max. acoustic output $L_{Aeq,T}$, dB(A)..... :		N/A
B	**NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS**		P
B.1	**General**		P
B.1.5	Temperature measurement conditions	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	P
B.1.6	Specific output conditions		P
B.2	**Normal operating conditions**		P
B.2.1	General requirements..... :	(See Test Item Particulars and appended test tables)	P
	Audio Amplifiers and equipment containing an audio amplifiers..... :	(See Annex E)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
B.2.3	Supply voltage and tolerances		P
B.2.5	Input test.....:	(See appended table B.2.5) (See Clause E.3 for audio amplifier)	P
B.2.6.4	Equipment intended for building-in or rack-mounting		N/A
B.3	**Simulated abnormal operating conditions**		P
B.3.1	General		P
B.3.2	Covering of ventilation openings		N/A
	Instructional safeguard.....:		N/A
B.3.3	DC mains polarity test		N/A
B.3.4	Setting of voltage selector		N/A
B.3.5	Maximum load at output terminals		N/A
B.3.6	Reverse battery polarity		N/A
B.3.7	Audio amplifier abnormal operating conditions	(See Clause E.3.2)	P
B.3.8	Safeguards functional during and after abnormal operating conditions.....:	(See appended table B.3, B.4)	P
B.4	**Simulated single fault conditions**		P
B.4.1	General		P
B.4.2	Temperature controlling device		N/A
B.4.3	Blocked motor test		N/A
B.4.4	Functional insulation		P
B.4.4.1	Short circuit of clearances for functional insulation		P
B.4.4.2	Short circuit of creepage distances for functional insulation		P
B.4.4.3	Short circuit of functional insulation on coated printed boards		N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors		N/A
B.4.6	Short circuit or disconnection of passive components		P
B.4.7	Continuous operation of components		P
B.4.8	Compliance criteria during and after single fault conditions.....:	(See appended table B.3, B.4)	P
B.4.9	Battery charging and discharging under single fault conditions	(See Annex M)	P
C	**UV RADIATION**		N/A
C.1	**Protection of materials in equipment from UV radiation**		N/A
C.1.2	Requirements		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
C.1.3	Test method and compliance criteria		N/A
C.2	**UV light conditioning test**		N/A
C.2.1	Test apparatus..... :		N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure test		N/A
C.2.4	Xenon-arc light-exposure test		N/A
D	**TEST GENERATORS**		N/A
D.1	**Impulse test generators**		N/A
D.2	**Antenna interface test generator**		N/A
D.3	**Electronic pulse generator**		N/A
E	**TEST CONDITIONS FOR EQUIPMENT INTENDED TO AMPLIFY AUDIO SIGNALS**		P
E.1	**Electrical energy source classification for audio signals**		P
	Maximum non-clipped output power (W)..... :		—
	Rated load impedance (Ω) ..... :		—
	Open-circuit output voltage (V)..... :		—
	Instructional safeguard..... :		—
E.2	**Audio signals used during test**		N/A
E.2.1	Pink noise test signal		N/A
E.2.2	Sine-wave signal		N/A
E.3	**Operating conditions of equipment containing an audio amplifier**		P
E.3.1	Normal operating conditions	(See appended table B.2.5, E.3.1)	P
E.3.2	Abnormal operating conditions	(See appended table B.3, B.4)	P
E.3.3	Audio equipment temperature measurement conditions..... :		P
F	**EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS**		P
F.1	**General**		P
	Language ..... :	English	—
F.2	**Letter symbols and graphical symbols**		P
F.2.1	Letter symbols according to IEC 60027-1		P
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific		P
F.3	**Equipment markings**		P
F.3.1	Equipment marking locations		P

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Clause	Requirement + Test	Result - Remark	Verdict
F.3.2	Equipment identification markings		P
F.3.2.1	Manufacturer identification .....:	See marking plate	P
F.3.2.2	Model identification .....:	See marking plate	P
F.3.3	Equipment rating markings		P
F.3.3.1	Equipment with direct connection to mains		N/A
F.3.3.2	Equipment without direct connection to mains		P
F.3.3.3	Nature of the supply voltage..... :	See marking plate	P
F.3.3.4	Rated voltage..... :	See marking plate	P
F.3.3.5	Rated frequency.....:		P
F.3.3.6	Rated current or rated power.....:	See marking plate	P
F.3.3.7	Equipment with multiple supply connections		P
F.3.4	Voltage setting device		N/A
F.3.5	Markings on terminals and operating devices	See below	P
F.3.5.1	Mains appliance outlet and socket-outlet markings :		N/A
F.3.5.2	Switch position identification marking.....:		P
F.3.5.3	Replacement fuse identification and rating markings.....:		N/A
	Instructional safeguards for neutral fuse.....:		N/A
F.3.5.4	Replacement battery identification marking..... :	(See Clause M.10)	N/A
F.3.5.5	Neutral conductor terminal		N/A
F.3.5.6	Terminal marking location		P
F.3.6	Equipment markings related to equipment classification		N/A
F.3.6.1	Class I equipment		N/A
F.3.6.1.1	Protective earthing conductor terminal.....:		N/A
F.3.6.1.2	Protective bonding conductor terminals .....:		N/A
F.3.6.2	Equipment class marking..... :		N/A
F.3.6.3	Functional earthing terminal marking..... :		N/A
F.3.7	Equipment IP rating marking.....:	IPX0	N/A
F.3.8	External power supply unit output marking.....:		N/A
F.3.9	Durability, legibility and permanence of markings	Marking plate was provided on the enclosure and it was legible, permanent and easily discernible.	P

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Clause	Requirement + Test	Result - Remark	Verdict
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec. With the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible.	P
F.4	**Instructions**		P
	– Information prior to installation and initial use		P
	– Equipment for use in locations where children not likely to be present		N/A
	– Instructions for installation and interconnection		P
	– Equipment intended for use only in restricted access area		N/A
	– Equipment intended to be fastened in place		N/A
	– Instructions for audio equipment terminals		N/A
	– Protective earthing used as a safeguard		N/A
	– Protective conductor current exceeding ES2 limits		N/A
	– Graphic symbols used on equipment		P
	– Permanently connected equipment not provided with all-pole mains switch		N/A
	– Replaceable components or modules providing safeguard function		N/A
	– Equipment containing insulating liquid		N/A
	– Installation instructions for outdoor equipment		N/A
F.5	Instructional safeguards		N/A
G	**COMPONENTS**		P
G.1	**Switches**		N/A
G.1.1	General	No switch used.	N/A
G.1.2	Ratings, endurance, spacing, maximum load		N/A
G.1.3	Test method and compliance criteria		N/A
G.2	**Relays**		N/A
G.2.1	Requirements and compliance criteria	No switch used.	N/A
G.2.2	Overload test		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.2.3	Relay controlling connectors supplying power to other equipment		N/A
G.2.4	Test method and compliance criteria		N/A
G.3	**Protective devices**		N/A
G.3.1	Thermal cut-offs	No thermal cut-off used.	N/A
	Thermal cut-outs separately approved according to IEC 60730-1 with conditions indicated in a) & b)		N/A
	Thermal cut-outs tested as part of the equipment as indicated in c)		N/A
G.3.1.2	Test method and compliance criteria		N/A
G.3.2	Thermal links		N/A
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics		N/A
	b) Thermal links tested as part of the equipment		N/A
G.3.2.2	Test method and compliance criteria		N/A
G.3.3	PTC thermistors		N/A
G.3.4	Overcurrent protection devices		N/A
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4		N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided		N/A
G.3.5.2	Single faults conditions..... :	(See appended table B.3, B.4)	N/A
G.4	**Connectors**		N/A
G.4.1	Spacings	See below	N/A
G.4.2	Mains connectors configuration.....:		N/A
G.4.3	Plug is shaped that insertion into mains socket-outlets or appliance coupler is unlikely		N/A
G.5	**Wound components**		N/A
G.5.1	Wire insulation in wound components		N/A
G.5.1.2	Protection against mechanical stress		N/A
G.5.2	Endurance test		N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test		N/A
	Test time (days per cycle)..... :		—
	Test temperature (°C)..... :		—
G.5.2.3	Wound components supplied from the mains		N/A
G.5.2.4	Compliance criteria		N/A
G.5.3	Transformers		N/A
G.5.3.1	General		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Compliance method.....:	See table 4.1.2	N/A
G.5.3.2	Insulation		N/A
	Protection from displacement of windings..... :		—
G.5.3.3	Transformer overload tests		N/A
G.5.3.3.1	Test conditions		N/A
	Position.....:		N/A
	Method of protection.....:		N/A
G.5.3.3.2	Winding temperatures		N/A
G.5.3.3.3	Winding temperatures - alternative test method		N/A
G.5.3.4	Transformers using FIW		N/A
G.5.3.4.1	General		N/A
	FIW wire nominal diameter.....:		—
G.5.3.4.2	Transformers with basic insulation only		N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation..... :		N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core		N/A
G.5.3.4.5	Thermal cycling test and compliance		N/A
G.5.3.4.6	Partial discharge test		N/A
G.5.4	Motors		P
G.5.4.1	General requirements		P
G.5.4.2	Motor overload test conditions		P
G.5.4.3	Running overload test		N/A
G.5.4.4	Locked-rotor overload test		P
	Test duration (days) ..... :		—
	Electric strength test.....:	(See appended table 5.4.9)	N/A
G.5.4.5	Running overload test for DC motors		N/A
G.5.4.5.2	Tested in the unit		N/A
	Electric strength test.....:	(See appended table 5.4.9)	N/A
G.5.4.5.3	Alternative method		N/A
	Electric strength test.....:	(See appended table 5.4.9)	N/A
G.5.4.6	Locked-rotor overload test for DC motors		N/A
G.5.4.6.2	Tested in the unit		N/A
	Maximum Temperature (°C)..... :		N/A
	Electric strength test.....:	(See appended table 5.4.9)	N/A
G.5.4.6.3	Alternative method		N/A
	Electric strength test.....:	(See appended table 5.4.9)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.5.4.7	Motors with capacitors		N/A
G.5.4.8	Three-phase motors		N/A
G.5.4.9	Series motors		N/A
	Operating voltage (V)..... :		—
G.6	**Wire Insulation**		N/A
G.6.1	General		N/A
G.6.2	Enamelled winding wire insulation		N/A
G.7	**Mains power supply cords and interconnection cables**		N/A
G.7.1	General requirements		N/A
	Type..... :		—
G.7.2	Cross sectional area (mm^2 or AWG)..... :		N/A
G.7.3	Cord anchorages and strain relief		N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements		N/A
	Strain relief test force (N)..... :		N/A
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm)..... :		N/A
G.7.3.2.4	Strain relief and cord anchorage material		N/A
G.7.4	Cord Entry		N/A
G.7.5	Non-detachable cord bend protection		N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Test method and compliance criteria		N/A
	Overall diameter or minor overall dimension, *D* (mm)..... :		—
	Radius of curvature after test (mm)..... :		—
G.7.6	Supply wiring space		N/A
G.7.6.1	General requirements		N/A
G.7.6.2	Stranded wire		N/A
G.7.6.2.1	Requirements		N/A
G.7.6.2.2	Test with 8 mm strand		N/A
G.8	**Varistors**		N/A
G.8.1	General requirements	No varistors used	N/A
G.8.2	Safeguards against fire		N/A
G.8.2.1	General		N/A
G.8.2.2	Varistor overload test		N/A
G.8.2.3	Temporary overvoltage test		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

G.9	**Integrated circuit (IC) current limiters**		N/A
G.9.1	Requirements		N/A
	IC limiter output current (max. 5A)..... :		—
	Manufacturers' defined drift ..... :		—
G.9.2	Test Program		N/A
G.9.3	Compliance criteria		N/A
G.10	**Resistors**		N/A
G.10.1	General	Resistor bridging functional insulation	N/A
G.10.2	Conditioning		N/A
G.10.3	Resistor test		N/A
	Changes of resistance (%)..... :		N/A
	Measured current with the lowest resistance value :		N/A
G.10.4	Voltage surge test		N/A
	Changes of resistance (%)..... :		N/A
G.10.5	Impulse test		N/A
	Changes of resistance (%)..... :		N/A
G.10.6	Overload test		N/A
	Changes of resistance (%)..... :		N/A
G.11	**Capacitors and RC units**		N/A
G.11.1	General requirements		N/A
G.11.2	Conditioning of capacitors and RC units		N/A
G.11.3	Rules for selecting capacitors		N/A
G.12	**Optocouplers**		N/A
	Optocouplers comply with IEC 60747-5-5 with specifics		N/A
	Type test voltage $V_{ini,a}$..... :	Considered	—
	Routine test voltage, $V_{ini,b}$..... :	Considered	—
G.13	**Printed boards**		P
G.13.1	General requirements		P
G.13.2	Uncoated printed boards		N/A
G.13.3	Coated printed boards		N/A
G.13.4	Insulation between conductors on the same inner surface		N/A
G.13.5	Insulation between conductors on different surfaces		N/A
	Distance through insulation..... :		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Number of insulation layers (pcs) .....:		—
G.13.6	Tests on coated printed boards		N/A
G.13.6.1	Sample preparation and preliminary inspection		N/A
G.13.6.2	Test method and compliance criteria		N/A
G.14	**Coating on components terminals**		N/A
G.14.1	Requirements .....:	(See Clause G.13)	N/A
G.15	**Pressurized liquid filled components or LFC assemblies**		N/A
G.15.1	Requirements		N/A
G.15.2	Test methods and compliance criteria for self-contained LFC		N/A
G.15.2.1	Hydrostatic pressure test, applied test pressure..... :		N/A
G.15.2.2	Creep resistance test		N/A
G.15.2.3	Tubing and fittings compatibility test, the change of tensile strength (%).....:		N/A
G.15.2.4	Vibration test		N/A
G.15.2.5	Thermal cycling test, test temperature (°C).....:		N/A
G.15.2.6	Force test		N/A
G.15.2.7	Compliance criteria		N/A
G.15.3	Test methods and compliance for a modular LFC		N/A
G.15.3.2	Hydrostatic pressure test, applied test pressure..... :		N/A
G.15.3.3	Creep resistance test		N/A
G.15.3.4	Tubing and fittings compatibility test, the change of tensile strength (%).....:		N/A
G.15.3.5	Thermal cycle test, test temperature (°C).....:		N/A
G.15.3.6	Force test		N/A
G.15.3.7	Compliance criteria		N/A
G.16	**IC including capacitor discharge function (ICX)**		N/A
G.16.1	Condition for fault tested is not required		N/A
	ICX with associated circuitry tested in equipment		N/A
	ICX tested separately		N/A
G.16.2	Tests		N/A
	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test..... :		—
	Mains voltage that impulses to be superimposed on.....:		—
	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test.....:		—
G.16.3	Capacitor discharge test.....:	(See appended table 5.5.2.2)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict

H	**CRITERIA FOR TELEPHONE RINGING SIGNALS**		N/A
H.1	**General**		N/A
H.2	**Method A**		N/A
H.3	**Method B**		N/A
H.3.1	Ringing signal		N/A
H.3.1.1	Frequency (Hz) ..... :		—
H.3.1.2	Voltage (V) ..... :		—
H.3.1.3	Cadence; time (s) and voltage (V) ..... :		—
H.3.1.4	Single fault condition current (mA):..... :		—
H.3.2	Tripping device and monitoring voltage		N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V)..... :		N/A

J	**INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION**		N/A
J.1	**General**		N/A
	Winding wire insulation..... :		—
	Solid round winding wire, diameter (mm)..... :		N/A
	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm^2)..... :		N/A
J.2/J.3	Tests and Manufacturing	(See separate test report)	—

K	**SAFETY INTERLOCKS**		N/A
K.1	**General requirements**		N/A
	Instructional safeguard..... :		N/A
K.2	**Components of safety interlock safeguard mechanism**		N/A
K.3	**Inadvertent change of operating mode**		N/A
K.4	**Interlock safeguard override**		N/A
K.5	**Fail-safe**		N/A
K.5.1	Under single fault condition		N/A
K.6	**Mechanically operated safety interlocks**		N/A
K.6.1	Endurance requirement		N/A
K.7	**Interlock circuit isolation**		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	In circuit connected to mains, separation distance for contact gaps (mm)..... :		N/A
	In circuit isolated from mains, separation distance for contact gaps (mm)..... :		N/A
	Electric strength test before and after the test of K.7.2.....:	(See appended table 5.4.9)	N/A
K.7.2	Overload test, Current (A)..... :		N/A
K.7.3	Endurance test		N/A
K.7.4	Electric strength test	(See appended table 5.4.9)	N/A
L	**DISCONNECT DEVICES**		P
L.1	**General requirements**		P
L.2	**Permanently connected equipment**		N/A
	Instructions for permanently connected equipment		N/A
L.3	**Parts that remain energized**		P
L.4	**Single-phase equipment**		P
	Instructions for single pole disconnect device		N/A
L.5	**Three-phase equipment**		N/A
L.6	**Switches as disconnect devices**		N/A
L.7	**Plugs as disconnect devices**		N/A
	Instructions for pluggable equipment		—
L.8	**Multiple power sources**		N/A
	Instructional safeguard.....:		N/A
M	**EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS**		P
M.1	**General requirements**		P
M.2	**Safety of batteries and their cells**		P
M.2.1	Batteries and their cells comply with relevant IEC standards.....:		P
M.3	**Protection circuits for batteries provided within the equipment**		P
M.3.1	Requirements		P
M.3.2	Test method		P
	Overcharging of a rechargeable battery		P
	Excessive discharging		P
	Unintentional charging of a non-rechargeable battery		N/A
	Reverse charging of a rechargeable battery		P
M.3.3	Compliance criteria	(See appended table M.3)	P

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Clause	Requirement + Test	Result - Remark	Verdict

M.4	**Additional safeguards for equipment containing a secondary lithium battery**		P
M.4.1	General		P
	IEC 62133-2 batteries used for sub-system power powering application.....:		P
M.4.2	Charging safeguards		P
M.4.2.1	Requirements		P
M.4.2.2	Test		P
M.4.2.2.1	General		P
M.4.2.2.2	Abnormal operating conditions		P
M.4.2.2.3	Single fault conditions		P
M.4.2.3	Compliance criteria.....:	(See appended table M.4.2)	P
M.4.3	Fire enclosure.....:		P
M.4.4	Drop test of equipment containing a secondary lithium battery		P
M.4.4.2	Preparation and procedure for the drop test		P
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%): .....:		P
M.4.4.4	Check of the charge/discharge function		P
M.4.4.5	Charge / discharge cycle test		P
M.4.4.6	Compliance criteria		P
M.5	**Risk of burn due to short-circuit during carrying**		P
M.5.1	Requirement		P
M.5.2	Test method and compliance criteria		N/A
M.6	**Safeguards against short-circuits**		P
M.6.1	External and internal faults		P
M.6.2	Compliance criteria		P
M.7	**Risk of explosion from lead acid and NiCd batteries**		N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
	Calculated hydrogen generation rate..... :		N/A
M.7.2	Test method and compliance criteria		N/A
	Minimum air flow rate, Q (m^3/h).....:		N/A
M.7.3	Ventilation tests		N/A
M.7.3.1	General		N/A
M.7.3.2	Ventilation test – alternative 1		N/A
	Hydrogen gas concentration (%).....:		N/A
M.7.3.3	Ventilation test – alternative 2		N/A
	Obtained hydrogen generation rate..... :		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
M.7.3.4	Ventilation test – alternative 3		N/A
	Hydrogen gas concentration (%)..... :		N/A
M.7.4	Marking..... :		N/A
M.8	**Protection against internal ignition from external spark sources of rechargeable batteries with aqueous electrolyte**		N/A
M.8.1	General		N/A
M.8.2	Test method		N/A
M.8.2.1	General		N/A
M.8.2.2	Estimation of hypothetical volume V_Z (m^3/s)..... :		—
M.8.2.3	Correction factors..... :		—
M.8.2.4	Calculation of distance *d* (mm) ..... :		—
M.9	**Preventing electrolyte spillage**		N/A
M.9.1	Protection from electrolyte spillage		N/A
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	**Instructions to prevent reasonably foreseeable misuse**		P
	Instructional safeguard..... :		P
N	**ELECTROCHEMICAL POTENTIALS**		N/A
	Material(s) used..... :		—
O	**MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES**		N/A
	Value of *X* (mm)..... :		—
P	**SAFEGUARDS AGAINST CONDUCTIVE OBJECTS**		N/A
P.1	**General**		N/A
P.2	**Safeguards against entry or consequences of entry of a foreign object**		N/A
P.2.1	General		N/A
	Location and Dimensions (mm) ..... :	Rear:2.1mm	—
P.2.2	Safeguard requirements		N/A
	The ES3 and PS3 keep-out volume in Figure P.4 not applicable to transportable equipment		N/A
	Transportable equipment with metalized plastic parts..... :		N/A
P.2.3	Consequence of entry test..... :		N/A
P.3	**Safeguards against spillage of internal liquids**		N/A
P.3.1	General		N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
P.3.4	Compliance criteria		N/A
P.4	**Metallized coatings and adhesives securing parts**		N/A
P.4.1	General		N/A
P.4.2	Tests		N/A
	Conditioning, T_C (°C)..... :		—
	Duration (weeks)..... :		—
Q	**CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING**		N/A
Q.1	**Limited power sources**		N/A
Q.1.1	Requirements		N/A
	a) Inherently limited output		N/A
	b) Impedance limited output		N/A
	c) Regulating network limited output		N/A
	d) Overcurrent protective device limited output		N/A
	e) IC current limiter complying with G.9		N/A
Q.1.2	Test method and compliance criteria..... :	(See appended table Q.1)	N/A
	Current rating of overcurrent protective device (A) :		N/A
Q.2	**Test for external circuits – paired conductor cable**		N/A
	Maximum output current (A) ..... :		N/A
	Current limiting method..... :		—
R	**LIMITED SHORT CIRCUIT TEST**		N/A
R.1	**General**		N/A
R.2	**Test setup**		N/A
	Overcurrent protective device for test..... :		—
R.3	**Test method**		N/A
	Cord/cable used for test..... :		—
R.4	**Compliance criteria**		N/A
S	**TESTS FOR RESISTANCE TO HEAT AND FIRE**		N/A
S.1	**Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W**		N/A
	Samples, material..... :	Approved fire enclosure with V-0 material used.	—
	Wall thickness (mm)..... :		—
	Conditioning (°C)..... :		—
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- Material not consumed completely		N/A
	- Material extinguishes within 30s		N/A
	- No burning of layer or wrapping tissue		N/A
S.2	**Flammability test for fire enclosure and fire barrier integrity**		N/A
	Samples, material.....:		—
	Wall thickness (mm).....:		—
	Conditioning (°C).....:		—
	- Material did not show any additional holes for combustible materials		N/A
	- Cheesecloth did not ignite for top openings		N/A
S.3	**Flammability test for the bottom of a fire enclosure**		N/A
S.3.1	Mounting of samples		N/A
S.3.2	Test method and compliance criteria		N/A
	Mounting of samples .....:		—
	Wall thickness (mm).....:		—
	Cheesecloth did not ignite		N/A
S.4	**Flammability classification of materials**		N/A
S.5	**Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W**		N/A
	Samples, material.....:		—
	Wall thickness (mm).....:		—
	Conditioning (°C).....:		—
S.6	**Grille covering material, cloth, and reticulated foam**		N/A
	Samples, material.....:		—
	Measured distance from the centre of the fuel tablet (mm)……..:		N/A
T	**MECHANICAL STRENGTH TESTS**		P
T.1	**General**		N/A
T.2	**Steady force test, 10 N .....:**	(See appended table T.2, T.3, T.4, T.5)	N/A
T.3	**Steady force test, 30 N .....:**	(See appended table T.2, T.3, T.4, T.5)	N/A
T.4	**Steady force test, 100 N .....:**	(See appended table T.2, T.3, T.4, T.5)	P
T.5	**Steady force test, 250 N .....:**	(See appended table T.2, T.3, T.4, T.5)	N/A
T.6	**Enclosure impact test**	(See appended table T.6, T.9)	N/A
	Fall test		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Swing test		N/A
T.7	**Drop test ..... :**	(See appended table T.7)	P
T.8	**Stress relief test..... :**	(See appended table T.8)	N/A
T.9	**Glass Impact Test.....:**	(See appended table T.6, T.9)	N/A
T.10	**Glass fragmentation test**		N/A
	Number of particles counted..... :		N/A
T.11	**Test for telescoping or rod antennas**		N/A
	Torque value (Nm) ..... :		N/A
U	**MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION**		N/A
U.1	**General**		N/A
	Instructional safeguard.....:		N/A
U.2	**Test method and compliance for non-intrinsically protected CRTs**		N/A
U.3	**Protective screen**		N/A
V	**DETERMINATION OF ACCESSIBLE PARTS**		N/A
V.1	**Accessible parts of equipment**		N/A
V.1.1	General		N/A
V.1.2	Surfaces and openings tested with jointed test probes		N/A
V.1.3	Openings tested with straight unjointed test probes		N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe		N/A
V.1.5	Slot openings tested with wedge probe		N/A
V.1.6	Terminals tested with rigid test wire		N/A
V.2	**Accessible part criterion**		N/A
X	**ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS)**		N/A
	Clearance..... :	(See appended table X)	N/A
Y	**CONSTRUCTION REQUIREMENTS FOR OUTDOOR ENCLOSURES**		N/A
Y.1	**General**		N/A
Y.2	**Resistance to UV radiation**		N/A
Y.3	**Resistance to corrosion**		N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by..... :		N/A
Y.3.2	Test apparatus		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
Y.3.3	Water – saturated sulphur dioxide atmosphere		N/A
Y.3.4	Test procedure.....:		N/A
Y.3.5	Compliance criteria		N/A
Y.4	**Gaskets**		N/A
Y.4.1	General		N/A
Y.4.2	Gasket tests		N/A
Y.4.3	Tensile strength and elongation tests, changes of tensile strength and elongation.....:		N/A
	Alternative test methods.....:		N/A
Y.4.4	Compression test		N/A
Y.4.5	Oil resistance, change of swell / shrink (%)..... :		N/A
Y.4.6	Securing means	(See Clause P.4)	N/A
Y.5	**Protection of equipment within an outdoor enclosure**		N/A
Y.5.1	General		N/A
Y.5.2	Protection from moisture		N/A
	Relevant tests of IEC 60529 or Y.5.3.....:		N/A
Y.5.3	Water spray test		N/A
Y.5.4	Protection from plants and vermin		N/A
Y.5.5	Protection from excessive dust		N/A
Y.5.5.1	General		N/A
	Relevant tests of IEC 60529 or Y.5.5.2 or Y.5.5.3.. :		N/A
Y.5.5.2	IP5X equipment		N/A
Y.5.5.3	IP6X equipment		N/A
Y.6	**Mechanical strength of enclosures**		N/A
Y.6.1	General		N/A
Y.6.2	Impact test.....:	(See appended table T.6, T.9)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict

4.1.2	TABLE: List of critical components				P
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity1)
Plastic enclosure	Various	Various	V-0, 90 ºC, or better,min. thickness 1.6mm.	UL 94, UL 746C	UL
Internal wire	Various	Various	300V, 105℃, 30AWG, VW-1	UL758	UL
PCB	Various	Various	V-0; 130 ºC	UL 94	UL
Battery	Shenzhen Blue Vision Corporation Limited	481048	3.3VDC,290mAh	IEC 62133	IEC Report
Supplementary information:					

5.2	Table: Classification of electrical energy sources							P
No.	Supply Voltage	Location (e.g. circuit designation)	Test conditions	Parameters				ES Class
				U (V)	I (mA)	Type[1)]	Additional Info [2)]	
1	5 Vd.c	Input circuit	Normal	5 Vd.c	--	--	5 Vd.c	ES1
			Abnormal	--	--	--		
			Single fault	--	--	--		
2	Internal battery	Battery circuit	Normal	3.3 Vd.c	--	--	3.3 Vd.c	ES1
			Abnormal	--	--	--		
			Single fault	--	--	--		
Supplementary information: 1) Type: Steady state (SS), Capacitance (CP), Single pulse (SP), Repetitive pulses (RP), etc. 2) Additional Info: Frequency, Pulse duration, Pulse off time, Capacitance value, etc.								

5.4.1.8	TABLE: Working voltage measurement				N/A
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
Supplementary information:					

5.4.1.10.2	TABLE: Vicat softening temperature of thermoplastics	N/A
Penetration (mm)..... :		—

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Clause	Requirement + Test	Result - Remark	Verdict

Object/ Part No./Material	Manufacturer/trademark	T softening (°C)
supplementary information:		

5.4.1.10.3	TABLE: Ball pressure test of thermoplastics		P
Allowed impression diameter (mm) ..... :		≤ 2 mm	—
Object/Part No./Material	Manufacturer/trademark	Test temperature (°C)	Impression diameter (mm)
Supplementary information: Bobbin material of transformer T1 and LF1 made of Phenolic materials, no other parts necessary to test.			

5.4.2, 5.4.3	TABLE: Minimum Clearances/Creepage distance						N/A
Clearance (cl) and creepage distance (cr) at/of/between:	Up (V)	U r.m.s. (V)	Frequency (kHz)[1]	Required cl (mm)	cl (mm) [2]	Required[3] cr (mm)	cr (mm)
Supplementary information: 1) Only for frequency above 30 kHz 2) Complete Electric Strength voltage (E.S. (V) when 5.4.2.4 applied)							

5.4.4.2	TABLE: Minimum distance through insulation				N/A
Distance through insulation di at/of:	Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)
Supplementary information:1) See appended table 4.1.2 for details.					

5.4.4.9	TABLE: Solid insulation at frequencies >30 kHz						N/A
Insulation material	E_P	Frequency (kHz)	K_R	Thickness d (mm)	Insulation	V_{PW} (Vpk)	
Supplementary information:							

5.4.9	TABLE: Electric strength tests			N/A
Test voltage applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No	
Supplementary information:				

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict

5.5.2.2	TABLE: Stored discharge on capacitors				N/A
Supply Voltage (V), Hz	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Classification

Supplementary information:
X-capacitors installed for testing are:
☐ bleeding resistor rating:
☐ ICX:
Notes:
A. Test Location:
Phase to Neutral; Phase to Phase; Phase to Earth; and/or Neutral to Earth
B. Operating condition abbreviations:
N – Normal operating condition (e.g., normal operation, or open fuse); S –Single fault condition

5.6.6	TABLE: Resistance of protective conductors and terminations			N/A
Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)

Supplementary information:

5.7.4	TABLE: Unearthed accessible parts					N/A
Location	Operating and fault conditions	Supply Voltage (V)	Parameters			ES class
			Voltage (V_{rms} or V_{pk})	Current (A_{rms} or A_{pk})	Freq. (Hz)	

Supplementary information: See the table 5.2
Abbreviation: SC= short circuit; OC= open circuit

5.7.5	TABLE: Earthed accessible conductive part			N/A
Supply voltage (V) .....:				—
Phase(s) .....:	[] Single Phase; [ ] Three Phase: [ ] Delta [ ] Wye			
Power Distribution System .....:	☐ TN ☐ TT ☐ IT			
Location	Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comment	

Supplementary Information:

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Clause	Requirement + Test	Result - Remark	Verdict

5.8	TABLE: Backfeed safeguard in battery backed up supplies					N/A
Location	Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class
Supplementary information: Abbreviation: SC= short circuit, OC= open circuit						

6.2.2	TABLE: Power source circuit classifications					P
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power[1)] (W)	Time (S)	PS class
DC input	Normal operation	--	--	--	--	PS2 (Declaration)
Battery	Normal operation	--	--	--	--	PS1 (Declaration)
Supplementary information: Abbreviation: SC= short circuit; OC= open circuit 1) Measured after 3 s for PS1 and measured after 5 s for PS2 and PS3. 2) * Unit shutdown immediately, recoverable, no hazard.						

6.2.3.1	Table: Determination of Potential Ignition Sources (Arcing PIS)				N/A
Location	Open circuit voltage After 3 s (Vp)	Measured r.m.s current (Irms)	Calculated value (V_p x I_{rms})	Arcing PIS Yes / No	
Supplementary information: An Arcing PIS requires a minimum of 50 V (peak) a.c. or d.c. An Arcing PIS is established when the product of the open circuit voltage (V_p) and normal operating condition rms current (I_{rms}) is greater than 15.					

6.2.3.2	Table: Determination of Potential Ignition Sources (Resistive PIS)					P
Circuit Location (x-y)	Operating Condition (Normal / Describe Single Fault)	Measured wattage or VA During first 30 s (W / VA)	Measured wattage or VA After 30 s (W / VA)	Protective Circuit, Regulator, or PTC Operated Yes / No (Comment)	Resistive PIS Yes/No	
All internal circuits/ components	--	--	--	--	Yes	

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Clause	Requirement + Test	Result - Remark	Verdict

Supplementary Information:
A combination of voltmeter, VA and ammeter IA may be used instead of a wattmeter.

If a separate voltmeter and ammeter are used, the product of (VA x IA) is used to determine Resistive PIS classification.

A Resistive PIS: (a) dissipates more than 15 W, measured after 30 s of normal operation, or (b) under single fault conditions has either a power exceeding 100 W measured immediately after the introduction of the fault if electronic circuits, regulators or PTC devices are used, or has an available power exceeding 15 W measured 30 s after introduction of the fault.

8.5.5	**TABLE: High Pressure Lamp**		N/A
Description		Values	Energy Source Classification
Lamp type.....:			—
Manufacturer .....:			—
Cat no. .....:			—
Pressure (cold) (MPa).....:			MS_
Pressure (operating) (MPa) .....:			MS_
Operating time (minutes) .....:			—
Explosion method .....:			—
Max particle length escaping enclosure (mm) .:			MS_
Max particle length beyond 1 m (mm).....:			MS_
Overall result .....:			
Supplementary information:			

9.6	**TABLE: Temperature measurements for wireless power transmitters**								N/A
Supply voltage (V)..... :									—
Max. transmit power of transmitter (W)..... :									—
Foreign objects	w/o receiver and direct contact		with receiver and direct contact		with receiver and at distance of 2 mm		with receiver and at distance of 5 mm	
	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
Supplementary information:									

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Clause	Requirement + Test	Result - Remark	Verdict

5.4.1.4, 9.3, B.1.5, B.2.6	TABLE: Temperature measurements				P
Supply voltage (V).....:	5Vd.c.only charging	Only discharging	--	--	—
Ambient temperature during test T_{amb} (°C).....:	--	--	--	--	—
Maximum measured temperature *T* of part/at:	*T* (°C)				Allowed T_{max} (°C)
IC(U12)	34.3	38.5	--	--	130
IC(U14)	36.4	40.8	--	--	130
Surface of Lithium battery	38.6	43.3	--	--	60
Plastic enclosure internal	33.5	39.2	--	--	Ref.
Plastic enclosure surface	29.3	36.0	--	--	48
Ambient temperature	24.7	24.9	--	--	--

Temperature T of winding:	t_1 (°C)	R_1 (Ω)	t_2 (°C)	R_2 (Ω)	T (°C)	Allowed T_{max} (°C)	Insulation class
--	--	--	--	--	--	--	--

Supplementary information:

B.2.5	TABLE: Input test							P
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5 Vd.c	--	0.21	1	--	--	--	--	Only charging: unit was powered by 5 Vd.c. without operating. Battery max. charging current: 0.18 A
3.3 Vd.c	--	0.02	0.29	--	--	--	--	Normal discharging: unit was powered by internal battery during normal operating. Speaker load with max of non-clipped output power Battery max.

B.2.5, E.3.1	TABLE: Input test for equipment containing audio amplifiers			P
Operation Condition:	Signal type	Frequency (Hz)	Output loads (Ω)	Load setup
Normal operation.	Speaker load with max of non-clipped output power with.	1kHz signal for audio.	--	--

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Clause	Requirement + Test	Result - Remark	Verdict

Input									Amplifier Output			
Cond.	U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Ch.	U (V)	P (W)	Load (Ω)
--	5VDC	--	0.21	1	--	--	--	--	--	--	--	--
--	3.3 Vd.c	--	0.02	0.29	--	--	--	--	--	--	--	--
Supplementary information:												

B.3 & B.4	TABLE: Abnormal operating condition and fault condition tests								P
Ambient temperature (°C) .....:			25°C or less						—
Power source for EUT: Manufacturer, model/type, output rating ..:									—
Component No.	Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current, (A)	T-couple	Temp. (°C)	Observation	
(U14) (Overcharging)	SC pin 1-8	5.0 Vd.c.	7 h	--	--	--	Surface of Lithium battery:40.6°C external enclosure near battery:31.5°C Ambient: 24.8°C	Normal work, no damage, no hazards. Input current:0.21A→0.25A Battery charge current: 0.18A→0.22A	
(Speaker) (Over-discharging)	SC	3.3 Vd.c.	7 h	--	--	--	Surface of Lithium battery:45.4°C external enclosure near battery:37.8°C Ambient: 24.7°C	Normal work, no damage, no hazards. Battery charge current: 0.02A→0.05A	
Supplementary information: 1) S-C: Short-circuited, O-L: Overload. 2) The test result shown all safeguards remained effective and didn't lead to a single fault condition during abnormal operating condition; In addition all safeguards complied with applicable repuirements in this standard after restoration of normal operating conditions. 3) The test result showed no Class 1 or 2 energy source become Class 3 level during and after single fault condition.									

M.3	TABLE: Protection circuits for batteries provided within the equipment	P
Is it possible to install the battery in a reverse polarity position .....:	--	—
	Charging	

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Clause	Requirement + Test	Result - Remark	Verdict

Equipment Specification	Voltage (V)		Current (A)			
	5Vdc		1			
Manufacturer/type	Battery specification					
	Non-rechargeable batteries		Rechargeable batteries			
	Discharging current (A)	Unintentional charging current (A)	Charging		Discharging current (A)	Reverse charging current (A)
			Voltage (V)	Current (A)		
Shenzhen Blue Vision Corporation Limited /481046	--	--	3.3	0.29A	0.29A	--
Note: The tests of M.3.2 are applicable only when above appropriate data is not available.						
Specified battery temperature (°C)..... :						

Component No.	Fault condition	Charge/ discharge mode	Test time	Temp. (°C)	Current (A)	Voltage (V)	Observation
U14	SC pin 1-8	Over charge	7h	40.6	0.22	5	NL,NS,NE,NF
Speaker	SC	Over discharge	7h	45.4	0.05	3.3	NL,NS,NE,NF

Supplementary information:

Abbreviation: S-C= short circuit; O-L= overload; NL= no chemical leakage; NS= no spillage of liquid; NE= no explosion; NF= no emission of flame or expulsion of molten metal.

M.4.2	TABLE: Charging safeguards for equipment containing a secondary lithium battery	P
Maximum specified charging voltage (V) ..... :	5	—
Maximum specified charging current (A) ..... :	1A	—
Highest specified charging temperature (°C) ..... :	45	
Lowest specified charging temperature (°C) ..... :	0	

Battery manufacturer /type	Operating and fault condition	Measurement			Observation
		Charging voltage (V)	Charging current (A)	Temp. (°C)	
Shenzhen Blue Vision Corporation Limited /481046	Ambient temperature: 0 °C	5	--	--	Unit stop charging when reach to the LSCT.
	Ambient temperature: 45 °C	5	--	--	Unit stop charging when reach to the HSCT

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit; MSCV= maximum specified charging voltage; MSCC= maximum specified charging current; HSCT= highest specified charging temperature; LSCT= lowest specified charging temperature

Q.1	TABLE: Circuits intended for interconnection with building wiring (LPS)	N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict

Note: Measured UOC (V) with all load circuits disconnected:

Output Circuit	Components	U_{oc} (V)	I_{sc} (A)		S (VA)	
			Meas.	Limit	Meas.	Limit

Supplementary Information:

* Unit shutdown immediately, recoverable,no hazard.

T.2, T.3, T.4, T.5	TABLE: Steady force test				P
Part/Location	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation
External enclosure	1)	1)	250	5	Enclosure remained intact

Supplementary information:

1)See table 4.1.2, all the enclosure material has been tested.

T.6, T.9	TABLE: Impact tests			N/A
Part/Location	Material	Thickness (mm)	Vertical distance (mm)	Observation

Supplementary information:

1)See table 4.1.2, all the enclosure material has been tested.

T.7	TABLE: Drop tests			P
Part/Location	Material	Thickness (mm)	Drop Height (mm)	Observation
complete enclosure	1)	1)	1000	No visible damage, no hazard

Supplementary information:

1) See appended table 4.1.2.

Each source of enclosure in table 4.1.2 was applied and passed the relevant tests.

T.8	TABLE: Stress relief test				N/A
Part/Location	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation

Supplementary information:

1)See table 4.1.2, all the enclosure material has been tested.

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict

X	TABLE: Alternative method for determining minimum clearances distances			N/A
Clearance distanced between:		Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)
Supplementary information:				

--- End of Report ---

Attachment 1 European Group Differences And National Differences

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT TO TEST REPORT
IEC 62368-1:2023
EUROPEAN GROUP DIFFERENCES AND EUROPEAN NATIONAL DIFFERENCES
(Audio/video, information and communication technology equipment Part 1: Safety requirements)

Differences according to..... :	EN IEC 62368-1:2024 + A11:2024
TRF template used.....:	IECEE OD-2020-F2:2024, Ed. 2
Attachment Form No..... :	EU_GD_IEC62368_1F

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict

Attachment Originator.....:	UL Solutions (Demko)
Master Attachment.....:	2025-08-29

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	CENELEC COMMON MODIFICATIONS	—
	Clause numbers in the cells that are shaded light grey are clause references in EN IEC 62368-1:2024+A11:2024. All other clause numbers in that column, except for those in the paragraph below, refers to IEC 62368-1:2023. Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2023 are prefixed "Z".	—
	Add the following annexes: Annex ZA (normative) — Normative references to international publications with their corresponding European publications Annex ZB (normative) — Special national conditions Annex ZC (informative) — A-deviations Annex ZD (informative) — IEC and CENELEC code designations for flexible cords	—

1	**MODIFICATION to the whole document**	—
	Delete all the "country" notes in the reference document according to the following list:	—

0.2.1	Note 1 and Note 2		1	Note 4 and Note 5		3.3.8.1	Note 2
3.3.8.3	Note 1		4.1.15	Note		4.7.3	Note 1 and Note 2
5.4.2.3.2.2 Table 12	Note c		5.4.2.3.2.4	Note 1 and Note 3		5.4.2.3.2.4 Table 13	Note 2
5.4.2.5	Note 2		5.4.5.1	Note		5.4.10.2.1	Note
5.4.10.2.2	Note		5.4.10.2.3	Note			
5.5.2.1	Note		5.5.6	Note		5.6.4.2.1	Note 2 and Note 3 and Note 4
5.6.8	Note 2		5.7.7.1	Note 1 and Note 2		8.5.4.2.3	Note
10.2.1 Table 39	Note 3 and Note 4 and Note 5		10.5.3	Note 2		10.6.1	Note 3
F.3.3.4	Note 2		F.3.3.6	Note 3		Y.4.1	Note
Y.4.5	Note						

2	**Modification to Clause 1**	—

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict
1	**Add** the following note at the end of Clause 1: "NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2011/65/EU." Add the following paragraph and note after Note 5: "This document is a type test standard. NOTE Z2 Routine tests of complete equipment, sub-assemblies or components are covered by EN 62911."		N/A
3	**Modification to Clause 2**		—

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict
2	Add the following references: EN 71-1:2014+A1:2018, Safety of toys - Part 1: Mechanical and physical properties EN 50332-1:2013, Sound system equipment: Headphones and earphones associated with personal music players - Maximum sound pressure level measurement methodology - Part 1: General method for "one package equipment" EN 50332-2:2013, Sound system equipment: Headphones and earphones associated with personal music players - Maximum sound pressure level measurement methodology - Part 2: Matching of sets with headphones if either or both are offered separately, or are offered as one package equipment but with standardised connectors between the two allowing to combine components of different manufacturers or different design EN 50332-3:2017, Sound system equipment: headphones and earphones associated with personal music players - Maximum sound pressure level measurement methodology - Part 3: Measurement method for sound dose management IEC/TR 62471-2, Photobiological safety of lamps and lamp systems - Part 2: Guidance on manufacturing requirements relating to non-laser optical radiation safety		N/A
4	**Modification to Clause 4**		—

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict
4.Z1	Add the following new subclause 4.Z1 after subclause 4.9: "For compliance with B.3 and B.4 in circuits connected to an AC mains, protective devices shall be provided, subject to the following: - for pluggable equipment type A, the protective devices shall be included as parts of the equipment, with the exception of components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, for which the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet; - for pluggable equipment type B or permanently connected equipment, the protection may be the dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, for example a fuse or circuit breaker, is fully specified in the installation instructions. Where protective devices are required within the equipment, the protective devices within the equipment shall operate before or at the same time the expected building installation protection will operate. For earth faults in single-phase equipment, it is not necessary to provide 2 protective devices. It is expected that the building installation will protect against earth faults. This applies also in countries where an IT power distribution system is used."		N/A
5	**Modification to subclause 4.1.9**		—
4.1.9	Add the following paragraph at the end of this subclause: "Products need to comply with the requirements of this document with appropriate measurement uncertainty. NOTE Z1 See also the RED ADCO position on 'Measurement uncertainty in published harmonized standards'."		N/A

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict
6	**Modification to subclause 5.4.9.1**		—
5.4.9.1	Add the following note after the 5th paragraph: "NOTE Z1 For guidance on the use of high voltage source, see IEC 60060-1, Clause 8 of IEC 60243-1 and IEC 61180."		N/A
7	**Modification to subclause 5.4.2.3.2.4**		—
5.4.2.3.2.4	Add the following at the end of this subclause: "The requirement for interconnection with external circuit in a HBES/BACS network is in addition given in EN IEC 63044-3:2018."		N/A
8	**Modification to subclause 5.6.6.2**		—
5.6.6.2	Replace item d) with the following: "d) For equipment powered from a DC mains, if the protective current rating of the circuit under test exceeds 25 A, the test current shall be minimum as required in item a), unless the manufacturer specifies a higher value."		N/A
9	**Modification to subclause 9.3.1**		—
9.3.1	Replace the second paragraph with the following: "An accessible part that, while in contact with the body, is likely to drop in temperature upon touch can be evaluated under the limits of Annex A of IEC Guide 117:2010 using the test method of 4.5 of IEC Guide 117."		N/A
10	**Modification to subclause 10.2.1**		—
10.2.1	Add the following to [c] and [d] in Table 38: "For additional requirements, see 10.5.1."		N/A
11	**Modification to subclause 10.4.1**		—

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict
10.4.1	Replace the second paragraph of 10.4.1 with: “Electronic light effect equipment does not have to comply with the requirements of 10.4. However, 114 IEC/TR 62471-2 shall be considered and proper installation instructions shall be provided.” Replace the ninth paragraph of 10.4.1 with: “The following information shall be provided in the user manual for safe operation and installation. This information shall also be provided for safe operation by a skilled person who may be exposed to Risk Group 3 energy levels. Adequate instructions for proper assembly, installation, maintenance and safe use, including clear warnings concerning precautions to avoid possible exposure to hazardous optical radiation; and Advice on safe operating procedures and warnings concerning reasonably foreseeable misuse, malfunctions and hazardous failure modes. Where servicing and maintenance procedures are detailed, they shall include explicit instructions on safe procedures to be followed; and The marking on the equipment shall be reproduced in the user manual. A yellow background is not required in the user manual.”		N/A
12	**Modification to subclause 10.4.4**		—
10.4.4	Replace the last paragraph of 10.4.4 with: “Compliance against material degradation from UV radiation is checked by the applicable tests of Annex C.”		N/A
13	**Modification to subclause 10.5.1**		—

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict
10.5.1	Add the following after the first paragraph: "For RS1 compliance is checked by measurement under the following conditions: In addition to the normal operating conditions, all controls adjustable from the outside of the equipment by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made. NOTE Z1 Soldered joints and paint lockings are examples of adequate locking. The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm2, at any point at a distance of 10 cm from the outer surface of the equipment. Moreover, the measurement shall be made under fault conditions causing an increase of the high-voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made. For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level. NOTE Z2 These values appear in Directive 2013/59/Euratom of 5 December 2013."		N/A
14	**Modification to subclause 10.5.3**		—
10.5.3	Replace the second paragraph of 10.5.3 with: "The amount of radiation is determined by means of a radiation monitor of the ionizing chamber type with an effective area of 1 000 mm2 ± 10 mm2 or by measuring equipment of other types giving equivalent results."		N/A
15	**Modification to Clause 10**		—
	Replace 10.6 with the following:		N/A
10.6	**Safeguards against acoustic energy sources**		—
10.6.1	**General**		—

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict
10.6.1.1	Introduction Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person, that: - is designed to allow the user to listen to audio or audiovisual content / material; and - uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and - has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.). EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment. Personal music players shall comply with the requirements of either 10.6.2 or 10.6.3. NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360. NOTE 2 It is the intention of the Committee to allow the alternative methods for now, but to only use the dose measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as possible.		N/A

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict
	Listening devices sold separately shall comply with the requirements of 10.6.6. These requirements are valid for music or video mode only. The requirements do not apply to: - professional equipment; NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores or general public sales channels are considered not to be professional equipment. - hearing aid equipment and other devices for assistive listening; - the following type of analogue personal music players: - long distance radio receiver (for example, a multiband radio receiver or world band radio receiver, an AM radio receiver), and - cassette player/recorder; NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies. - a player while connected to an external amplifier that does not allow the user to walk around while in use; - hearing protection devices (HPD) that comply with EN 352-8 For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply. The relevant requirements are given in EN 71-1:2014+A1:2018, 4.20 and the related tests methods and measurement distances apply.		N/A
10.6.2	**Classification of devices without the capacity to estimate sound dose**		—

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict
10.6.2.1	General This standard is transitioning from short-term based (30 s) requirements to long-term based (40 h) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3:2017. For classifying the acoustic output *L*Aeq,*T*, measurements are based on the A-weighted equivalent sound pressure level over a 30 s period. For music where the average sound pressure (long term *L*Aeq,*T*) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In this case, *T* becomes the duration of the song. NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term *L*Aeq,*T*) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit. For example, if the player is set with the programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB.		N/A

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict
10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2) RS1 is a class 1 acoustic energy source that does not exceed the following: - for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the *L*Aeq,*T* acoustic output shall be ≤ 85 dB when playing the fixed “programme simulation noise” described in EN 50332-1:2013; - for equipment provided with a standardized connector (for example, a 3,5 mm headphone/earphone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or −25 dBFS (digital interface) when playing the fixed 214 “programme simulation noise” described in EN 50332-1:2013. The RS1 limits will be updated for all devices as per 10.6.3.2.		N/A
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3) RS2 is a class 2 acoustic energy source that does not exceed the following: - for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic detection, the LAeq,T acoustic output shall be ≤ 100 dB(A) when playing the fixed “programme simulation noise” as described in EN 50332-1:2013: - for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or −10 dBFS (digital interface) when playing the fixed “programme simulation noise” as described in EN 50332-1:2013.		N/A
10.6.2.4	RS3 limits RS3 is a class 3 acoustic energy source that exceeds RS2 limits.		N/A
10.6.3	**Classification of devices (new)**		N/A

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict
10.6.3.1	General Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision 2009/490/EC of 23 June 2009, are given below.		N/A
10.6.3.2	RS1 limits (new) RS1 is a class 1 acoustic energy source that does not exceed the following: - for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the LAeq,T acoustic output shall be ≤ 80 dB when playing the fixed “programme simulation noise” described in EN 50332-1:2013; - for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or −30 dBFS (digital interface) when playing the fixed “programme simulation noise” described in EN 50332-1:2013.		N/A
10.6.3.3	RS2 limits (new) RS2 is a class 2 acoustic energy source that does not exceed the following: - for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3:2017, shall be ≤ 80 dB when playing the fixed “programme simulation noise” described in 249 EN 50332-1:2013; - for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN 50332-3:2017, shall be ≤ 15 mV (analogue interface) or −30 dBFS when playing the fixed “programme simulation noise” described in EN 50332-1:2013.		N/A

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict
10.6.4	**Requirements for maximum sound exposure**		—
10.6.4.1	Measurement methods All volume controls shall be turned to maximum during tests. Measurements shall be made in accordance with EN 50332-1:2013 or EN 50332-2:2013 as applicable.		N/A
10.6.4.2	Protection of persons Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3. NOTE 1 Volume control is not considered to be a safeguard. Between RS2 and an ordinary person, the basic safeguard may be replaced by an instructional safeguard in accordance with Clause F.5, except that the instructional safeguard shall be placed on the equipment, or on the packaging, or in the instruction manual. Alternatively, the instructional safeguard may be given through the equipment display during use. The elements of the instructional safeguard shall be as follows: - element 1a: the symbol  , IEC 60417-6044 (2011–01) - element 2: “High sound pressure” or equivalent text - element 3: “Hearing damage risk” or equivalent text - element 4: “Do not listen at high volume levels for long periods.” or equivalent text An equipment safeguard shall prevent exposure of an ordinary person to an RS2 source without intentional physical action from the ordinary person and shall automatically return to an output level not exceeding what is specified for an RS1 source when the power is switched off. The equipment shall provide a means to actively inform the user of the increased sound level when the equipment is operated with an output level exceeding RS1 limits. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an output level exceeding RS1 limits. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time.		N/A

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed. NOTE 3 The 20 h listening time is the accumulative listening time, independent of how often and how long the personal music player has been switched off. A skilled person shall not be unintentionally exposed to RS3.		N/A
10.6.5	**Requirements for dose-based systems**		N/A
10.6.5.1	General requirements Personal music players shall give the warnings as provided below when tested according to EN 50332-3:2017, using the limits from this clause. The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration. The personal music player shall be supplied with easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc.		N/A
10.6.5.2	Dose-based warning and requirements When a dose of 100 % CSD is reached, and at least at every 100 % further increase of CSD, the device shall warn the user and require an acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to a level in compliance with class RS1 limits. The warning shall at least clearly indicate that listening above 100 % CSD leads to the risk of hearing damage or loss.		N/A

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict
10.6.5.3	Exposure-based requirements With only dose-based requirements, cause and effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-term sound level a user can listen at. The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3:2017. The EL settling time (time from starting level reduction to reaching target output level) shall be 10 s or less. Test of EL functionality is conducted according to EN 50332-3:2017, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the un-weighted level integrated over 180 s shall be no more than 150 mV for an analogue interface and no more than −10 dBFS for a digital interface. In case the source is known not to be music (or test signal), the EL may be disabled.		N/A
10.6.6	**Requirements for listening devices (headphones, earphones, etc.)**		—
10.6.6.1	Corded listening devices with analogue input With 94 dB *L*Aeq acoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximizes the measured acoustic output level, the input voltage of the listening device when playing the fixed “programme simulation noise” as described in EN 50332-1:2013 shall be ≥ 75 mV. NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV in 10.6.2.2. or 100 dB and 150 mV in 10.6.2.3.		N/A

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict
10.6.6.2	Corded listening devices with digital input With any playing device playing the fixed “programme simulation noise” described in EN 50332-1:2013, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the *L*Aeq,*T* acoustic output of the listening device shall be ≤ 100 dB with an input signal of −10 dBFS.		N/A
10.6.6.3	Cordless listening devices In cordless mode, with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1:2013; and respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the *L*Aeq,*T* acoustic output of the listening device shall be ≤ 100 dB with an input signal of −10 dBFS.		N/A
10.6.6.4	Measurement method Measurements shall be made in accordance with EN 50332-2:2013 as applicable.”		N/A
16	**Modification to subclause G.3.1.2**		—
G.3.1.2	Add the following note after the first paragraph: “NOTE Z1 An IEC 60730 series standard is considered relevant if the component in question falls within its scope.”		N/A
17	**Modification to subclause G.7.1**		—
G.7.1	Add the following note at the end of the subclause: “NOTE Z1 The harmonized code designations corresponding to the IEC cable types are given in Annex ZD.”		N/A
18	**Modification to subclause M.2**		—

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict
M.2	Add the following paragraph after the first paragraph: "The size of the battery compartment shall be designed taking into account the battery compartment recommendations of the relevant battery standard. NOTE For general guidance on the design of the battery compartment, see Clause 8 of IEC 62485-4."		N/A
19	**Modification to Bibliography**		—
	Add the following references: EN 60060-1, High-voltage test techniques – Part 1: General definitions and test requirements EN 60898-1, Electrical accessories – Circuit-breakers for overcurrent protection for household and similar installations – Part 1: Circuit-breakers for a.c. operation EN 62911, Audio, video and information technology equipment – Routine electrical safety testing in production ADCO RED Position on 'Measurement uncertainty in published harmonized standards' – https:// ec.europa .eu/ docsroom/ documents/ 32381 Add the following notes for the standards indicated: IEC 60060-1 NOTE Harmonized as EN 60060-1. IEC 60130-9 NOTE Harmonized as EN 60130-9. IEC 60204-1 NOTE Harmonized as EN IEC 60204-1. IEC 60204-11 NOTE Harmonized as EN IEC 60204-11. IEC 60243-1 NOTE Harmonized as EN 60243-1. IEC 60269-2 NOTE Harmonized as HD 60269-2. IEC 60309-1 NOTE Harmonized as EN 60309-1. IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series. IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4. IEC 60664-5:2005 NOTE Harmonized as EN 60664-5:2007. IEC 60721-3-4 NOTE Harmonized as EN IEC 60721-3-4. IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified). IEC 61180 NOTE Harmonized as EN 61180.		N/A

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict

	IEC 61508-1 NOTE Harmonized as EN 61508-1. IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1. IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4. IEC 61558-2-6 NOTE Harmonized as EN 61558-2-6. IEC 61643-21 NOTE Harmonized as EN 61643-21. IEC 61643-311 NOTE Harmonized as EN 61643-311. IEC 61643-321 NOTE Harmonized as EN 61643-321. IEC 61643-331 NOTE Harmonized as EN IEC 61643-331. IEC 61140:2016 NOTE Harmonized as EN 61140:2016. IEC 61439-5:2014 NOTE Harmonized as EN 61439-5:2015. IEC 61969-3 NOTE Harmonized as EN 61969-3. IEC 62040:2017 NOTE Harmonized as EN IEC 62040:2019. IEC 62305-1 NOTE Harmonized as EN 62305-1. IEC 62368-3 NOTE Harmonized as EN 62368-3. IEC 62485-4 NOTE Harmonized as EN IEC 62485-4. ISO 10218-1 NOTE Harmonized as EN ISO 10218-1. ISO 10218-2 NOTE Harmonized as EN ISO 10218-2. ISO 13482 NOTE Harmonized as EN ISO 13482. ISO 13850 NOTE Harmonized as EN ISO 13850.		N/A
20	**Addition of annexes**		—
ZB	**ANNEX ZB, SPECIAL NATIONAL CONDITIONS**		—
4.1.15	Finland, Norway and Sweden To the end of the subclause the following is added: Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet. The marking text in the applicable countries shall be as follows: In Finland: “Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan” In Norway: “Apparatet må tilkoples jordet stikkontakt” In Sweden: “Apparaten skall anslutas till jordat uttag”		N/A

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict
4.7.3	United Kingdom To the end of the subclause the following is added: The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex.		N/A
5.4.11.1 and Annex G	Finland and Sweden To the end of the subclause the following is added: For separation of the telecommunication network from earth the following is applicable: If this insulation is solid, including insulation forming part of a component, it shall at least consist of either - two layers of thin sheet material, each of which shall pass the electric strength test below, or - one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.		N/A

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition - passes the tests and inspection criteria of 5.4.7 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), and - is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV. It is permitted to bridge this insulation with a capacitor complying with EN 60384-14, subclass Y2. A capacitor classified Y3 according to EN 60384-14, may bridge this insulation under the following conditions: - the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.10; - the additional testing shall be performed on all the test specimens as described in EN 60384-14; -..... the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.		N/A
5.5.2.1	Norway After the 3rd paragraph the following is added: Due to the IT power distribution system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).		N/A
5.5.6	Finland, Norway and Sweden To the end of the subclause the following is added: Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.3.		N/A

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict
5.6.4.2.1	Ireland and United Kingdom After the indent for pluggable equipment type A, the following is added: -..... the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug.		N/A
5.6.4.2.1	France After the indent for pluggable equipment type A, the following is added: - in certain cases, the protective current rating of the circuit supplied from the mains is taken as 20 A instead of 16 A. *Justification:* In France, according to NF C15-100 standard, in certain cases, the maximum rated current of the protective device circuit-breaker is 20 A.		N/A
5.6.5.1	Ireland and United Kingdom To the second paragraph the following is added: The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm2 to 1,5 mm2 in cross-sectional area.		N/A
5.6.8	Norway To the end of the subclause the following is added: Equipment connected with an earthed mains plug is classified as class I equipment. See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.		N/A

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict
5.7.7.1	Norway and Sweden To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in: “Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)” NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV RMS, 50 Hz or 60 Hz, for 1 min. Translation to Norwegian (the Swedish text will also be accepted in Norway): “Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet.”		N/A

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict
	Translation to Swedish: ”Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet.”.		N/A
8.5.4.2.3	United Kingdom Add the following after the 2nd dash bullet in 3rd paragraph: An emergency stop system complying with the requirements of EN IEC 60204-1 and EN ISO 13850 is required where there is a risk of personal injury.		N/A
B.3.1 and B.4	Ireland and United Kingdom The following is applicable: To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment, tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment, until the requirements of Annexes B.3.1 and B.4 are met		N/A
G.4.2	United Kingdom To the end of the subclause the following is added: The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.		N/A

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict
G.7.1	United Kingdom To the first paragraph the following is added: Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc. (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations. NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.		N/A
G.7.1	Ireland To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard		N/A
G.7.2	Ireland and United Kingdom To the first paragraph the following is added: A power supply cord with a conductor of 1,25 mm^2 is allowed for equipment which is rated over 10 A and up to and including 13 A.		N/A
ZC	**ANNEX ZC, NATIONAL DEVIATIONS**		**N/A**

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict
10.5.2	Germany The following requirement applies: For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking. *Justification*: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM. NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49–531–592–6320, Internet: http://www.ptb.de		N/A
ZD	**IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS**		N/A

ATTACHMENT 1 to IEC 62368-1:2023			
Clause	Requirement + Test	Result - Remark	Verdict

N/A

Type of flexible cord	Code designations	
	IEC	CENELEC
PVC insulated cords		
Flat twin tinsel cord	60227 IEC 41	H03VH-Y
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F
Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F
Rubber insulated cords		
Braided cord	60245 IEC 51	H03RT-F
Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F
Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F
Cords having high flexibility		
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03RV4-H
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H
Cords insulated and sheathed with halogen-free thermoplastic compounds		
Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-F
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-F

- - - End of attachment 1 - - -

Attachment 2: Photo documentations

View 1:

☒ Overall

☐ Front

☐ Rear

☐ Left

☐ Right

☐ Bottom

☐ Internal

☐ PCB



View 2:

☒ Overall

☐ Front

☐ Rear

☐ Left

☐ Right

☐ Bottom

☐ Internal

☐ PCB



Attachment 2: Photo documentations

View 3:

☒ Overall

☐ Front

☐ Rear

☐ Left

☐ Right

☐ Bottom

☐ Internal

☐ PCB



View 4:

☒ Overall

☐ Front

☐ Rear

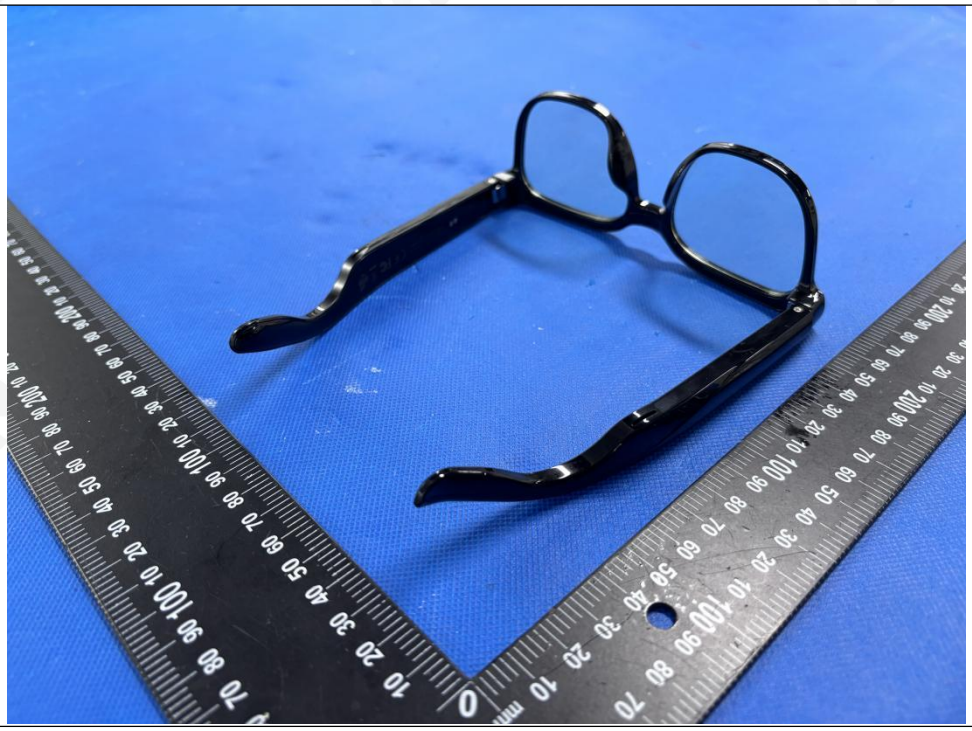
☐ Left

☐ Right

☐ Bottom

☐ Internal

☐ top



Attachment 2: Photo documentations

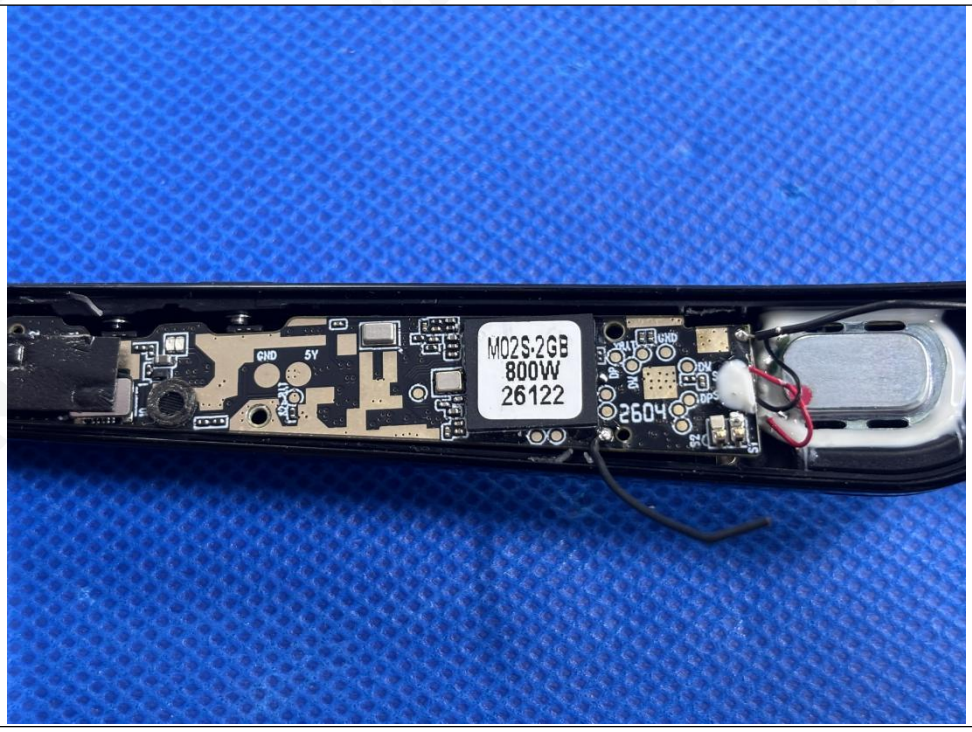
View 5:

- ☐ Overall
- ☐ Front
- ☐ Rear
- ☐ Left
- ☐ Right
- ☐ Bottom
- ☒ Internal
- ☐ PCB



View 6:

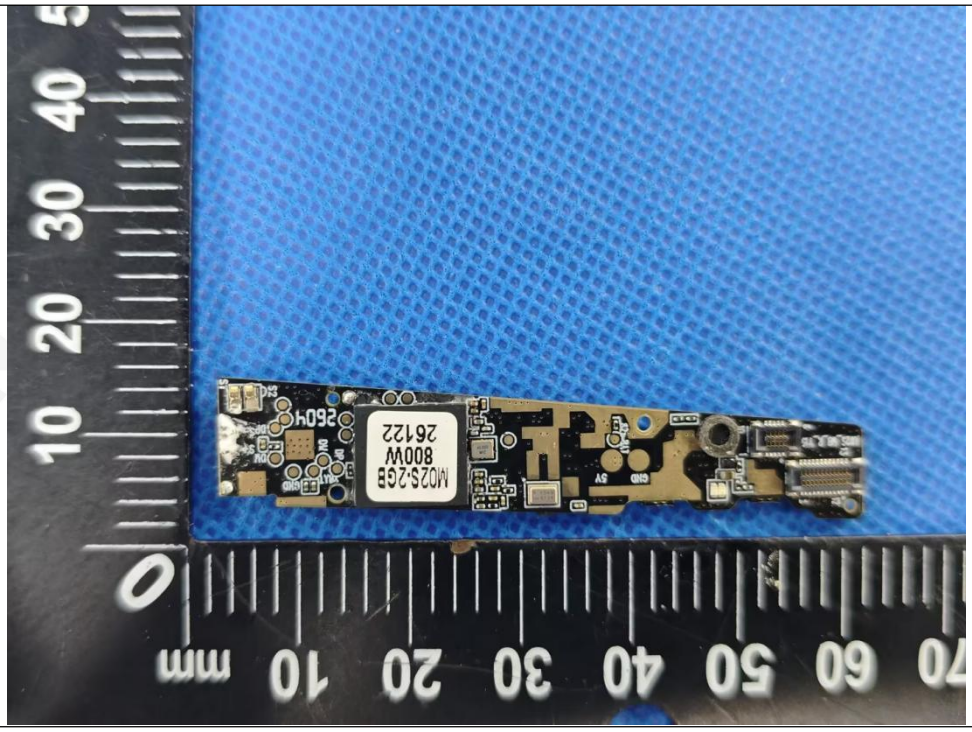
- ☐ Overall
- ☐ Front
- ☐ Rear
- ☐ Left
- ☐ Right
- ☐ Bottom
- ☐ Internal
- ☒ PCB



Attachment 2: Photo documentations

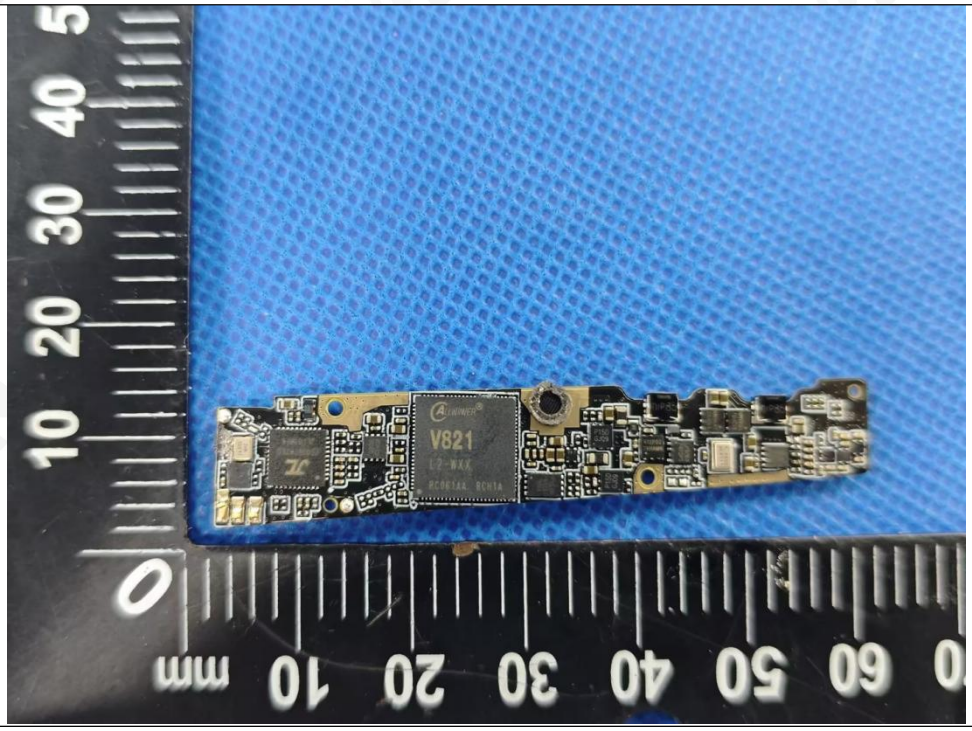
View 7:

- ☐ Overall
- ☐ Front
- ☐ Rear
- ☐ Left
- ☐ Right
- ☐ Bottom
- ☐ Internal
- ☒ PCB



View 8:

- ☐ Overall
- ☐ Front
- ☐ Rear
- ☐ Left
- ☐ Right
- ☐ Bottom
- ☐ Internal
- ☒ PCB



Attachment 2: Photo documentations

View 9:

- ☐ Overall
- ☐ Front
- ☐ Rear
- ☐ Left
- ☐ Right
- ☐ Bottom
- ☒ Internal
- ☐ PCB



View 10:

- ☐ Overall
- ☐ Front
- ☐ Rear
- ☐ Left
- ☐ Right
- ☐ Bottom
- ☐ Internal
- ☒ battery



--- End of Attachment 2 ---

CE-Health

TEST REPORT

Client Name	:	Shenzhen Blue Vision Corporation Limited
Address	:	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.
Product Name	:	Smart Glasses
Test Model No.	:	Bomanlon BV-01
Report No.	:	CCTI260427107H1-R2
Issued Date	:	May 22, 2026

Prepared By	:	Shenzhen CCTI Technology Co., Ltd.
Address	:	A1-1, Building B1&B2, No.45 Gangtou Road, Bogang District, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Contact Info	:	Service Tel : 0086-400-188-9662
		CCTI E-mail : ccti@ccti-lab.com
		CCTI Web : www.ccti-lab.com

Scan code for report

TEST REPORT VERIFICATION

Applicant	:	Shenzhen Blue Vision Corporation Limited
Address	:	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.
Manufacturer	:	Shenzhen Blue Vision Corporation Limited
Address	:	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.
Product Name	:	Smart Glasses
Test Model No.	:	Bomanlon BV-01
Series No.	:	Bomanlon BV-02, Bomanlon BV-03, Bomanlon BV-04, Bomanlon BV-05, Bomanlon BV-06, Bomanlon BV-07, Bomanlon BV-08, Bomanlon BV-09, Bomanlon BV-10, Bomanlon BL-01, Bomanlon BL-02, Bomanlon BL-03, Bomanlon BL-04, Bomanlon BL-05, Bomanlon BL-06, Bomanlon BL-07, Bomanlon BL-08, Bomanlon BL-09, Bomanlon BL-10, Bomanlon BL-11, Bomanlon BL-12, Bomanlon BL-13, Bomanlon BL-14, Bomanlon BL-15, Bomanlon BL-16, Bomanlon BS-01, Bomanlon BS-02, Bomanlon BS-03, Bomanlon BS-04, Bomanlon BS-05, Bomanlon BS-06, Bomanlon BS-07, Bomanlon BS-08, Bomanlon BS-09, Bomanlon BS-10
Trade Mark	:	BOMANLON
Power Supply	:	Input: 5V⎓1A
Test Date	:	Apr. 30, 2026 to May 22, 2026
Test Standard(s)	:	**EN IEC 62311:2020** **EN 50665:2017**
Test Result	:	**PASS**

This device described above has been tested by CCTI, and the test results show that the equipment under test (EUT) is in compliance with the 2014/53/EU RED Directive Art.3.1(a) requirements. The results shown in this test report refer only to the sample(s) tested unless other wise stated and the sample(s) are retained for 30 days only.

The document is issued by CCTI, may be altered or revised by CCTI, personal only, and shall be noted in the revision of the document. this document cannot be reproduced except in full with our prior written permission.

Producer By : Betty Liang (Betty Liang / Engineer) **Date** : May 22, 2026

Authorized Signer : (Corey Mao / Manager) **Date** : May 22, 2026

SHENZHEN CCTI TECHNOLOGY CO., LTD. APPROVED

Revision History

Revision	Description	Issued Data	Remark
V0	Initial Test Report Release	Apr. 01, 2025	Corey Mao

1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

EUT Name	:	Smart Glasses
Model No.	:	Bomanlon BV-01
Series No.	:	Bomanlon BV-02, Bomanlon BV-03, Bomanlon BV-04, Bomanlon BV-05, Bomanlon BV-06, Bomanlon BV-07, Bomanlon BV-08, Bomanlon BV-09, Bomanlon BV-10, Bomanlon BL-01, Bomanlon BL-02, Bomanlon BL-03, Bomanlon BL-04, Bomanlon BL-05, Bomanlon BL-06, Bomanlon BL-07, Bomanlon BL-08, Bomanlon BL-09, Bomanlon BL-10, Bomanlon BL-11, Bomanlon BL-12, Bomanlon BL-13, Bomanlon BL-14, Bomanlon BL-15, Bomanlon BL-16, Bomanlon BS-01, Bomanlon BS-02, Bomanlon BS-03, Bomanlon BS-04, Bomanlon BS-05, Bomanlon BS-06, Bomanlon BS-07, Bomanlon BS-08, Bomanlon BS-09, Bomanlon BS-10
Model Difference	:	The product is different for model number and outlook.
Trademark	:	BOMANLON
Product Description	:	The EUT is Smart Router /Gateway EDR Operation Frequency: 2402-2480MHz Modulation Type: GFSK, π/4 DQPSK, 8DPSK Antenna Designation: Internal Antenna Antenna Gain(Peak) 0dBi BLE Operation Frequency: 2402-2480MHz Modulation Type: GFSK Antenna Designation: Internal Antenna Antenna Gain(Peak) 0dBi WIFI 2.4G Operation Frequency: IEEE 802.11b/g/n20: 2412-2472MHz Modulation Type: DSSS, OFDM Antenna Designation: Internal Antenna Antenna Gain(Peak) 0dBi Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.
Channel List	:	Refer to above
Hardware Version	:	V1.0
Software Version	:	V1.0
Power supply	:	Input: 5V⎓1A

Note:
(1) Bomanlon BV-01 was selected as the test model and the datas have been recorded in this report.
(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
(3) Antenna gain Refer to the antenna specifications.
(4) The cable loss data is obtained from the supplier.
(5) The test results in the report only apply to the tested sample.

2. EN IEC 62311 & EN 50665 REQUIREMENT

2.1. GENERAL INFORMATION

According to its specifications, the EUT must comply with the requirements of the following standards:

EN IEC 62311:2020[Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (0 Hz to 300 GHz)]

EN 50665:2017[Generic standard for assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)]

2.2. LIMIT

The equipment is deemed to fulfil the requirements of this document if the values obtained by the assessment are less than or equal to the limits and if the actual assessment uncertainty is less than or equal to the maximum uncertainty specified for the applied assessment method(s). If the actual assessment uncertainty is larger than the maximum uncertainty then the procedure given in 6.2 shall be applied.

3. RESULT

3.1. Summary of Results

Limit (W/ m²)	Result (W/ m²)	Verdict
10	0.0142	PASS

3.2. MPE Evaluation

$S = PG / 4\pi R^2$

P = Power input to antenna

G = Antenna Gain

R = distance to the center of radiation of antenna (in meter) = 0.2 m

π = 3.142

The maximum power density at a distance of 0.2 m for EUT is shown as below:

Operation Mode	Max. EIRP (mW)	Antenna Gain (dBi)	R (m)	S (W/m^2)	Limit (W/m^2)	Conclusion
EDR	5.92	0	0.2	0.0118	10	PASS
BLE	0.25	0	0.2	0.0005	10	PASS
WIFI2.4G	7.16	0	0.2	0.0142	10	PASS

3.3. Measurement Uncertainty

Extended Uncertainty (k=2) 95% 0.5dB

APPENDIX I -- STATEMENT

1. The equipment lists are traceable to the national reference standards.

2. The test report can not be partially copied unless prior written approval is issued from our lab.

3. The test report is invalid without the "special seal for inspection and testing".

4. The test report is invalid without the signature of the approver.

5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

※※※※※ **END OF REPORT** ※※※※※

RED-EMC
TEST REPORT

Client Name	:	Shenzhen Blue Vision Corporation Limited
Address	:	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.
Product Name	:	Smart Glasses
Test Model No.	:	Bomanlon BV-01
Report No.	:	CCTI260427107E1-R1
Issued Date	:	May 22, 2026

Prepared By	:	Shenzhen CCTI Technology Co., Ltd.
Address	:	A1-1, Building B1&B2, No.45 Gangtou Road, Bogang District, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Contact Info	:	Service Tel : 0086-400-188-9662
		CCTI E-mail : ccti@ccti-lab.com
		CCTI Web : www.ccti-lab.com

Scan code for report

TEST REPORT VERIFICATION

Applicant	:	Shenzhen Blue Vision Corporation Limited
Address	:	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.
Manufacturer	:	Shenzhen Blue Vision Corporation Limited
Address	:	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.
Product Name	:	Smart Glasses
Test Model No.	:	Bomanlon BV-01
Series No.	:	Bomanlon BV-02, Bomanlon BV-03, Bomanlon BV-04, Bomanlon BV-05, Bomanlon BV-06, Bomanlon BV-07, Bomanlon BV-08, Bomanlon BV-09, Bomanlon BV-10, Bomanlon BL-01, Bomanlon BL-02, Bomanlon BL-03, Bomanlon BL-04, Bomanlon BL-05, Bomanlon BL-06, Bomanlon BL-07, Bomanlon BL-08 ,Bomanlon BL-09, Bomanlon BL-10, Bomanlon BL-11, Bomanlon BL-12, Bomanlon BL-13, Bomanlon BL-14, Bomanlon BL-15, Bomanlon BL-16, Bomanlon BS-01, Bomanlon BS-02, Bomanlon BS-03, Bomanlon BS-04, Bomanlon BS-05, Bomanlon BS-06, Bomanlon BS-07, Bomanlon BS-08, Bomanlon BS-09, Bomanlon BS-10
Trade Mark	:	BOMANLON
Power Supply	:	Input: 5V⎓1A
Test Date	:	Apr. 27, 2026 to May 07, 2026
Test Standard(s)	:	**ETSI EN 301 489-1 V2.2.3 (2019-11)** **ETSI EN 301 489-17 V3.3.1 (2024-09)** **EN 55032:2015+A1:2020+A11:2020** **EN 55035:2017+A11:2020**
Test Result	:	**PASS**

This device described above has been tested by CCTI, and the test results show that the equipment under test (EUT) is in compliance with the 2014/53/EU RED Directive Art.3.1(b) requirements. The results shown in this test report refer only to the sample(s) tested unless other wise stated and the sample(s) are retained for 30 days only.

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Producer By : Betty Liang Date : May 22, 2026

(Betty Liang / Engineer)

Authorized Signer : Date : May 22, 2026

(Corey Mao / Manager)

SHENZHEN CCTI TECHNOLOGY CO., LTD. APPROVED

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Revision History

Revision	Description	Issued Data	Remark
V0	Initial Test Report Release	Apr. 01, 2025	Corey Mao

1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission		
Test Item	Standard	Result
Radiated Emission	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.1 EN 55032:2015+A1:2020+A11:2020 Annex A.2	P
Conducted Emission (AC Mains)	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.1 EN 55032:2015+A1:2020+A11:2020 Annex A.3	N/A
Conducted Emission (Telecommunication Ports)	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.1 EN 55032:2015+A1:2020+A11:2020 Annex A.3	N/A
EMC Immunity		
Test Item	Standard	Result
Electrostatic Discharge	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.2	P
RF Electromagnetic Field	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.2	P
Fast Transients Common Mode	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.2	N/A
RF Common Mode 0,15 MHz to 80 MHz	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.2	N/A
Transients and Surges	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.2	N/A
Voltage Dips and Interruptions	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.2	N/A
Surges, Line to Line and Line to Ground	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.2	N/A

NOTE:

(1) P is an abbreviation for Pass, F is an abbreviation for Fail, N/A is an abbreviation for Not Applicable.

(2) The power consumption of EUT is less than 75W and no Limits apply.

(3) Decision rules for the conclusion of this test report: decision by actual test data without considering measurement uncertainty.

1.1. Test Facility

Shenzhen CCTI Technology Co., Ltd.

A1-1, Building B1&B2, No.45 Gangtou Road, Bogang District, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

1.2. Test Uncertainty

The reported uncertainty of measurement **y ± U**, where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95 %**.

A. Conducted Measurement:

Measurement Frequency Range	Uncertainty	NOTE
150 KHz ~ 30MHz	±2.71dB	

B. Radiated Measurement:

Measurement Frequency Range	Uncertainty	NOTE
30MHz ~ 1000MHz	±3.90dB	
1GHz ~ 18GHz	±4.28dB	
18GHz ~ 40GHz	±5.54dB	

2. GENERAL INFORMATION

2.1. General Description of EUT

EUT	:	Smart Glasses
Trademark	:	BOMANLON
Model Number	:	Bomanlon BV-01
Serial Model	:	Bomanlon BV-02, Bomanlon BV-03, Bomanlon BV-04, Bomanlon BV-05, Bomanlon BV-06, Bomanlon BV-07, Bomanlon BV-08, Bomanlon BV-09, Bomanlon BV-10, Bomanlon BL-01, Bomanlon BL-02, Bomanlon BL-03, Bomanlon BL-04, Bomanlon BL-05, Bomanlon BL-06, Bomanlon BL-07, Bomanlon BL-08 ,Bomanlon BL-09, Bomanlon BL-10, Bomanlon BL-11, Bomanlon BL-12, Bomanlon BL-13, Bomanlon BL-14, Bomanlon BL-15, Bomanlon BL-16, Bomanlon BS-01, Bomanlon BS-02, Bomanlon BS-03, Bomanlon BS-04, Bomanlon BS-05, Bomanlon BS-06, Bomanlon BS-07, Bomanlon BS-08, Bomanlon BS-09, Bomanlon BS-10
Model Difference	:	The product is different for model number
Operation frequency	:	EDR/BLE 2402-2480MHz 2.4G WIFI: 2412MHz~2472MHz (802.11b:13/802.11g:13/802.11n HT20:13)
Modulation	:	EDR/BLE: GFSK, π/4 DQPSK, 8DPSK 2.4G WIFI: DSSS, OFDM,
Hardware Version	:	V1.0
Software Version	:	V1.0
Antenna Type	:	Internal Antenna
Power Supply	:	Input: 5V⎓1A
Intend use environment	:	Residential, commercial and light industrial environment

Remark:

(1) Bomanlon BV-01 was selected as the test model and the datas have been recorded in this report.

(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.2. Description of Test Modes

Pretest Mode	Description
Mode 1	Running

2.3. Description of Test Setup

Mode 1:



2.4. Description Test Peripheral and EUT Peripheral

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Trade Mark	Model/Type No.	Series No.	Note
E-1	Smart Glasses	BOMANLON	Bomanlon BV-01	Bomanlon BV-02, Bomanlon BV-03, Bomanlon BV-04, Bomanlon BV-05, Bomanlon BV-06, Bomanlon BV-07, Bomanlon BV-08, Bomanlon BV-09, Bomanlon BV-10, Bomanlon BL-01, Bomanlon BL-02, Bomanlon BL-03, Bomanlon BL-04, Bomanlon BL-05, Bomanlon BL-06, Bomanlon BL-07, Bomanlon BL-08 ,Bomanlon BL-09, Bomanlon BL-10, Bomanlon BL-11, Bomanlon BL-12, Bomanlon BL-13, Bomanlon BL-14, Bomanlon BL-15, Bomanlon BL-16, Bomanlon BS-01, Bomanlon BS-02, Bomanlon BS-03, Bomanlon BS-04, Bomanlon BS-05, Bomanlon BS-06, Bomanlon BS-07, Bomanlon BS-08, Bomanlon BS-09, Bomanlon BS-10	EUT

Item	Shielded Type	Ferrite Core	Length	Note
N/A	N/A	N/A	N/A	N/A

Note:

(1) The support equipment was authorized by Declaration of Confirmation.

(2) For detachable type I/O cable should be specified the length in cm in『Length』column.

(3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

3. TEST INSTRUMENT USED

3.1. Conducted Emissions

Item	Equipment	Manufacturer	Type No.	Serial No.	Last Cal.	Next Cal.
1	LISN	R&S	ENV216	ZJE-012	2025.07.12	2026.07.11
2	LISN	R&S	ENV216	ZJE-013	2025.07.12	2026.07.11
3	EMI Test Receiver	R&S	ESCI3	ZJE-011	2025.07.12	2026.07.11
4	ISN	ETC	NTFM8158	ZJE-041	2025.07.12	2026.07.11
5	Conduction test software	Frad	EZ-CON	ZJE-014	/	/

3.2. Radiated Emissions

Item	Equipment	Manufacturer	Type No.	Serial No.	Last Cal.	Next Cal.
1	966 Chamber	Yiheng	9*6*6	ZJE-001	2025.07.12	2028.07.11
2	Broadband antenna	Schwarzbeck	VULB 9163	ZJE-004	2025.07.12	2026.07.11
3	Horn antenna	Schwarzbeck	9120D-1141	ZJE-005	2025.07.12	2026.07.11
4	EMI Test Receiver	R&S	ESCI7	ZJE-003	2025.07.12	2026.07.11
5	Spectrum Analyzer	Agilent	N9020A	ZJE-024	2025.07.12	2026.07.11
6	Low Frequency Amplifier	Agilent	8447D	ZJE-006	2025.07.12	2026.07.11
7	High Frequency Amplifier	Quanjuda	AMP 1-18	ZJE-007	2025.07.12	2026.07.11
8	Radiated test software	Frad	EZ-RE	ZJE-008	/	/

3.3. Electrostatic Discharge

Item	Equipment	Manufacturer	Type No.	Serial No.	Last Cal.	Next Cal.
1	ESD Device	TESEQ	NSG437	ZJE-018	2025.07.12	2026.07.11

3.4. Radio Frequency Electromagnetic Fields

Item	Equipment	Manufacturer	Type No.	Serial No.	Last Cal.	Next Cal.
1	Power amplifier	Micotop	MPA-80-1000-250	ZJE-026	2025.07.12	2026.07.11
2	Power amplifier	Micotop	MPA-1000-6000-100	ZJE-027	2025.07.12	2026.07.11
3	Power Meter	KEYSIGHT	E4419B	ZJE-028	2025.07.12	2026.07.11
4	Signal Generator	Agilent	N5181A	ZJE-029	2025.07.12	2026.07.11
5	Field intensity probe	NARDA	EP601	ZJE-030	2025.07.12	2026.07.11
6	High gain antenna	Schwarzbeck	STPL9129	ZJE-031	2025.07.12	2026.07.11
7	RS Test Software	Tonscend	JS35-RS 5.0.0	ZJE-032	/	/

3.5. Surge, EFT/Burst, Voltage Interruption/Dips

Item	Equipment	Manufacturer	Type No.	Serial No.	Last Cal.	Next Cal.
1	Combined Interference Generator	Prima	JMB-2KVA	ZJE-019	2025.07.12	2026.07.11
2	Pulse coupling clamp	Prima	PEFT-C105	ZJE-021	2025.07.12	2026.07.11
3	Circumferential Dropout Generator	Prima	PDRP-10T1	ZJE-022	2025.07.12	2026.07.11

3.6. Injection Current

Item	Equipment	Manufacturer	Type No.	Serial No.	Last Cal.	Next Cal.
1	Magnetic clamp	TESEQ	KZMZ 801	ZJE-033	2025.07.12	2026.07.11
2	Conducted Immunity Test System	TESEQ	NSG4070	ZJE-034	2025.07.12	2026.07.11
3	Coupling decoupling network	TESEQ	CDN M2+M3-16A	ZJE-035	2025.07.12	2026.07.11

4. EMC EMISSION TEST

4.1. Conducted Emission Measurement

4.1.1. Limits of Conducted Emission Measurement

Power line Ports

Please refer to ETSI EN 301 489-1 Clause 8.4.3
The equipment shall meet the class B limits given in CENELEC EN 55032 [1], annex A table A.10.
Alternatively, for equipment intended to be used in an industrial environment or a telecommunication centre, the class A limits given in CENELEC EN 55032 [1], annex A table A.9 can be used.
If EUT is also a FM Receiver, it shall meet CENELEC EN 55032 [3], annex A tables A.13

Telecommunication Ports

Please refer to ETSI EN 301 489-1 Clause 8.7.3
The wired network ports shall meet the class B limits given in CENELEC EN 55032 [1], annex A table A.12.
Alternatively, for equipment intended to be used exclusively in an industrial environment or a telecommunication centre, the class A limits given in CENELEC EN 55032 [1] annex A table A.11 can be used.

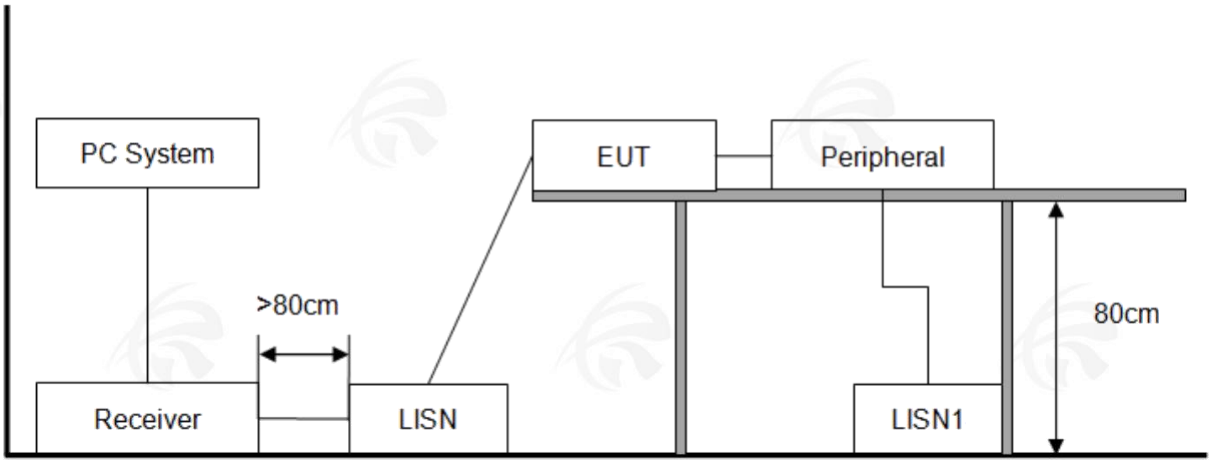
4.1.2. Test Procedure

Power line Ports
Please refer to ETSI EN 301 489-1 Clause 8.4.3 and EN 55032 Clause 5 for the measurement methods.

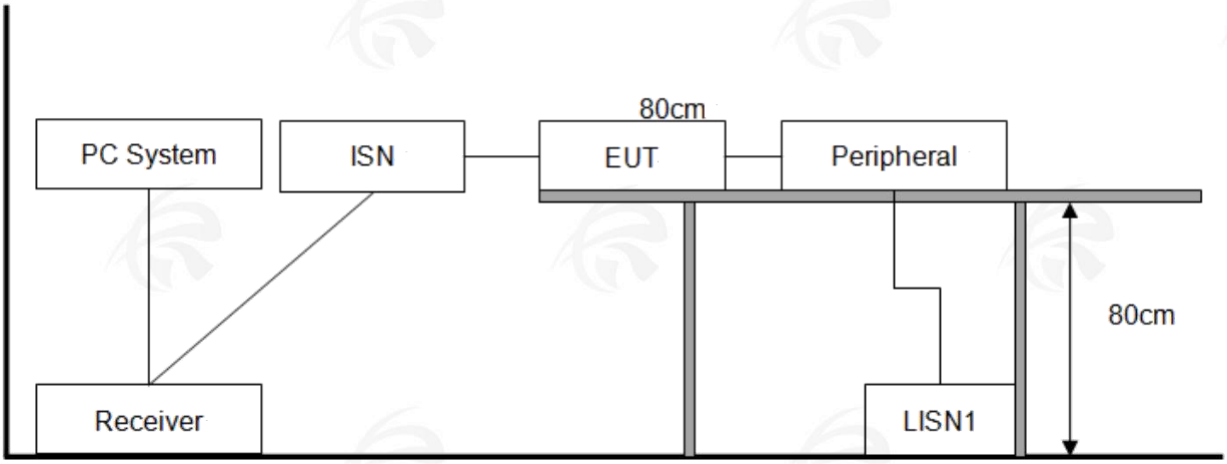
Telecommunication Ports
Please refer to ETSI EN 301 489-1 Clause 8.7.2 and The test method shall be in accordance with CENELEC EN 55032 [1], annex A.3. for the measurement methods.

4.1.3. Test Setup

Power line



Telecommunication ports



4.1.4. EUT Operating Conditions

The EUT tested system was configured as the statements of 2.2 Unless otherwise a special operating condition is specified in the follows during the testing.

4.1.5. Test Result

Note: This EUT (device) is not equipped with a device having a DC power interface, and this device is not powered by a dedicated AC/DC power converter.

4.2. Radiated Emission Measurement

4.2.1. Limits of Radiated Emission Measurement

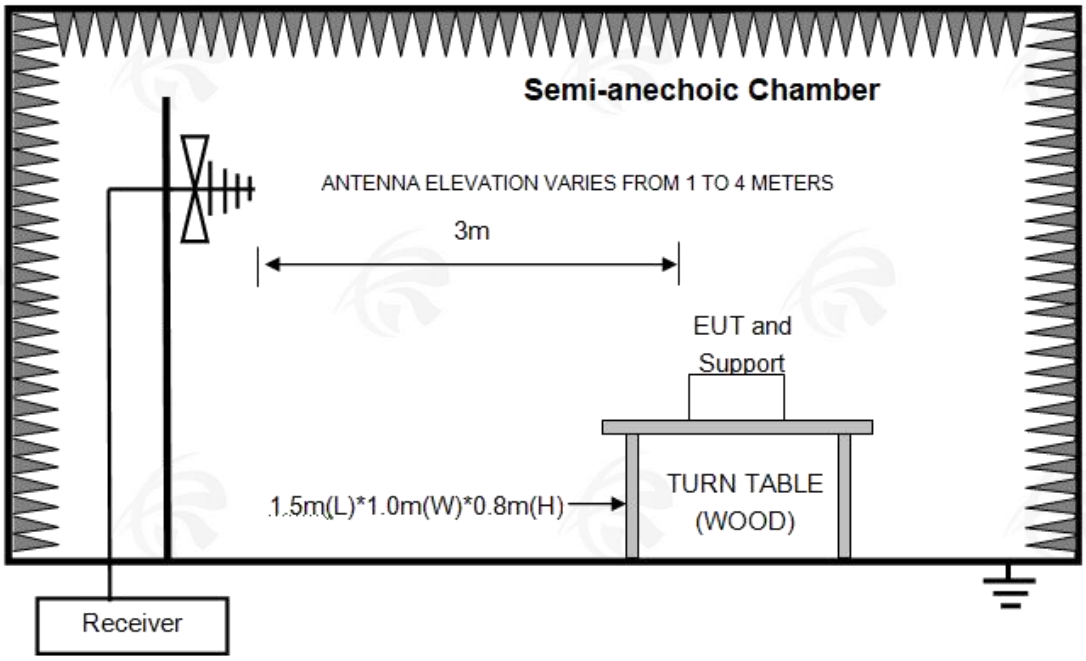
Please refer to ETSI EN 301 489-1 Clause 8.2.3
The ancillary equipment shall meet the class B limits given in CENELEC EN 55032 [1], annex A tables A.4 and A.5.
Alternatively, for ancillary equipment intended to be used exclusively in an industrial environment or telecommunication centers, the class A limits given in CENELEC EN 55032 [1], annex A tables A.2 and A.3 may be used.
If EUT is also a FM Receiver, it shall meet CENELEC EN 55032 [3], annex A tables A.6

4.2.2. Test Procedure

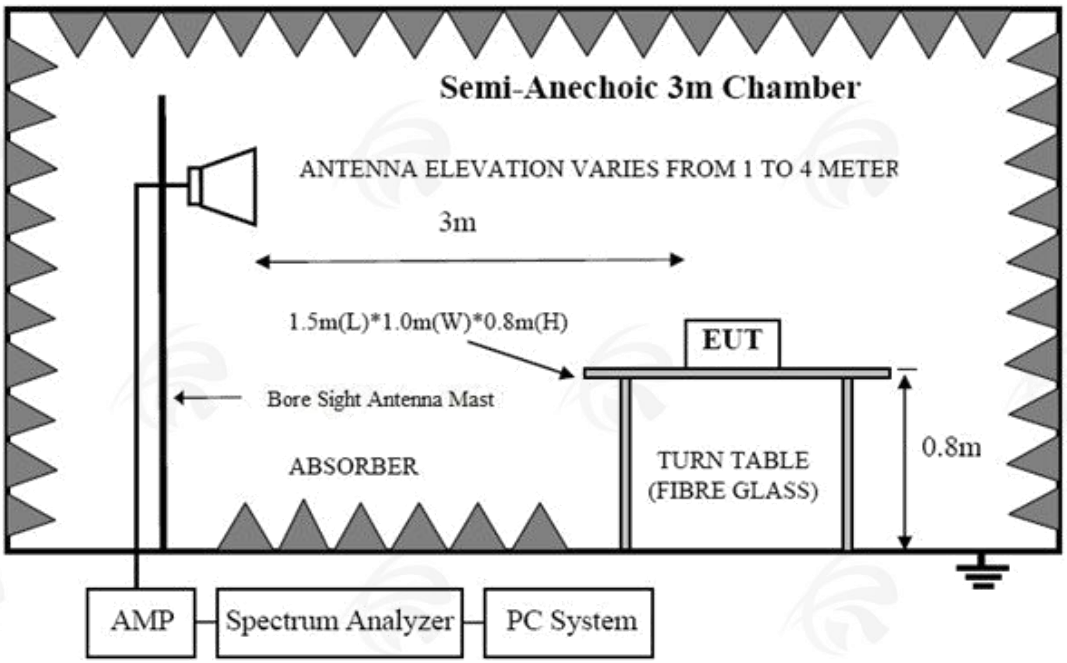
Please refer to ETSI EN 301 489-1 Clause 8.2.2 and The test method shall be in accordance with CENELEC EN 55032 [1], annex A.2. for the measurement methods.

4.2.3. Test Setup

Radiated Emission Test Set-Up Frequency (30~1000MHz)



Radiated Emission Test Set-Up Frequency(1000~6000MHz)



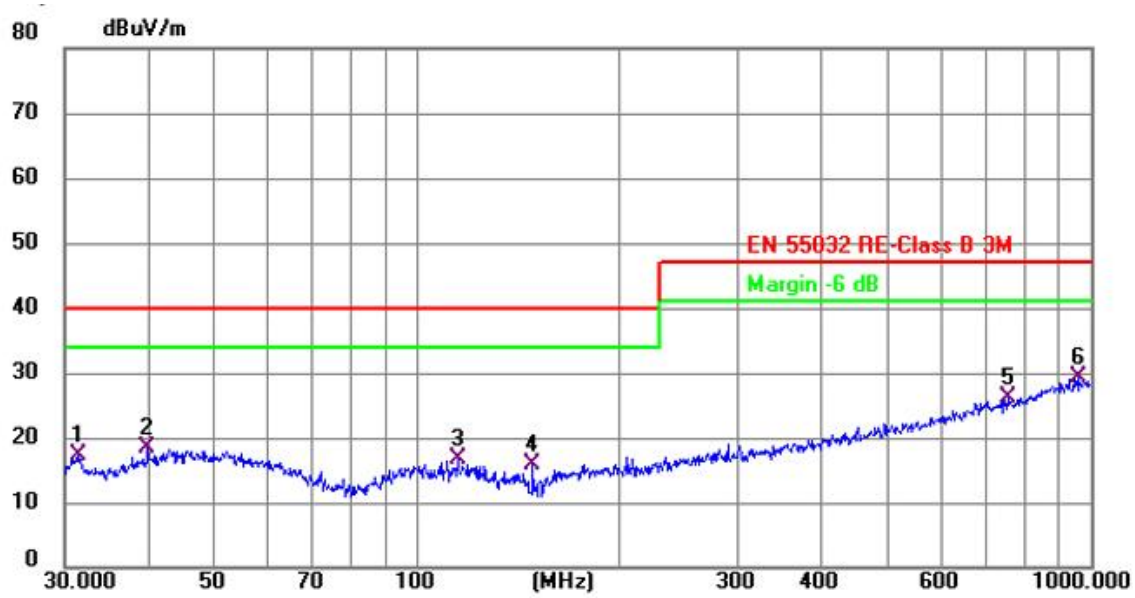
4.2.4. EUT Operating Conditions

The EUT tested system was configured as the statements of 2.2 Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.5. Test Result (30~1000MHz)

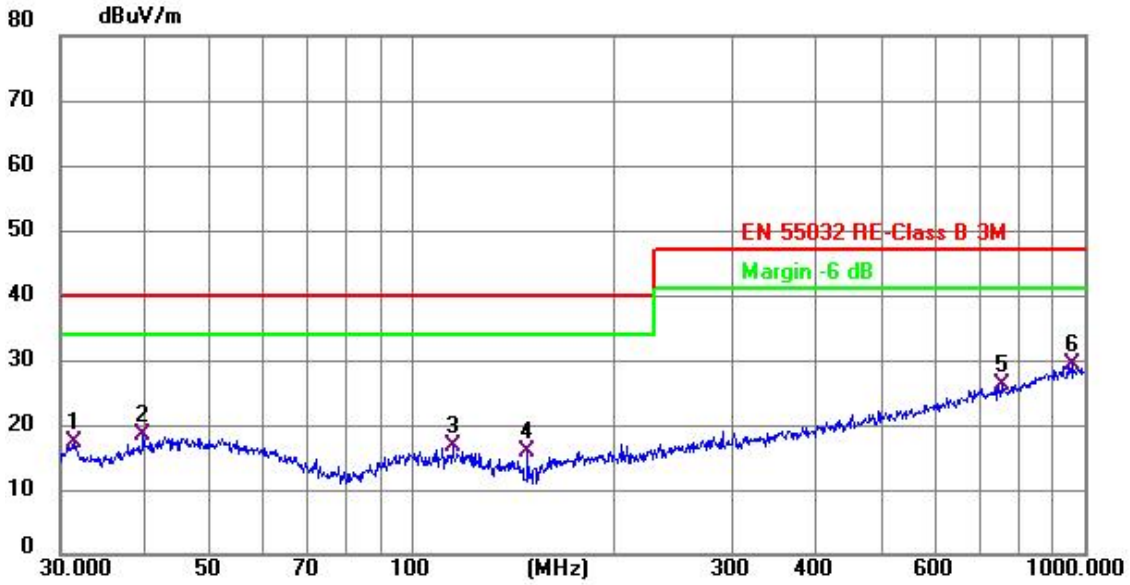
Note: All the test modes completed for test. Only the worst result of was reported.

Radiation Emission Test Data			
EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	26.2℃	Relative Humidity:	52%
Pressure:	1009hPa	Test Date:	Apr. 30, 2026
Test Mode:	Mode 1	Polarization:	Horizontal
Test Voltage:	DC 5V1A		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F
1	47.8260	44.98	-9.79	35.19	40.00	-4.81	QP	100	10	P
2	66.9670	48.86	-13.11	35.75	40.00	-4.25	QP	100	54	P
3	180.0164	47.45	-12.10	35.35	40.00	-4.65	QP	100	57	P
4	336.0351	52.00	-9.24	42.76	47.00	-4.24	QP	100	54	P
5	480.5276	50.79	-7.14	43.65	47.00	-3.35	QP	100	87	P
6	872.1832	43.62	-0.82	42.80	47.00	-4.20	QP	100	45	P

Radiation Emission Test Data			
EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	25.9℃	Relative Humidity:	49%
Pressure:	1009hPa	Test Date:	Apr. 30, 2026
Test Mode:	Mode 1	Polarization:	Vertical
Test Voltage:	DC 5V1A		

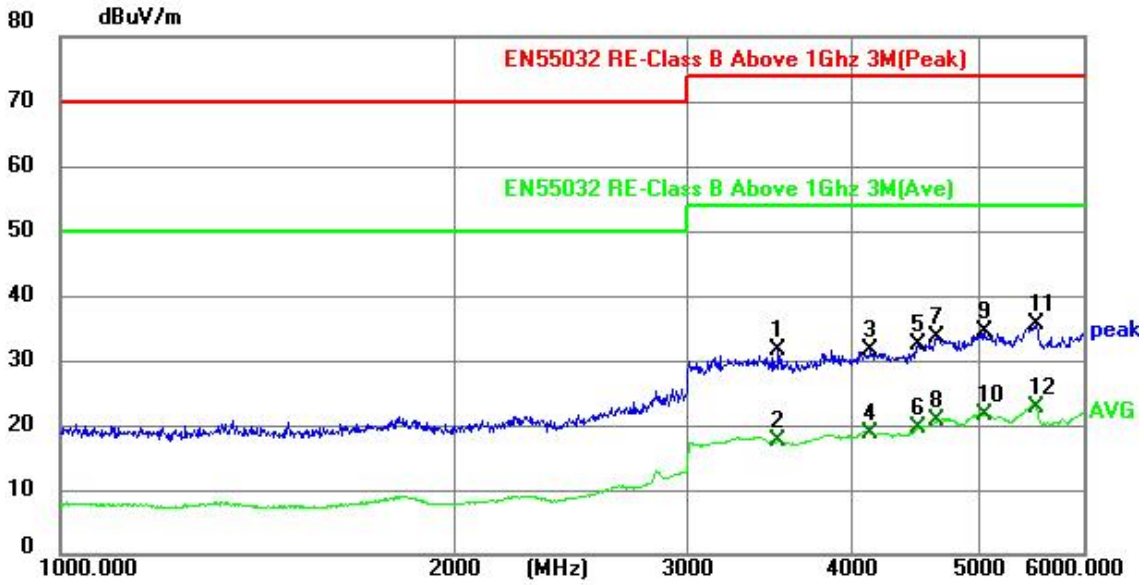


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F
1	31.3992	29.62	-12.38	17.24	40.00	-22.76	QP	100	349	P
2	39.8542	29.02	-10.73	18.29	40.00	-21.71	QP	100	323	P
3	114.9169	28.49	-11.88	16.61	40.00	-23.39	QP	100	0	P
4	148.4410	30.71	-14.87	15.84	40.00	-24.16	QP	100	305	P
5	755.3873	29.13	-2.97	26.16	47.00	-20.84	QP	100	150	P
6	958.7943	29.27	0.13	29.40	47.00	-17.60	QP	100	293	P

4.2.6. Test Result (1000~6000MHz)

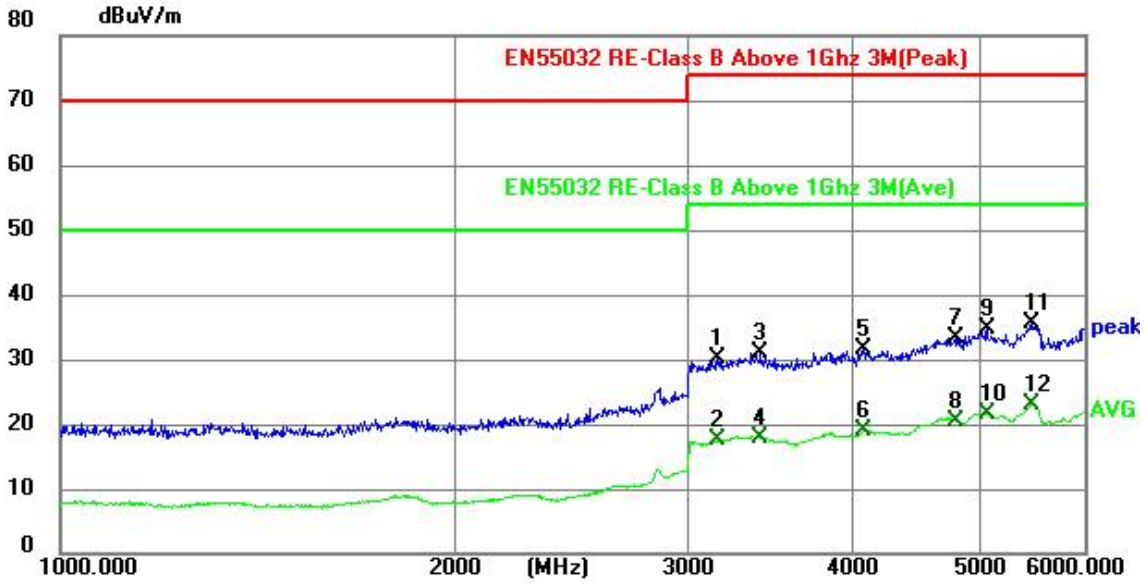
Note: All the test modes completed for test. Only the worst result of was reported.

Radiation Emission Test Data			
EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	26℃	Relative Humidity:	52%
Pressure:	1009hPa	Test Date:	Apr. 30, 2026
Test Mode:	Mode 1	Polarization:	Horizontal
Test Voltage:	DC 5V1A		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F
1	3517.7274	54.18	-22.48	31.70	74.00	-42.30	peak	100	259	P
2	3517.7274	39.91	-22.48	17.43	54.00	-36.57	AVG	100	259	P
3	4133.2892	53.29	-21.68	31.61	74.00	-42.39	peak	100	224	P
4	4133.2892	40.42	-21.68	18.74	54.00	-35.26	AVG	100	224	P
5	4488.3917	53.36	-20.82	32.54	74.00	-41.46	peak	100	84	P
6	4488.3917	40.49	-20.82	19.67	54.00	-34.33	AVG	100	84	P
7	4643.8226	54.05	-20.46	33.59	74.00	-40.41	peak	100	49	P
8	4643.8226	41.04	-20.46	20.58	54.00	-33.42	AVG	100	49	P
9	5051.8300	53.94	-19.54	34.40	74.00	-39.60	peak	100	109	P
10	5051.8300	41.22	-19.54	21.68	54.00	-32.32	AVG	100	109	P
11	5525.3055	54.56	-19.07	35.49	74.00	-38.51	peak	100	329	P
12	5525.3055	41.76	-19.07	22.69	54.00	-31.31	AVG	100	329	P

Radiation Emission Test Data			
EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	26℃	Relative Humidity:	52%
Pressure:	1009hPa	Test Date:	Apr. 30, 2026
Test Mode:	Mode 1	Polarization:	Vertical
Test Voltage:	DC 5V1A		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F
1	3153.5154	53.05	-22.84	30.21	74.00	-43.79	peak	100	284	P
2	3153.5154	40.33	-22.84	17.49	54.00	-36.51	AVG	100	284	P
3	3406.0848	53.72	-22.60	31.12	74.00	-42.88	peak	100	293	P
4	3406.0848	40.59	-22.60	17.99	54.00	-36.01	AVG	100	293	P
5	4081.7719	53.31	-21.81	31.50	74.00	-42.50	peak	100	21	P
6	4081.7719	40.77	-21.81	18.96	54.00	-35.04	AVG	100	21	P
7	4787.4493	53.40	-20.11	33.29	74.00	-40.71	peak	100	353	P
8	4787.4493	40.68	-20.11	20.57	54.00	-33.43	AVG	100	353	P
9	5060.8898	54.27	-19.53	34.74	74.00	-39.26	peak	100	205	P
10	5060.8898	41.02	-19.53	21.49	54.00	-32.51	AVG	100	205	P
11	5466.2235	54.73	-19.14	35.59	74.00	-38.41	peak	100	56	P
12	5466.2235	42.08	-19.14	22.94	54.00	-31.06	AVG	100	56	P

5. EMC IMMUNITY TEST

5.1. General Performance Criteria

During the test, the equipment shall:

- continue to operate as intended;
- not unintentionally transmit;
- not unintentionally change its operating state;
- not unintentionally change critical stored data..

5.2. General Performance Criteria Test Setup

The EUT tested system was configured as the statements of 2.2 Unless otherwise a special operating condition is specified in the follows during the testing.

5.3. Electrostatic Discharge Immunity Test

5.3.1. Test Specification

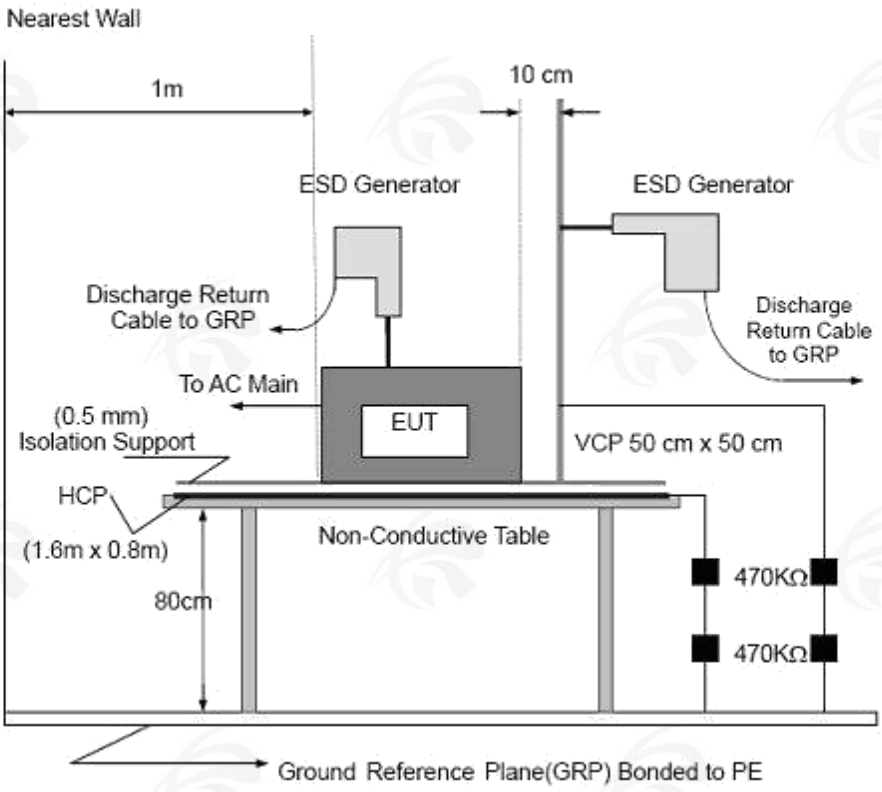
Basic Standard: IEC/EN 61000-4-2

Discharge Impedance:	330 ohm / 150 pF
Required Performance:	B
Discharge Voltage:	Air Discharge：2kV/4kV/8kV (Direct) Contact Discharge：2kV/4kV (Direct/Indirect)
Polarity:	Positive & Negative

5.3.2. Test Procedure

Please refer to ETSI EN 301 489-1 Clause 9.3.2 and EN 61000-4-2 for the measurement methods.

5.3.3. Test Setup



5.3.4. Test Result

Note: All the test modes completed for test. Only the worst result of was reported.

Electrostatic Discharge Test Data			
EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24.5 ℃	Relative Humidity:	51%
Pressure:	1009hPa	Test Date:	May 06, 2026
Test Mode:	Mode 1	Test Voltage:	DC 5V1A

Mode	Air Discharge								Contact Discharge								Criterion	Result
Test level (kV)	4		8		10		15		2		4		6		8			
Test Location	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-		
HCP									A	A	A	A					B	**PASS**
VCP									A	A	A	A						**PASS**
Metallic parts									A	A	A	A						**PASS**
gap	A	A	A	A														**PASS**
Enclosure	A	A	A	A														**PASS**

Note:

1. +/- denotes the Positive/Negative polarity of the output voltage.
2. Test condition:
   Direct / Indirect (HCP/VCP) discharges: Minimum 50 times (Positive/Negative) at each Point.
   Air discharges: Minimum 10 times (Positive/Negative) at each point.
3. The Indirect (HCP/VCP) discharges description of test point as following:
   1.left side 2.right side 3.front side 4.rear side
4. N/A - denotes test is not applicable in this test report.

5.4. Radio Frequency Electromagnetic Fields Test

5.4.1. Test Specification

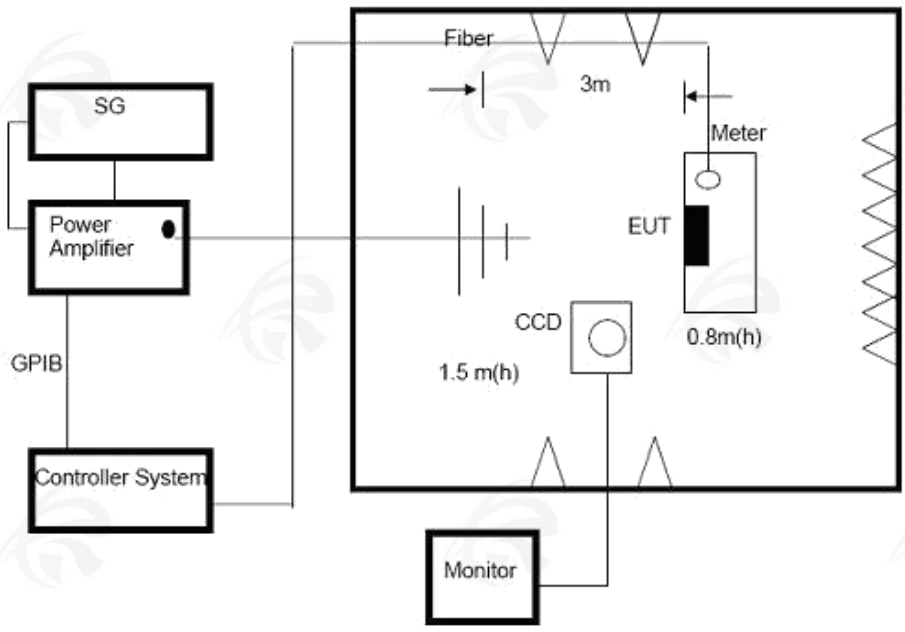
Basic Standard: IEC/EN IEC 61000-4-3

Required Performance:	A
Frequency Range:	80 MHz - 6000 MHz, 1800(±1%)MHz, 2600(±1%)MHz, 3500(±1%)MHz, 5000(±1%)MHz
Field Strength:	3 V/m
Modulation:	1kHz Sine Wave, 80%, AM Modulation

5.4.2. Test Procedure

Please refer to ETSI EN 301 489-1 Clause 9.2.2 and EN IEC 61000-4-3 for the measurement methods.

5.4.3. Test Setup



5.4.4. Test Result

Note: All the test modes completed for test. Only the worst result of was reported.

Radio Frequency Electromagnetic Fields Test Data			
EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24.5 ℃	Relative Humidity:	51%
Pressure:	1009hPa	Test Date:	May 06, 2026
Test Mode:	Mode 1	Test Voltage:	DC 5V1A

Frequency Range (MHz)	RF Field Position	R.F. Field Strength	Azimuth	Perform. Criteria	Results	Judgment
80-6000, 1800 (±1%), 2600 (±1%), 3500 (±1%), 5000 (±1%)	H / V	3 V/m (rms) AM Modulated 1000Hz, 80%	Front	**A**	**A**	**PASS**
			Rear			
			Left			
			Right			

Note:
1. N/A - denotes test is not applicable in this test report.

5.5. Fast Transients Immunity Test

5.5.1. Test Specification

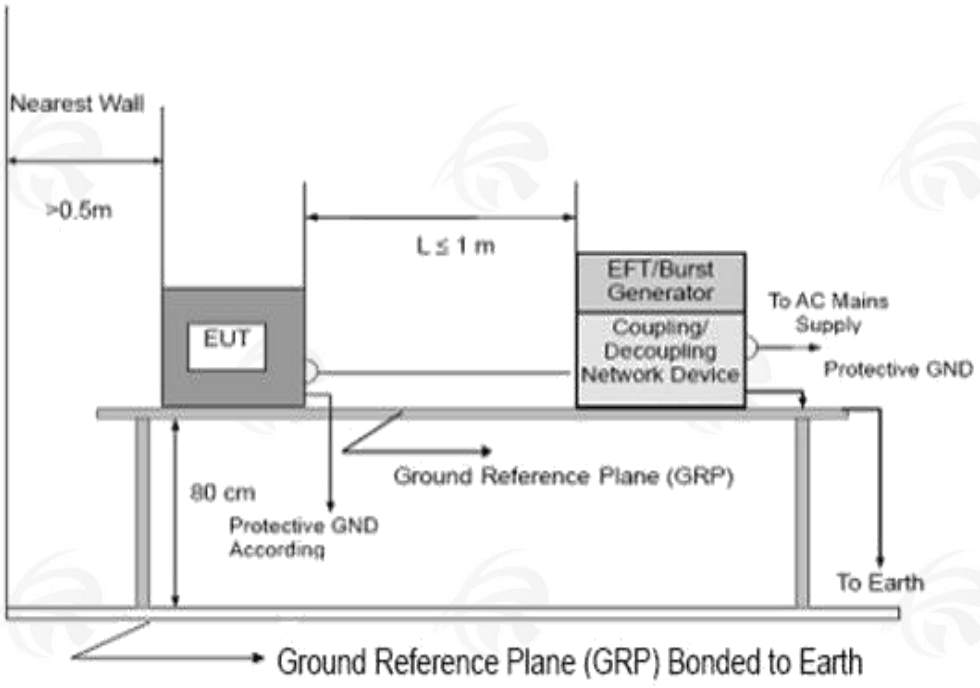
Basic Standard: IEC/EN IEC 61000-4-4

Required Performance:	B
Test Voltage:	Power Line：1 kV Signal/Control Line：0.5 kV
Polarity:	Positive & Negative

5.5.2. Test Procedure

Please refer to ETSI EN 301 489-1 Clause 9.4.2 and EN 61000-4-4 for the measurement methods.

5.5.3. Test Setup



5.5.4. Test Result

Note: The test isn’t applicable because the EUT has no have relative function.

5.6. Surges Immunity Test

5.6.1. Test Specification

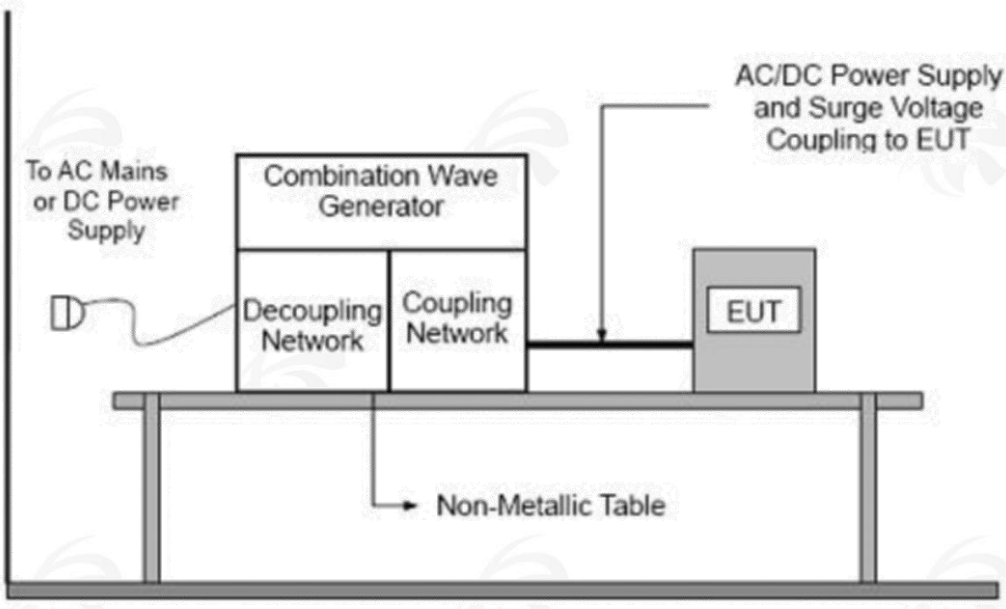
Basic Standard: IEC/EN IEC 61000-4-5

Required Performance:	B
Wave-Shape:	Combination Wave 1.2/50 us Open Circuit Voltage 8 /20 us Short Circuit Current
Test Voltage:	Power Line：0.5 kV, 1 kV, 2 kV

5.6.2. Test Procedure

Please refer to ETSI EN 301 489-1 Clause 9.4.2 and EN 61000-4-5 for the measurement methods.

5.6.3. Test Setup



5.6.4. Test Result

Note: All the test modes completed for test. Only the worst result of was reported.

5.7. Injected Currents Immunity Test

5.7.1. Test Specification

Basic Standard: IEC/EN IEC 61000-4-6

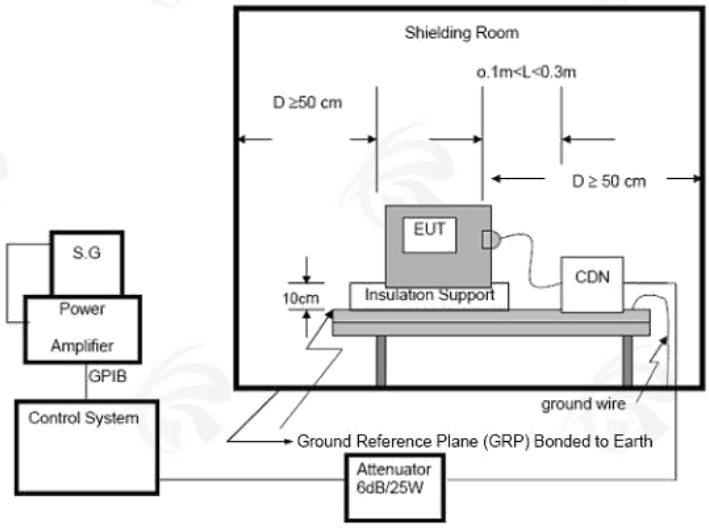
Required Performance:	A
Frequency Range:	0.15-80 MHz
Field Strength:	3 V r.m.s
Modulation:	1kHz Sine Wave, 80%, AM Modulation

5.7.2. Test Procedure

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1.5m*1m min. And 0.25mm aluminum thickness.
The other condition as following manner:

The frequency range is swept from 150 kHz to 80 MHz, using the signal levels (forward power) established during the setting process, and with the disturbance signal 80 % amplitude modulated with a 1 kHz sine wave, pausing to adjust the RF signal level or to change coupling devices as necessary. Where the frequency is swept incrementally, the step size shall not exceed 1 % of the preceding frequency value. The dwell time of the amplitude modulated carrier at each frequency shall not be less than the time necessary for the EUT to be exercised and to respond, but shall in no case be less than 0.5 s. Potentially sensitive frequencies shall be tested in addition to the maximum 1 % step size.

5.7.3. Test Setup



5.7.4. Test Result

Note: The test isn’t applicable because the EUT has no have relative function.

5.8. Voltage Dips and Interruptions Immunity Test

5.8.1. Test Specification

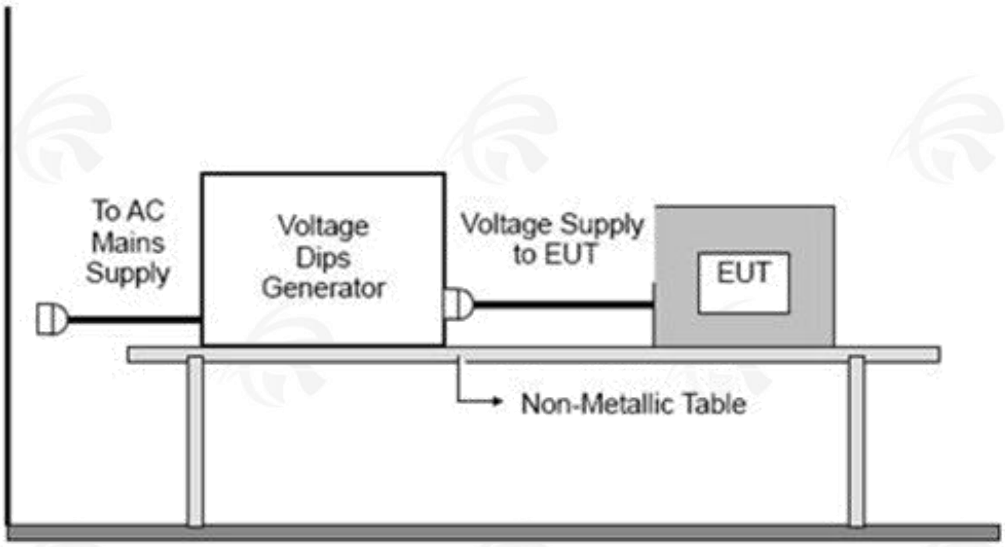
Basic Standard: IEC/EN IEC 61000-4-11

Required Performance	B (For 100% Voltage Dips) B (For 100% Voltage Dips) C (For 30% Voltage Dips) C (For 100% Voltage Interruptions)

5.8.2. Test Procedure

Please refer to ETSI EN 301 489-1 Clause 9.7.2 and EN IEC 61000-4-11 for the measurement methods.

5.8.3. Test Setup



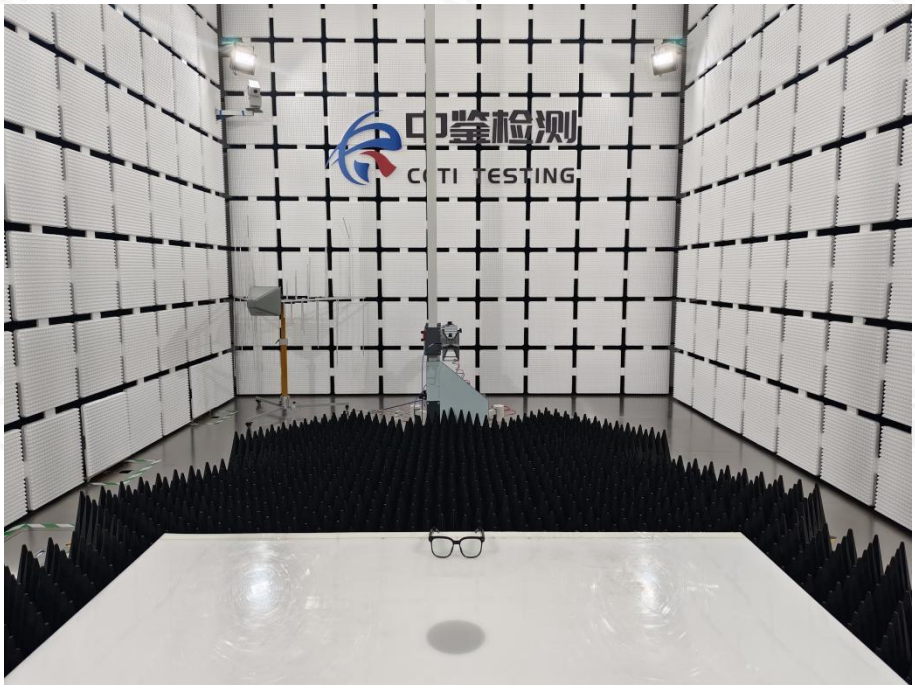
5.8.4. Test Result

Note: The test isn't applicable because the EUT has no have relative function.

APPENDIX I -- EUT TEST PHOTOGRAPHS



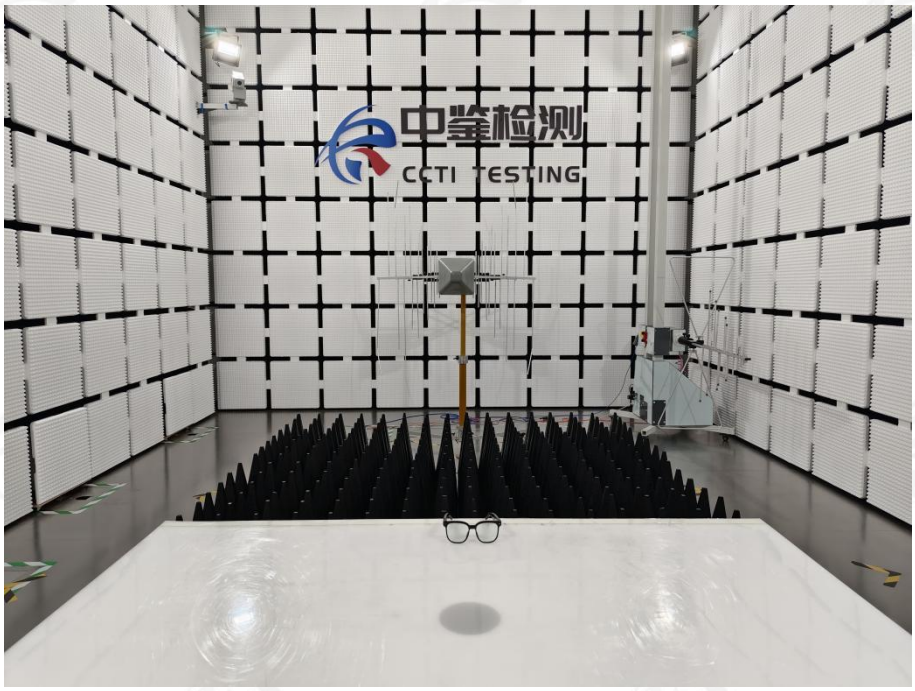
EUT TEST Photo 1 (Radiated Emission) (30~1000MHz)



EUT TEST Photo 2 (Radiated Emission) (1000~6000MHz)



EUT TEST Photo 3 (Electrostatic Discharge)



EUT TEST Photo 4 (Radio Frequency)

APPENDIX II -- EUT PHOTOGRAPHS

Please refer to the EUT Photo

APPENDIX III -- STATEMENT

1. The equipment lists are traceable to the national reference standards.

2. The test report can not be partially copied unless prior written approval is issued from our lab.

3. The test report is invalid without the "special seal for inspection and testing".

4. The test report is invalid without the signature of the approver.

5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

※※※※※ **END OF REPORT** ※※※※※

RED-RADIO

ETSI EN 300 328 V2.2.2 (2019-07)

TEST REPORT

Client Name	:	Shenzhen Blue Vision Corporation Limited
Address	:	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.
Product Name	:	Smart Glasses
Test Model No.	:	Bomanlon BV-01
Report No.	:	CCTI260427107W1-R1
Issued Date	:	May 22, 2026

Prepared By	:	Shenzhen CCTI Technology Co., Ltd.
Address	:	A1-1, Building B1&B2, No.45 Gangtou Road, Bogang District, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Contact Info	:	Service Tel : 0086-400-188-9662
		CCTI E-mail : ccti@ccti-lab.com
		CCTI Web : www.ccti-lab.com

Scan code for report

TEST REPORT VERIFICATION

Applicant	:	Shenzhen Blue Vision Corporation Limited
Address	:	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.
Manufacturer	:	Shenzhen Blue Vision Corporation Limited
Address	:	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.
Product Name	:	Smart Glasses
Test Model No.	:	Bomanlon BV-01
Series No.	:	Bomanlon BV-02, Bomanlon BV-03, Bomanlon BV-04, Bomanlon BV-05, Bomanlon BV-06, Bomanlon BV-07, Bomanlon BV-08, Bomanlon BV-09, Bomanlon BV-10, Bomanlon BL-01, Bomanlon BL-02, Bomanlon BL-03, Bomanlon BL-04, Bomanlon BL-05, Bomanlon BL-06, Bomanlon BL-07, Bomanlon BL-08, Bomanlon BL-09, Bomanlon BL-10, Bomanlon BL-11, Bomanlon BL-12, Bomanlon BL-13, Bomanlon BL-14, Bomanlon BL-15, Bomanlon BL-16, Bomanlon BS-01, Bomanlon BS-02, Bomanlon BS-03, Bomanlon BS-04, Bomanlon BS-05, Bomanlon BS-06, Bomanlon BS-07, Bomanlon BS-08, Bomanlon BS-09, Bomanlon BS-10
Trade Mark	:	BOMANLON
Power Supply	:	Input: 5V⎓1A
Test Date	:	Apr. 30, 2026 to May 22, 2026
Test Standard(s)	:	**ETSI EN 300 328 V2.2.2 (2019-07)**
Test Result	:	**PASS**

This device described above has been tested by CCTI, and the test results show that the equipment under test (EUT) is in compliance with the 2014/53/EU RED Directive Art.3.2 requirements. The results shown in this test report refer only to the sample(s) tested unless other wise stated and the sample(s) are retained for 30 days only.

The document is issued by CCTI, may be altered or revised by CCTI, personal only, and shall be noted in the revision of the document. this document cannot be reproduced except in full with our prior written permission.

Producer By : Betty Liang (Betty Liang / Engineer) **Date** : May 22, 2026

Authorized Signer : (Corey Mao / Manager) **Date** : May 22, 2026

SHENZHEN CCTI TECHNOLOGY CO., LTD. APPROVED

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Revision History

Revision	Description	Issued Data	Remark
V0	Initial Test Report Release	Apr. 01, 2025	Corey Mao

1. TEST SUMMARY

Test procedures according to the technical standards:

ETSI EN 300 328 V2.2.2 (2019-07): Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU.

No.	Test Item	Clause No.	Result
Transmitter Parameters			
1	RF Output Power	4.3.1.2	P
2	Power Spectral Density	4.3.2.3	P
3	Duty Cycle,Tx-sequence, Tx-gap	4.3.1.3	N/A
4	Dwell time, Min Freq.Occupation and Hopping Sequence	4.3.1.4	N/A
5	Hopping Separation	4.3.1.5	N/A
6	Medium Utilization	4.3.1.6	N/A
7	Adaptivity, Short Control Signalling Transmissions	4.3.1.7	N/A
8	Occupied Channel Bandwidth	4.3.1.8	P
9	Transmitter Unwanted Emissions In The Out-of-band Domain	4.3.1.9	P
10	Transmitter Unwanted Emissions In The Spurious Domain (Conducted & Radiated)	4.3.1.10	P
Receiver Parameters			
11	Receiver spurious emissions (conducted & radiated)	4.3.1.11	P
12	Receiver Blocking	4.3.1.12	P
13	Geo-location capability	4.3.1.13	N/A

NOTE:

(1) P is an abbreviation for Pass, F is an abbreviation for Fail, N/A is an abbreviation for Not Applicable.

(2) Decision rules for the conclusion of this test report: decision by actual test data without considering measurement uncertainty.

1.1. Test Facility

Shenzhen CCTI Technology Co., Ltd.

A1-1, Building B1&B2, No.45 Gangtou Road, Bogang District, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

1.2. Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Item	Uncertainty
Uncertainty for Radiation Emission Test in 3m Chamber (30MHz to 1GHz)	2.74dB (Polarize: V)
	2.76dB (Polarize: H)
Uncertainty for Radiation Emission Test in 3m Chamber (1GHz to 18GHz)	4.29dB (Polarize: V)
	4.82dB (Polarize: H)
Uncertainty for Radio Frequency	48.24KHz
Uncertainty for Conducted RF Power	0.41dB
Uncertainty for Power Spectral Density	0.39 dB
Occupied-Bandwidth	968Hz
Conducted-Spurious Emission	1.26dB
(95% Confidence Levels, k=2)	

2. GENERAL INFORMATION

2.1. General Description of EUT

EUT	:	Smart Glasses
Trademark	:	BOMANLON
Model Number	:	Bomanlon BV-01
Serial Model	:	Bomanlon BV-02, Bomanlon BV-03, Bomanlon BV-04, Bomanlon BV-05, Bomanlon BV-06, Bomanlon BV-07, Bomanlon BV-08, Bomanlon BV-09, Bomanlon BV-10, Bomanlon BL-01, Bomanlon BL-02, Bomanlon BL-03, Bomanlon BL-04, Bomanlon BL-05, Bomanlon BL-06, Bomanlon BL-07, Bomanlon BL-08, Bomanlon BL-09, Bomanlon BL-10, Bomanlon BL-11, Bomanlon BL-12, Bomanlon BL-13, Bomanlon BL-14, Bomanlon BL-15, Bomanlon BL-16, Bomanlon BS-01, Bomanlon BS-02, Bomanlon BS-03, Bomanlon BS-04, Bomanlon BS-05, Bomanlon BS-06, Bomanlon BS-07, Bomanlon BS-08, Bomanlon BS-09, Bomanlon BS-10
Model Difference	:	The product is different for model number and outlook.
Power Supply	:	Input: 5V⎓1A
Radio Technology	:	EDR
Operation frequency	:	2402-2480MHz
Channel No.	:	79 Channels
Channel Separation	:	1MHz
Modulation	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Gain (Peak)	:	0dBi
Antenna Type	:	Internal Antenna
Hardware Version	:	V1.0
Software Version	:	V1.0
Intend use environment	:	Residential, commercial and light industrial environment

Remark:

(1) Bomanlon BV-01 was selected as the test model and the datas have been recorded in this report.

(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.2. Test Conditions and Channel

Channel List					
Channel	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	243.7	43	2445	70	2472
17	2419	44	2446	71	2473
3.7	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

	Normal Test Conditions	**Extreme Test Conditions**
Temperature range	15°C - 35°C	-10°C ~ 40°C Note: (1)
Relative Humidity	20% - 75%	N/A
Pressure range	86-106kPa	86-106kPa
Supply Voltage	DC 5V	DC 4.5V – DC 5.5V Note: (2)

Mode	**Channel**	**Frequency(MHz)**
GFSK π/4 DQPSK 8DPSK	Low : CH00	2402
	Middle: CH39	2440
	High: CH78	2480

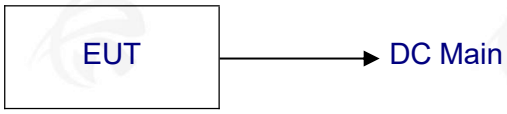
Note:

(1) The HT 40°C and LT -10°C was declared by manufacturer, The EUT couldn't be operate normally with higher or lower temperature.

(2) The High Voltage DC 4.5V and Low Voltage DC 5.5V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.

(3) The measurements are performed at the highest, middle, lowest available channels.

2.3. Description of Test Setup



2.4. Description Test Peripheral and EUT Peripheral

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Trade Mark	Model/Type No.	Series No.	Note

Item	Shielded Type	Ferrite Core	Length	Note

Note:

(1) The support equipment was authorized by Declaration of Confirmation.

(2) For detachable type I/O cable should be specified the length in cm in『Length』column.

(3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

2.5. Description of Test Equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last Cal.	Next Cal.
1	966 Chamber	Yiheng	9*6*6	ZJE-001	2025.07.12	2028.07.11
2	Spectrum Analyzer	Agilent	N9020A	ZJE-024	2025.07.12	2026.07.11
3	EMI Test Receiver	R&S	ESCI7	ZJE-003	2025.07.12	2026.07.11
4	Broadband antenna	Schwarzbeck	VULB 9163	ZJE-004	2025.07.12	2026.07.11
5	Horn antenna	Schwarzbeck	BBHA 9120D	ZJE-005	2025.07.12	2026.07.11
6	Loop antenna	Schwarzbeck	FMZB 1519 B	ZJE-015	2025.07.12	2026.07.11

7	Synthesizer	R&S	CMW500	ZJE-036	2025.07.12	2026.07.11
8	Vector Signal Generator	Agilent	N5182A	ZJE-037	2025.07.12	2026.07.11
9	Analog signal generator	Agilent	N5181A	ZJE-038	2025.07.12	2026.07.11
10	Power Supply	Agilent	E3632A	ZJE-039	2025.07.12	2026.07.11
11	Power meter	KEYSIGHT	E4419B	ZJE-028	2025.07.12	2026.07.11
12	RF Automatic Test System	TST	TSTRF562	ZJE-042	/	/
13	RSE Test Software	Frad	EZ-RE	ZJE-008	/	/

2.6. Information as Required

a) The type of modulation used by the equipment:

☒ FHSS
☐ non-FHSS

b) In case of FHSS :

☐ In case of non-Adaptive Frequency Hopping equipment:
The number of Hopping Frequencies:
☐ In case of Adaptive Frequency Hopping Equipment:
The maximum number of Hopping Frequencies:
The minimum number of Hopping Frequencies:
The Dwell Time: ms maximum
The Minimum Channel Occupation Time: ms

c) Adaptive / non-adaptive Equipment:

☐ non-adaptive Equipment
☒ adaptive Equipment without the possibility to switch to a non-adaptive mode
☐ adaptive Equipment which can also operate in a non-adaptive mode

d) In case of adaptive Equipment:

The maximum Channel Occupancy Time implemented by the equipment: ms
☐ The equipment has implemented an LBT based DAA mechanism
☒ In case of equipment using modulation different from FHSS:
☐ The equipment is Frame Based equipment
☐ The equipment is Load Based equipment
☐ The equipment can switch dynamically between Frame Based and Load Based equipment
The CCA time implemented by the equipment: ..... µs
The value q as referred to in clause 4.3.2.5.2.2.2 .....
☒ The equipment has implemented an non-LBT based DAA mechanism
☐ The equipment can operate in more than one adaptive mode

e) In case of non-adaptive Equipment:

The maximum RF Output Power (e.i.r.p.): 7.72dBm
The maximum (corresponding) Duty Cycle: …….
Equipment with dynamic behaviour, that behaviour is described here. (e.g. the different combinations of duty cycle and corresponding power levels to be declared):

f) The worst case operational mode for each of the following tests:

☐ RF Output Power: 7.72dBm
☐ Power Spectral Density:
☐ Duty cycle, Tx-Sequence, Tx-gap:
☒ Dwell time, Minimum Frequency Occupation & Hopping Sequence (only for FHSS equipment): 329.589ms
☒ Hopping Frequency Separation (only for FHSS equipment): 1.127MHz
☐ Medium Utilization:

☐ Adaptivity & Receiver Blocking:
☒ Occupied Channel Bandwidth: 1.146MHz
☒ Transmitter unwanted emissions in the OOB domain: -61.56dBm/MHz
☐ Transmitter unwanted emissions in the spurious domain:
☐ Receiver spurious emissions :

g) The different transmit operating modes (tick all that apply):

☒ Operating mode 1: Single Antenna Equipment
  ☒ Equipment with only one antenna
  ☐ Equipment with two diversity antennas but only one antenna active at any moment in time
  ☐ Smart Antenna Systems with two or more antennas, but operating in a (legacy) mode where only One antenna is used (es.g. IEEE 802.11™ [i.3] legacy mode in smart antenna systems)
☐ Operating mode 2: Smart Antenna Systems - Multiple Antennas without beam forming
  ☐ Single spatial stream / Standard throughput / (e.g. IEEE 802.11™ [i.3] legacy mode)
  ☐ High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 1
  ☐ High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 2
NOTE 1: Add more lines if more channel bandwidths are supported.
☐ Operating mode 3: Smart Antenna Systems - Multiple Antennas with beam forming
  ☐ Single spatial stream / Standard throughput (e.g. IEEE 802.11™ [i.3] legacy mode)
  ☐ High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 1
  ☐ High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 2
NOTE 2: Add more lines if more channel bandwidths are supported.

h) In case of Smart Antenna Systems:

The number of Receive chains: .....
The number of Transmit chains: .....
  ☐ symmetrical power distribution
  ☐ asymmetrical power distribution
In case of beam forming, the maximum (additional) beam forming gain: .....
NOTE: The additional beam forming gain does not include the basic gain of a single antenna.

i) Operating Frequency Range(s) of the equipment:

Operating Frequency Range 1:2402MHz to2480MHz
Operating Frequency Range 2: ..... MHz to ..... MHz
NOTE: Add more lines if more Frequency Ranges are supported.

j) Nominal Channel Bandwidth(s):

☒ Occupied Channel Bandwidth 1: 1.146MHz
☐ Occupied Channel Bandwidth 2:
NOTE: Add more lines if more channel bandwidths are supported.

k) Type of Equipment (stand-alone, combined, plug-in radio device, etc.):

☒ Stand-alone
☐ Combined Equipment (Equipment where the radio part is fully integrated within another type of equipment)

☐ Plug-in radio device (Equipment intended for a variety of host systems)
☐ Other

l) The normal and the extreme operating conditions that apply to the equipment:

Operating temperature range: -10° C to 40° C
Operating voltage range: 4.5V to 5.5V ☐ AC ☒ DC
Details provided are for the: ☐ stand-alone equipment
☒ combined (or host) equipment
☐ test jig

m) The intended combination(s) of the radio equipment power settings and one or more antenna assemblies and their corresponding e.i.r.p. levels:

Antenna Type:
☒ Internal Antenna
Antenna Gain: 0dBi
If applicable, additional beamforming gain (excluding basic antenna gain): ..... dBm
☐ Temporary RF connector provided
☐ No temporary RF connector provided
☐ Dedicated Antennas (equipment with antenna connector)
☐ Single power level with corresponding antenna(s)
☐ Multiple power settings and corresponding antenna(s)
Number of different Power Levels: .....
Power Level 1: ..... dBm
Power Level 2: ..... dBm
Power Level 3: ..... dBm
NOTE 1: Add more lines in case the equipment has more power levels.
NOTE 2: These power levels are conducted power levels (at antenna connector).

n) The nominal voltages of the stand-alone radio equipment or the nominal voltages of the combined (host) equipment or test jig in case of plug-in devices:

Details provided are for the: ☐ stand-alone equipment
☒ combined (or host) equipment
☐ test jig
Supply Voltage: ☐ AC mains State AC voltage :
☒ DC State DC voltage : 5V
In case of DC, indicate the type of power source
☐ Internal Power Supply
☒ External Power Supply or AC/DC adapter
☐ Battery: V
☐ Other: .....

o) Describe the test modes available which can facilitate testing:

p) The equipment type (e.g. Bluetooth®, IEEE 802.11™ [i.3], IEEE 802.15.4™ [i.4], proprietary, etc.):

q) If applicable, the statistical analysis referred to in clause 5.4.1 q)

r) If applicable, the statistical analysis referred to in clause 5.4.1 r)

s) Geo-location Capability supported by the equipment:

☐ Yes
The geographical location determined by the equipment as defined in clause 4.3.1.13.2 or clause 4.3.2.12.2 is not accessible to the user
☒ No

t) Describe the minimum performance criteria that apply to the equipment (see clause 4.3.1.12.3 or clause 4.3.2.11.3):

The minimum performance criterion shall be a PER less than or equal to 10 %.
The intended use of the equipment should be in the normal operation without lost the communication link or no unintentionally operation occurs.

3. RF Output Power

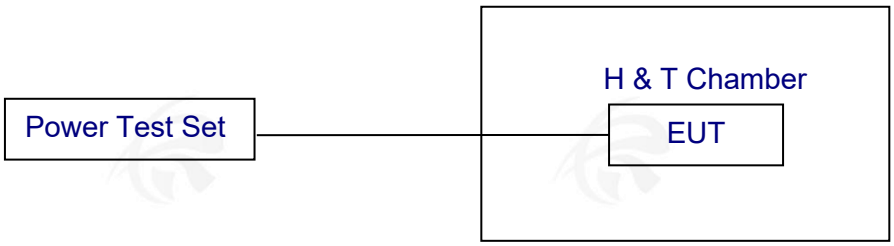
3.1. Applied Procedures / Limit

For adaptive equipment using wide band modulations other than FHSS, the maximum RF output power shall be 20 dBm.
The maximum RF output power for non-adaptive equipment shall be declared by the supplier and shall not exceed 20 dBm. See clause 5.4.1 m). For non-adaptive equipment using wide AZband modulations other than FHSS, themaximum RF output power shall be equal to or less than the value declared by the supplier.
This limit shall apply for any combination of power level and intended antenna assembly.

3.2. Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2.

3.3. Test Setup



3.4. EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

3.5. Test Result

See attached EDR

4. Duty Cycle,TX-sequence,TX-gap

4.1. Applied Procedures / Limit

Non-adaptive FHSS equipment shall comply with the following:

• The Duty Cycle shall be equal to or less than the maximum value declared by the manufacturer.

• The maximum Tx-sequence time shall be 5 ms.

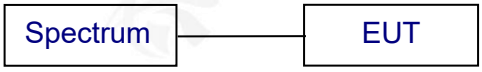
• The minimum Tx-gap time shall be 5 ms.

NOTE: For Non-adaptive FHSS equipment, the manufacturer may have declared a reduced RF Output Power (see clause 5.4.1 m)) and associated Duty Cycle (see clause 5.4.1 e)) that will ensure that the equipment meets the requirements for the Medium Utilization (MU) factors further described in clause 4.3.1.6. This is verified by the conformance test referred to in clause 4.3.1.6.4.

4.2. Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2.

4.3. Test Setup



4.4. EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

4.5. Test Result

Not applicable

These requirements do not apply for equipment with a declared RF Output power level of less than 10 dBm e.i.r.p. or for equipment when operating in a mode where the RF Output power is less than 10 dBm e.i.r.p.

5. Accumulated Transmit Time, Frequency Occupation and Hopping Sequence

5.1. Applied Procedures / Limit

For Non-adaptive frequency Hopping systems

For non-adaptive FHSS equipment, the Hopping Frequency Separation shall be equal to or greater than the Occupied Channel Bandwidth (see clause 4.3.1.8), with a minimum separation of 100 kHz.

For FHSS equipment with a maximum declared RF Output power level of less than 10 dBm e.i.r.p. or for non-adaptive FHSS equipment operating in a mode where the RF Output power is less than 10 dBm e.i.r.p., the Hopping Frequency Separation shall be equal to or greater than 100 kHz.

For Adaptive frequency Hopping systems

For adaptive FHSS equipment, the minimum Hopping Frequency Separation shall be 100 kHz.

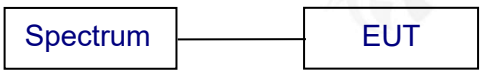
Adaptive FHSS equipment that switched to a non-adaptive mode for one or more Hopping frequencies because interference was detected on each of these Hopping frequencies with a level above the threshold level defined in clause 4.3.1.7.2.2, point 5 or clause 4.3.1.7.3.2, point 5, does not have to comply with the Hopping Frequency Separation provided in clause 4.3.1.5.3.1 for non-adaptive FHSS equipment. If the Hopping Frequency Separation is below the Occupied Channel Bandwidth but greater than 100 kHz, the equipment is allowed to continue to operate with this Hopping Frequency Separation as long as the interference remains present on these Hopping frequencies. As this relaxed Hopping Frequency Separation only applies to adaptive FHSS equipment, the FHSS equipment shall continue to operate in an adaptive mode on all other Hopping frequencies.

Adaptive FHSS equipment which decided to operate in a non-adaptive mode on one or more Hopping frequencies without the presence of interference, shall comply with the limit for Hopping Frequency Separation for non-adaptive FHSS equipment defined in clause 4.3.1.5.3.1 (first paragraph) for these Hopping frequencies.

5.2. Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.4.

5.3. Test Setup



5.4. EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

5.5. Test Result

See attached EDR

6. Hopping Frequency Separation

6.1. Applied Procedures / Limit

For non-adaptive FHSS equipment, the Hopping Frequency Separation shall be equal to or greater than the Occupied Channel Bandwidth (see clause 4.3.1.8), with a minimum separation of 100 kHz.

For FHSS equipment with a maximum declared RF Output power level of less than 10 dBm e.i.r.p. or for non-adaptive FHSS equipment operating in a mode where the RF Output power is less than 10 dBm e.i.r.p., the Hopping Frequency Separation shall be equal to or greater than 100 kHz.

6.2. Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.5.

6.3. Test Setup



6.4. EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

6.5. Test Result

See attached EDR

7. Medium Utilisation (MU) factor

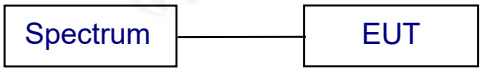
7.1. Applied Procedures / Limit

The maximum Medium Utilization factor for non-adaptive FHSS equipment shall be 10 %.

7.2. Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2.

7.3. Test Setup



7.4. EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

7.5. Test Result

Not Applicable

This requirement does not apply to adaptive equipment unless operating in a non-adaptive mode.
In addition, this requirement does not apply for equipment with a maximum declared RF Output power level of less than 10 dBm e.i.r.p. or for equipment when operating in a mode where the RF Output power is less than 10 dBm e.i.r.p.

8. Adaptivity (Adaptive Frequency Hopping)

8.1. Applied Procedures / Limit

Adaptive non-FHSS equipment using DAA shall comply with the following minimum set of requirements:

1) During normal operation, the equipment shall evaluate the presence of a signal on its current operating channel(s). If it is determined that a signal is present with a level above the detection threshold defined in step 5 that channel shall be marked as 'unavailable'.

2) The channel(s) shall remain unavailable for a minimum time equal to 1 s after which the channel may be considered again as an 'available' channel.

3) The total time during which an equipment has transmissions on a given channel without re-evaluating the availability of that channel, is defined as the Channel Occupancy Time. The Channel Occupancy Time shall be less than 40 ms. Each such transmission sequence shall be followed by an Idle Period (no transmissions) of minimum 5 % of the Channel Occupancy Time with a minimum of 100 μs. After this, the procedure as in step 1 needs to be repeated.

4) The detection threshold shall be proportional to the transmit power of the transmitter: for a 20 dBm e.i.r.p. transmitter the detection threshold level (TL) shall be equal to or less than -70 dBm/MHz at the input to the receiver assuming a 0 dBi (receive) antenna assembly. This threshold level (TL) may be corrected for the (receive) antenna assembly gain (G); however, beamforming gain (Y) shall not be taken into account. For power levels less than 20 dBm e.i.r.p., the detection threshold level may be relaxed to:

$$TL = -70 \text{ dBm/MHz} + 10 \times \log_{10} (100 \text{ mW} / \text{Pout}) \text{ (Pout in mW e.i.r.p.)}$$

5) The equipment shall comply with the requirements defined in step 1 to step 4 of the present clause in the presence of an unwanted CW signal as defined in table 9.

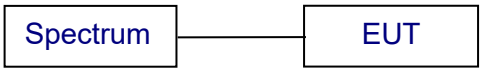
Table 9: Unwanted Signal parameters

Wanted signal mean power from companion device (dBm)	Unwanted signal frequency (MHz)	Unwanted CW signal power (dBm)
-30 (see note 2)	2 395 or 2 488,5 (see note 1)	-35 (see note 2)
NOTE 1: The highest frequency shall be used for testing operating channels within the range 2 400 MHz to 2 442 MHz, while the lowest frequency shall be used for testing operating channels within the range 2 442 MHz to 2 483,5 MHz. See clause 5.4.6.1.		
NOTE 2: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density in front of the UUT antenna.		

8.2. Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.6.

8.3. Test Setup



8.4. EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

8.5. Test Result

Not Applicable

This requirement do not apply for equipment with a maximum declared RF Output power level of less than 10 dBme.i.r.p. or for equipment when operating in a mode where the RF Output power is less than 10 dBme.i.r.p.

9. Occupied Channel Bandwidth

9.1. Applied Procedures / Limit

The Occupied Channel Bandwidth shall be within the band given in table 1.

Table 1: Service frequency bands

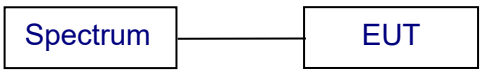
	Service frequency bands
Transmit	2 400 MHz to 2 483,5 MHz
Receive	2 400 MHz to 2 483,5 MHz

In addition, for non-adaptive non-FHSS equipment with e.i.r.p. greater than 10 dBm, the Occupied Channel Bandwidth shall be equal to or less than 20 MHz.

9.2. Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.7.

9.3. Test Setup



9.4. EUT Operation During Test

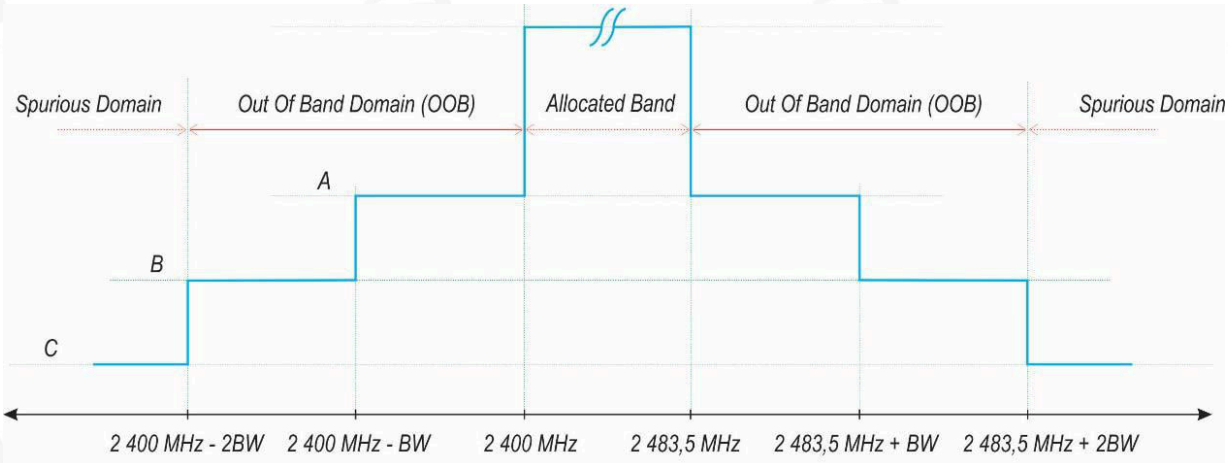
The EUT was programmed to be in continuously transmitting mode.

9.5. Test Result

See attached EDR

10. Transmitter Unwanted Emissions In The Out-of-band Domain

10.1. Applied Procedures / Limit



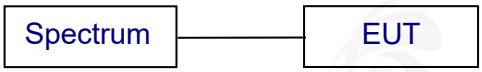
A: -10 dBm/MHz e.i.r.p.
B: -20 dBm/MHz e.i.r.p.
C: Spurious Domain limits

BW = Occupied Channel Bandwidth in MHz or 1 MHz whichever is greater

10.2. Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.8.

10.3. Test Setup



10.4. EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

10.5. Test Result

See attached EDR

11. Transmitter Unwanted Emissions In The Spurious Domain

11.1 Conducted Measurements

11.1.1 Applied Procedures / Limit

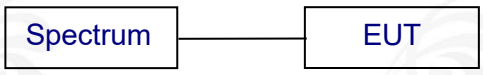
Transmitter limits for spurious emissions

Frequency Range	Maximum power e.r.p.(.≤1 GHz) e.i.r.p.(＞1 GHz)	Limit when Standby
30 MHz to 47 MHz	-36 dBm	100 KHz
47 MHz to 74 MHz	-54 dBm	100 KHz
74MHz to 87.5 MHz	-36 dBm	100 KHz
87.5 MHz to 118 MHz	-54 dBm	100 KHz
118 MHz to 174 MHz	-36 dBm	100 KHz
174 MHz to 230 MHz	-54 dBm	100 KHz
230 MHz to 470 MHz	-36 dBm	100 KHz
470 MHz to 694 MHz	-54 dBm	100 KHz
694 MHz to 1GHz	-36 dBm	100 KHz
1 GHz to 12.75GHz	-30 dBm	1 MHz

11.1.2 Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.9.

11.1.3 Test Setup



11.1.4 EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

11.1.5 Test Result

N/A

11.2 Radiated Measurements

11.2.1Applied Procedures / Limit

Transmitter limits for spurious emissions

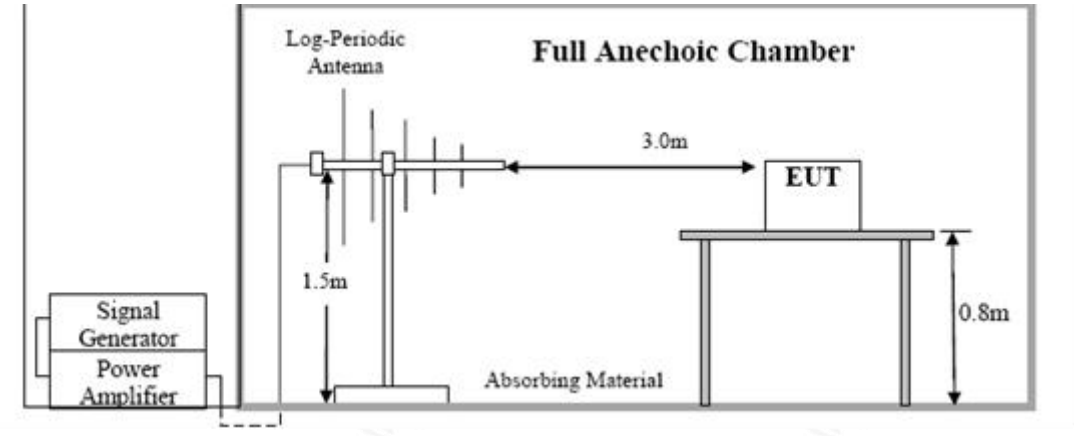
Frequency Range	Maximum power e.r.p.(.≤1 GHz) e.i.r.p.(＞1 GHz)	Limit when Standby
30 MHz to 47 MHz	-36 dBm	100 KHz
47 MHz to 74 MHz	-54 dBm	100 KHz
74MHz to 87.5 MHz	-36 dBm	100 KHz
87.5 MHz to 118 MHz	-54 dBm	100 KHz
118 MHz to 174 MHz	-36 dBm	100 KHz
174 MHz to 230 MHz	-54 dBm	100 KHz
230 MHz to 470 MHz	-36 dBm	100 KHz
470 MHz to 694 MHz	-54 dBm	100 KHz
694 MHz to 1GHz	-36 dBm	100 KHz
1 GHz to 12.75GHz	-30 dBm	1 MHz

11.2.2 Test Procedure

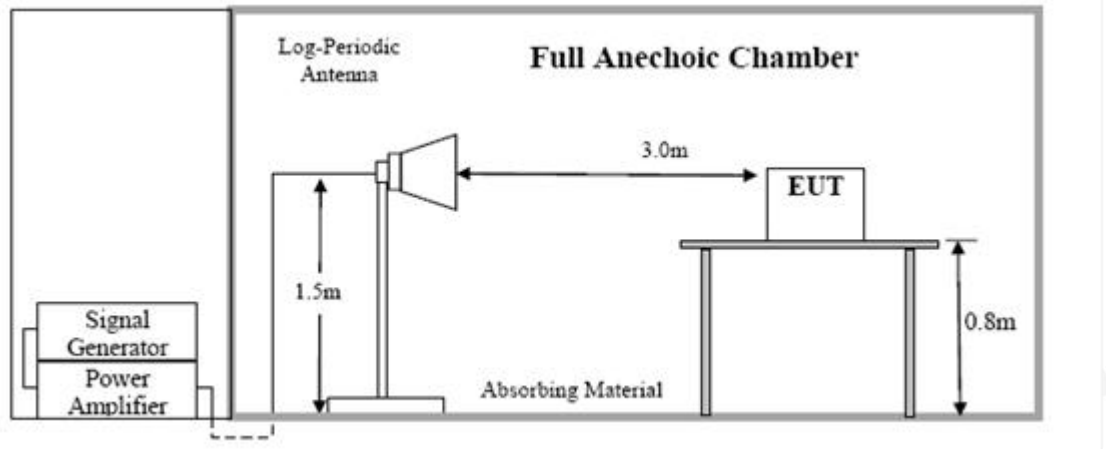
Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.9.

11.2.3 Test Setup

(A) Radiated Emission Test Set-Up Frequency(30~1000MHz)



(B) Radiated Emission Test Set-Up Frequency(1000~12750MHz)



11.2.4 EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

11.2.5 Test Result (30~1000MHz)

For the initial investigation on the highest, middle, lowest frequency in 30~1000MHz and 1000~12750MHz, no significant differences in spurious emissions were observed between these 3 modes. The worst test data was shown.
Remark: We test all modulation type, and recorded the worst case at GFSK mode for test.

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2402MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
134.84	H	-66.53	-36	-30.53	PASS
210.71	H	-61.11	-54	-7.11	PASS
310.11	H	-64.25	-36	-28.25	PASS
547.63	H	-62.35	-54	-8.35	PASS
762.37	H	-67.38	-36	-31.38	PASS

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
134.29	V	-66.49	-36	-30.49	PASS
210.56	V	-60.96	-54	-6.96	PASS
310.12	V	-64.24	-36	-28.24	PASS
547.84	V	-62.08	-54	-8.08	PASS
762.35	V	-67.38	-36	-31.38	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. Other point of the measurements are below 20dB from the limit.
3. H represents horizontal, and V represents vertical.
4.We tested all modes and show the worst mode, DH5.

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2441MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
134.38	H	-66.45	-36	-30.45	PASS
210.62	H	-60.98	-54	-6.98	PASS
309.84	H	-64.44	-36	-28.44	PASS
547.48	H	-62.29	-54	-8.29	PASS
762.51	H	-67.29	-36	-31.29	PASS

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
134.49	V	-66.56	-36	-30.56	PASS
210.63	V	-61.16	-54	-7.16	PASS
310.08	V	-64.32	-36	-28.32	PASS
547.62	V	-62.17	-54	-8.17	PASS
762.17	V	-67.50	-36	-31.50	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. Other point of the measurements are below 20dB from the limit.
3. H represents horizontal, and V represents vertical.
4.We tested all modes and show the worst mode, DH5.

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2480MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
134.45	H	-66.51	-36	-30.51	PASS
210.38	H	-61.15	-54	-7.15	PASS
309.97	H	-64.36	-36	-28.36	PASS
547.68	H	-62.15	-54	-8.15	PASS
761.99	H	-67.51	-36	-31.51	PASS

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
134.51	V	-66.64	-36	-30.64	PASS
210.34	V	-61.03	-54	-7.03	PASS
309.68	V	-64.18	-36	-28.18	PASS
547.34	V	-62.08	-54	-8.08	PASS
762.37	V	-67.50	-36	-31.50	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. Other point of the measurements are below 20dB from the limit.
3. H represents horizontal, and V represents vertical.
4.We tested all modes and show the worst mode, DH5.

11.2.5 Test Result (1000~12750MHz)

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2402MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
1806.04	H	-55.19	-30	-25.19	PASS
2991.12	H	-53.81	-30	-23.81	PASS
3876.84	H	-56.86	-30	-26.86	PASS
4712.92	H	-49.99	-30	-19.99	PASS
5362.77	H	-53.55	-30	-23.55	PASS
5866.04	H	-57.26	-30	-27.26	PASS

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
1860.42	V	-55.18	-30	-25.18	PASS
3139.83	V	-53.66	-30	-23.66	PASS
3945.24	V	-56.94	-30	-26.94	PASS
4390.36	V	-49.88	-30	-19.88	PASS
4908.53	V	-53.35	-30	-23.35	PASS
6145.63	V	-57.21	-30	-27.21	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. Other point of the measurements are below 20dB from the limit.
3. H represents horizontal, and V represents vertical.
4.We tested all modes and show the worst mode, DH5.

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2441MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
1806.23	H	-55.00	-30	-25.00	PASS
2991.15	H	-53.70	-30	-23.70	PASS
3876.77	H	-56.95	-30	-26.95	PASS
4712.74	H	-50.03	-30	-20.03	PASS
5362.80	H	-53.48	-30	-23.48	PASS
5865.89	H	-57.15	-30	-27.15	PASS

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
1860.47	V	-55.17	-30	-25.17	PASS
3140.00	V	-53.76	-30	-23.76	PASS
3945.64	V	-56.81	-30	-26.81	PASS
4390.13	V	-50.11	-30	-20.11	PASS
4908.64	V	-53.34	-30	-23.34	PASS
6145.44	V	-57.25	-30	-27.25	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. Other point of the measurements are below 20dB from the limit.
3. H represents horizontal, and V represents vertical.
4.We tested all modes and show the worst mode, DH5.

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2480MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
1806.02	H	-55.09	-30	-25.09	PASS
2991.18	H	-53.84	-30	-23.84	PASS
3877.00	H	-56.77	-30	-26.77	PASS
4712.97	H	-49.87	-30	-19.87	PASS
5362.68	H	-53.49	-30	-23.49	PASS
5865.88	H	-57.09	-30	-27.09	PASS

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
1860.62	V	-54.99	-30	-24.99	PASS
3139.89	V	-53.78	-30	-23.78	PASS
3945.76	V	-56.84	-30	-26.84	PASS
4390.07	V	-49.85	-30	-19.85	PASS
4908.57	V	-53.46	-30	-23.46	PASS
6145.16	V	-54.99	-30	-24.99	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. Other point of the measurements are below 20dB from the limit.
3. H represents horizontal, and V represents vertical.
4.We tested all modes and show the worst mode, DH5.

12. Receiver Spurious Emissions

12.1Conducted Measurements

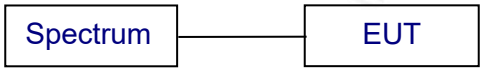
12.1.1 Applied Procedures / Limit

Frequency	Maximum power, e.r.p.	Measurement bandwidth
30 MHz to 1 GHz	-57 dBm	100 KHz
1 GHz to 12.75 GHz	-47 dBm	1 MHz

12.1.2 Test Procedure

Refer to ETSI EN 300 328 Sub-clause 4.3.1.11.3

12.1.3 Test Setup



12.1.4 EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

12.1.5 Test Result

N/A

12.2 Radiated Measurements

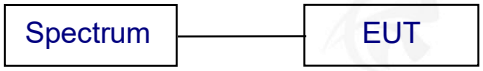
12.2.1 Applied Procedures / Limit

Frequency	Maximum power, e.r.p.	Measurement bandwidth
30 MHz to 1 GHz	-57 dBm	100 KHz
1 GHz to 12.75 GHz	-47 dBm	1 MHz

12.2.2 Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.10.

12.2.3 Test Setup



12.2.4 EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

12.2.5 Test Result (30~1000MHz)

For the initial investigation on the highest, middle, lowest frequency in 30~1000MHz and 1000~12750MHz, no significant differences in spurious emissions were observed between these 3 modes. The worst test data was shown.
Remark: We test all modulation type, and recorded the worst case at GFSK mode for test.

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2402MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
163.07	H	-85.05	-57.00	-28.05	PASS
265.92	H	-85.05	-57.00	-28.05	PASS
385.99	H	-86.55	-57.00	-29.55	PASS
485.23	H	-80.14	-57.00	-23.14	PASS
633.44	H	-74.45	-57.00	-17.45	PASS
787.39	H	-77.64	-57.00	-20.64	PASS

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
103.23	V	-85.16	-57.00	-28.16	PASS
254.27	V	-85.14	-57.00	-28.14	PASS
327.14	V	-86.36	-57.00	-29.36	PASS
575.35	V	-80.11	-57.00	-23.11	PASS
737.87	V	-74.70	-57.00	-17.70	PASS
994.98	V	-77.59	-57.00	-20.59	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. Other point of the measurements are below 20dB from the limit.
3. H represents horizontal, and V represents vertical.
4.We tested all modes and show the worst mode, DH5.

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2440MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
163.09	H	-84.93	-57.00	-27.93	PASS
266.09	H	-85.09	-57.00	-28.09	PASS
385.73	H	-86.33	-57.00	-29.33	PASS
484.98	H	-80.04	-57.00	-23.04	PASS
633.44	H	-74.60	-57.00	-17.60	PASS
787.16	H	-77.60	-57.00	-20.60	PASS

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
102.83	V	-85.08	-57.00	-28.08	PASS
253.96	V	-85.02	-57.00	-28.02	PASS
326.87	V	-86.54	-57.00	-29.54	PASS
575.28	V	-80.16	-57.00	-23.16	PASS
737.34	V	-74.61	-57.00	-17.61	PASS
994.97	V	-77.60	-57.00	-20.60	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. Other point of the measurements are below 20dB from the limit.
3. H represents horizontal, and V represents vertical.
4.We tested all modes and show the worst mode, DH5.

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2480MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
162.89	H	-84.99	-57.00	-27.99	PASS
266.12	H	-85.12	-57.00	-28.12	PASS
385.73	H	-86.58	-57.00	-29.58	PASS
485.08	H	-80.17	-57.00	-23.17	PASS
633.19	H	-74.59	-57.00	-17.59	PASS
786.93	H	-77.68	-57.00	-20.68	PASS

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
102.73	V	-84.98	-57.00	-27.98	PASS
253.75	V	-85.22	-57.00	-28.22	PASS
326.75	V	-86.44	-57.00	-29.44	PASS
575.07	V	-79.97	-57.00	-22.97	PASS
737.29	V	-74.70	-57.00	-17.70	PASS
994.79	V	-77.50	-57.00	-20.50	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. Other point of the measurements are below 20dB from the limit.
3. H represents horizontal, and V represents vertical.
4.We tested all modes and show the worst mode, DH5.

12.2.5 Test Result (1000~12750MHz)

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2402MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
1584.77	H	-74.91	-47.00	-27.91	PASS
3749.73	H	-78.52	-47.00	-31.52	PASS
2162.18	H	-74.29	-47.00	-27.29	PASS
3669.78	H	-69.74	-47.00	-22.74	PASS
4767.75	H	-68.99	-47.00	-21.99	PASS
6233.58	H	-68.00	-47.00	-21.00	PASS

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
1779.38	V	-74.92	-47.00	-27.92	PASS
1781.23	V	-78.50	-47.00	-31.50	PASS
2747.82	V	-74.31	-47.00	-27.31	PASS
3972.56	V	-69.67	-47.00	-22.67	PASS
5378.91	V	-68.97	-47.00	-21.97	PASS
7243.28	V	-67.82	-47.00	-20.82	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. Other point of the measurements are below 20dB from the limit.
3. H represents horizontal, and V represents vertical.
4.We tested all modes and show the worst mode, DH5.

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2440MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
1584.40	H	-75.02	-47.00	-28.02	PASS
3749.42	H	-78.72	-47.00	-31.72	PASS
2161.84	H	-74.30	-47.00	-27.30	PASS
3669.83	H	-69.77	-47.00	-22.77	PASS
4767.57	H	-69.02	-47.00	-22.02	PASS
6233.38	H	-68.03	-47.00	-21.03	PASS

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
1779.27	V	-74.94	-47.00	-27.94	PASS
1781.14	V	-78.64	-47.00	-31.64	PASS
2747.55	V	-74.40	-47.00	-27.40	PASS
3972.18	V	-69.91	-47.00	-22.91	PASS
5378.88	V	-69.07	-47.00	-22.07	PASS
7243.00	V	-67.94	-47.00	-20.94	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. Other point of the measurements are below 20dB from the limit.
3. H represents horizontal, and V represents vertical.
4.We tested all modes and show the worst mode, DH5.

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2480MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
1584.82	H	-74.98	-47.00	-27.98	PASS
3749.74	H	-78.72	-47.00	-31.72	PASS
2161.49	H	-74.42	-47.00	-27.42	PASS
3669.86	H	-69.83	-47.00	-22.83	PASS
4767.64	H	-69.17	-47.00	-22.17	PASS
6233.16	H	-68.02	-47.00	-21.02	PASS

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
1779.16	V	-75.06	-47.00	-28.06	PASS
1780.81	V	-78.75	-47.00	-31.75	PASS
2747.71	V	-74.30	-47.00	-27.30	PASS
3972.27	V	-69.69	-47.00	-22.69	PASS
5378.52	V	-68.97	-47.00	-21.97	PASS
7243.08	V	-68.00	-47.00	-21.00	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. Other point of the measurements are below 20dB from the limit.
3. H represents horizontal, and V represents vertical.
4.We tested all modes and show the worst mode, DH5.

13. Receiver Blocking

13.1. Applied Procedures / Limit

While maintaining the minimum performance criteria as defined in clause 4.3.1.12.3, the blocking levels at specified frequency offsets shall be equal to or greater than the limits defined for the applicable receiver category provided in table 6, table 7 or table 8.

The minimum performance criterion shall be a PER less than or equal to 10 %. The manufacturer may declare alternative performance criteria as long as that is appropriate for the intended use of the equipment.

Table 6: Receiver Blocking parameters for Receiver Category 1 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 4)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 4)	Type of blocking signal
(-133 dBm + 10 × $\log_{10}$(OCBW)) or -68 dBm whichever is less (see note 2)	2 380 2 504	-34	CW
(-139 dBm + 10 × $\log_{10}$(OCBW)) or -74 dBm whichever is less (see note 3)	2 300 2 330 2 360 2 524 2 584 2 674		

NOTE 1: OCBW is in Hz.
NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 26 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.
NOTE 3: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 20 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.
NOTE 4: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

Table 7: Receiver Blocking parameters receiver Category 2 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 3)	Type of blocking signal
(-139 dBm + 10 × $\log_{10}$(OCBW) + 10 dB) or (-74 dBm + 10 dB) whichever is less (see note 2)	2 380 2 504 2 300 2 584	-34	CW
NOTE 1: OCBW is in Hz. NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 26 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal. NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.			

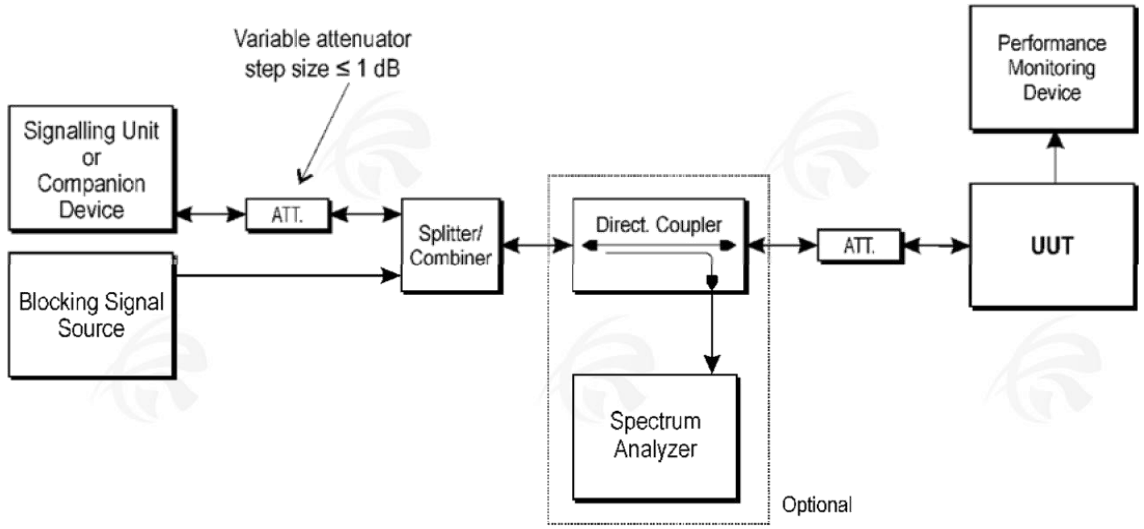
Table 8: Receiver Blocking parameters receiver Category 3 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 3)	Type of blocking signal
(-139 dBm + 10 × $\log_{10}$(OCBW) + 20 dB) or (-74 dBm + 20 dB) whichever is less (see note 2)	2 380 2 504 2 300 2 584	-34	CW
NOTE 1: OCBW is in Hz. NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative the test may be performed using a wanted signal up to P_{min} + 30 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal. NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.			

13.2. Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.11.

13.3. Test Setup



13.4. EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

13.5. Test Result

Record GFSK for this test item

Channel 00@Result

Wanted signal mean power form companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm)	PER (%)	Limit (%)	Result
-66.42	2380	-34	0.23	10	Pass
-66.42	2300	-34	1.15	10	Pass

Channel 78@Result

Wanted signal mean power form companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm)	PER (%)	Limit (%)	Result
-66.44	2504	-34	1.22	10	Pass
-66.44	2584	-34	0.58	10	Pass

Note: EUT is Receiver Category 2 equipment.

Record π/4DQPSK for this test item

Channel 00@Result

Wanted signal mean power form companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm)	PER (%)	Limit (%)	Result
-64.54	2380	-34	0.42	10	Pass
-64.54	2300	-34	0.65	10	Pass

Channel 78@Result

Wanted signal mean power form companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm)	PER (%)	Limit (%)	Result
-64.58	2504	-34	0.52	10	Pass
-64.58	2584	-34	0.03	10	Pass

Note: EUT is Receiver Category 2 equipment.

Record 8DPSK for this test item

Channel 00@Result

Wanted signal mean power form companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm)	PER (%)	Limit (%)	Result

-64.52	2380	-34	1.01	10	Pass
-64.52	2300	-34	1.12	10	Pass

Channel 78@Result

Wanted signal mean power form companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm)	PER (%)	Limit (%)	Result
-64.52	2504	-34	1.52	10	Pass
-64.52	2584	-34	1.11	10	Pass

Note: EUT is Receiver Category 2 equipment.

14. Geo-location Capability

14.1. Definition& Requirements

Geo-location Capability is a feature of the equipment to determine its geographical location with the purpose to configure itself according to the regulatory requirements applicable at the geographical location where it operates.

The Geo-location Capability may be present in the equipment or in an external device (temporary) associated with theequipment operating at the same geographical location during the initial power up of the equipment. The geographicallocation may also be available in equipment already installed and operating at the same geographical location.

14.2. Test Results

This equipment does not support Geo-location.

APPENDIX I -- TEST PHOTOGRAPHS

RSE-L



RSE-H



APPENDIX II -- EUT PHOTOGRAPHS

Please refer to the EUT Photo

APPENDIX III -- STATEMENT

1. The equipment lists are traceable to the national reference standards.

2. The test report can not be partially copied unless prior written approval is issued from our lab.

3. The test report is invalid without the "special seal for inspection and testing".

4. The test report is invalid without the signature of the approver.

5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

※※※※※ **END OF REPORT** ※※※※※

Appendix EDR

Report No.:	CCTI260427107W1-R1
Product Name:	Smart Glasses
Model No.:	Bomanlon BV-01
Test Engineer:	Leo Wang
Supervised by:	Betty Liang

1. RF Output Power, Duty Cycle, Tx-sequence, Tx-gap, Medium Utilization

1.1 Test Result

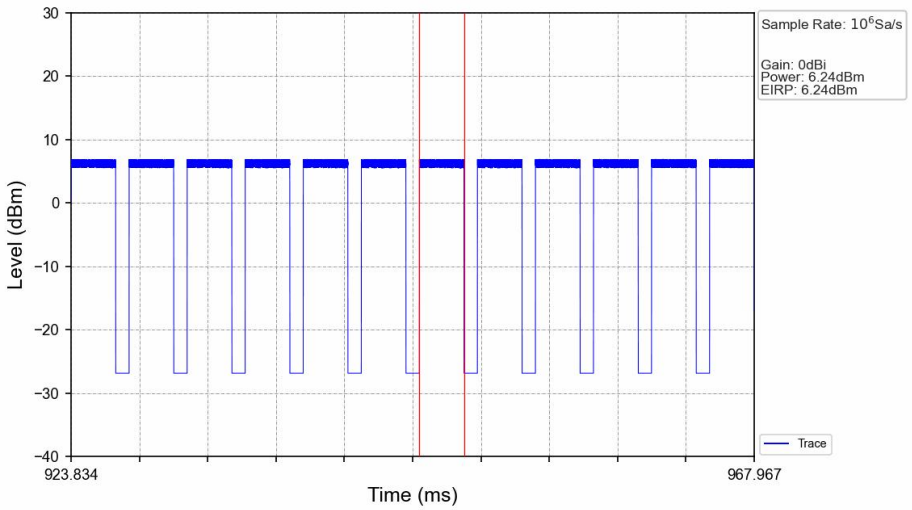
1.1.1 Power

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Gain (dBi)	Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
NTNV	GFSK	SISO	HOPP	DH5	1	0.00	6.24	6.24	<=20	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	0.00	7.72	7.72	<=20	Pass
	8DPSK	SISO	HOPP	3DH5	1	0.00	5.07	5.07	<=20	Pass
HTNV	GFSK	SISO	HOPP	DH5	1	0.00	6.24	6.24	<=20	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	0.00	7.67	7.67	<=20	Pass
	8DPSK	SISO	HOPP	3DH5	1	0.00	5.08	5.08	<=20	Pass
LTNV	GFSK	SISO	HOPP	DH5	1	0.00	6.24	6.24	<=20	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	0.00	5.07	5.07	<=20	Pass
	8DPSK	SISO	HOPP	3DH5	1	0.00	5.07	5.07	<=20	Pass
Note1: E.I.R.P = Measured Power + Antenna Gain										

1.2 Test Graph

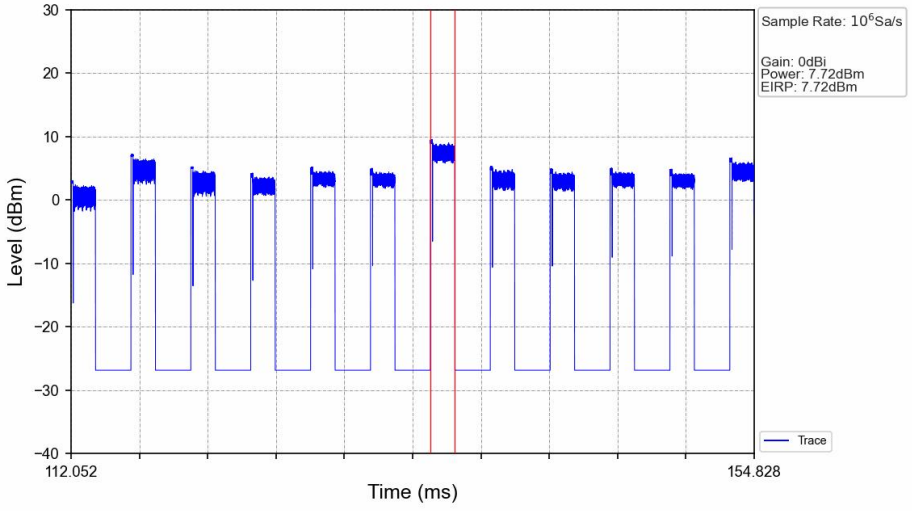
1.2.1 Power

GFSK_DH5_HOPP_Ant1_NTNV



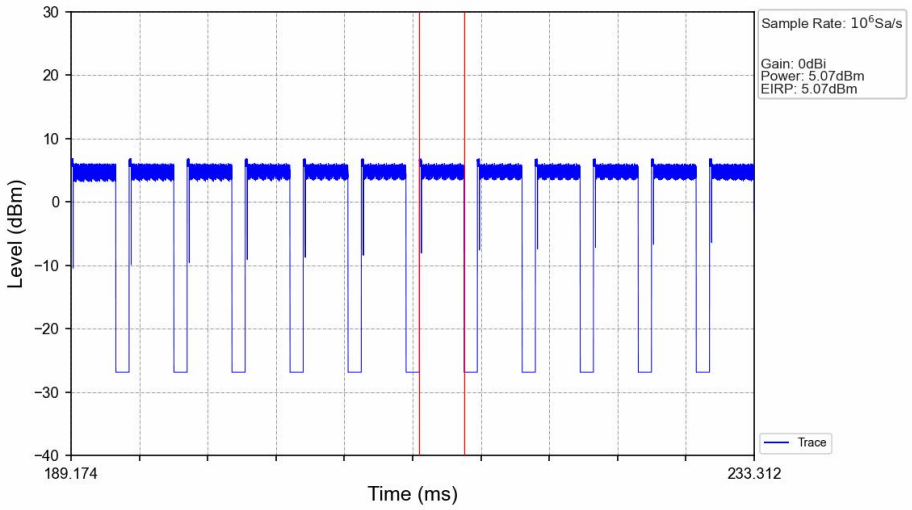
Burst No.	1	2	3	4	5	6	**7**	8	9	10	11	12
Length (ms)	2.883	2.883	2.884	2.884	2.884	2.884	**2.884**	2.884	2.884	2.884	2.884	2.884
Power (dBm)	6.24	6.24	6.24	6.24	6.24	6.24	**6.24**	6.24	6.24	6.24	6.24	6.24
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



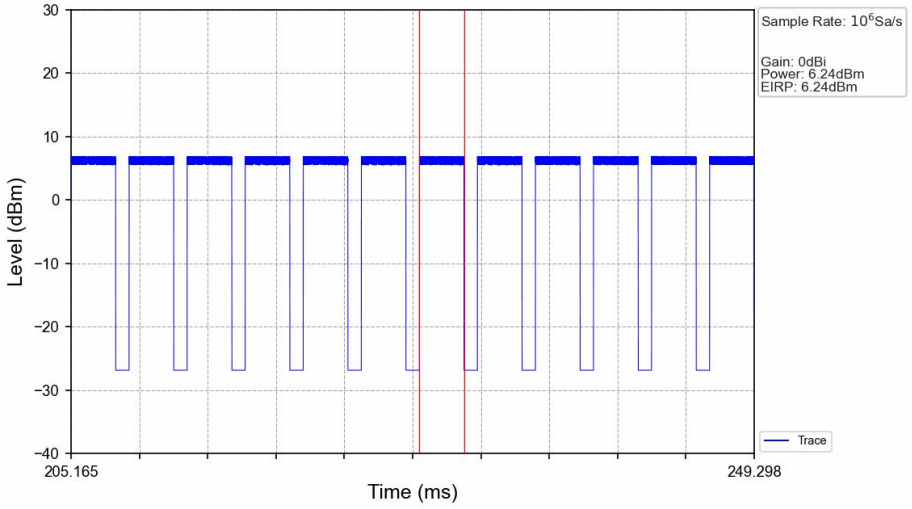
Burst No.	1	2	3	4	5	6	**7**	8	9	10	11	12
Length (ms)	1.527	1.527	1.527	1.527	1.527	1.527	**1.527**	1.526	1.526	1.526	1.526	1.526
Power (dBm)	0.87	5.07	3.14	2.48	3.55	3.41	**7.72**	3.46	3.19	3.42	3.25	4.77
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

8DPSK_3DH5_HOPP_Ant1_NTNV



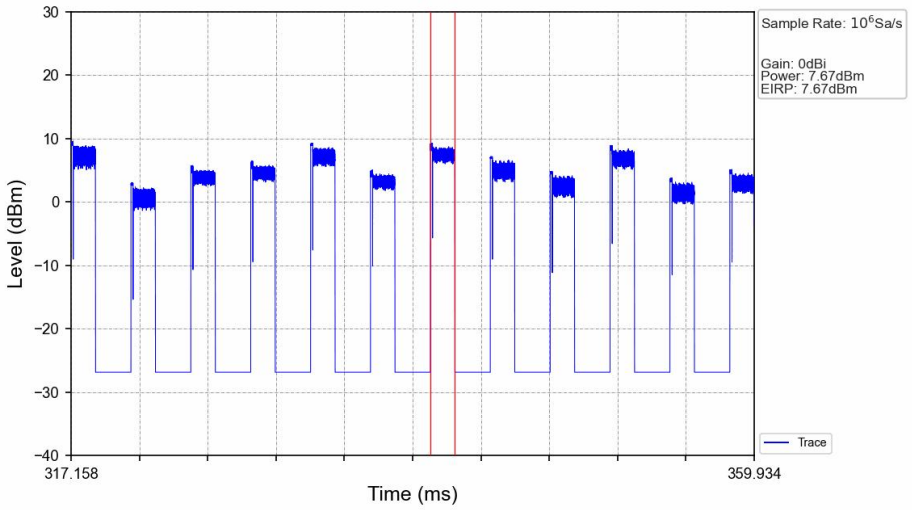
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	2.889	2.889	2.889	2.889	2.889	2.889	**2.889**	2.889	2.888	2.888	2.888	2.888
Power (dBm)	4.97	5.00	5.02	5.05	5.07	5.07	**5.07**	5.07	5.07	5.05	5.02	4.99
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

GFSK_DH5_HOPP_Ant1_HTNV



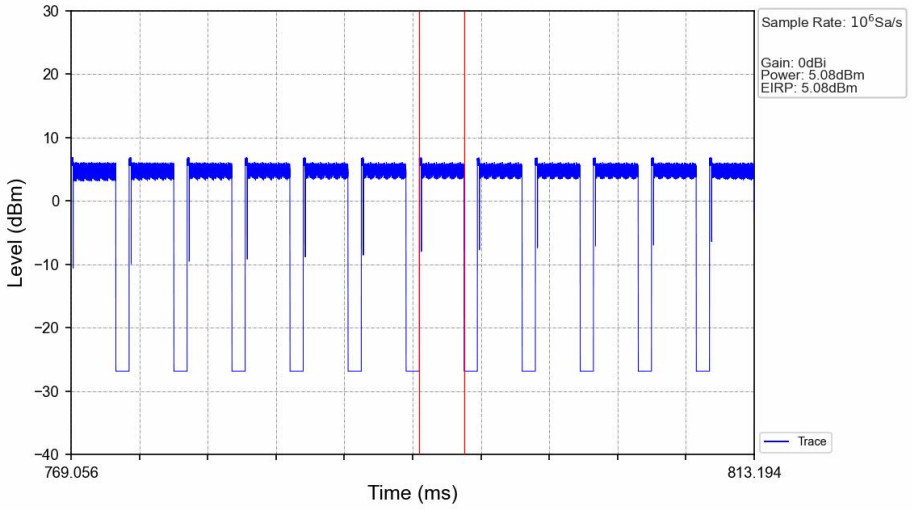
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	2.883	2.884	2.884	2.884	2.884	2.884	**2.884**	2.884	2.884	2.884	2.884	2.884
Power (dBm)	6.24	6.24	6.24	6.24	6.24	6.24	**6.24**	6.24	6.24	6.24	6.24	6.24
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

Pi/4DQPSK_2DH5_HOPP_Ant1_HTNV



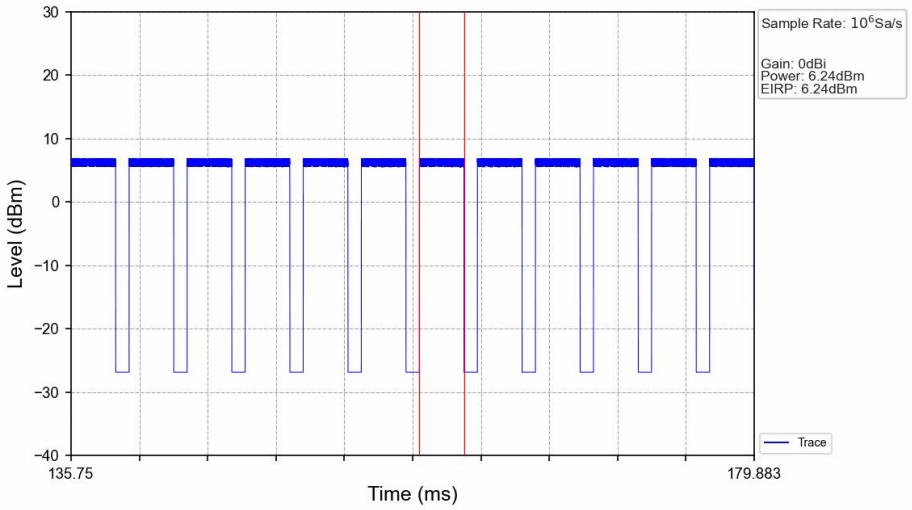
Burst No.	1	2	3	4	5	6	**7**	8	9	10	11	12
Length (ms)	1.527	1.527	1.527	1.527	1.527	1.526	**1.527**	1.527	1.526	1.527	1.526	1.526
Power (dBm)	7.53	0.94	4.08	4.77	7.44	3.42	**7.67**	5.26	2.80	7.10	1.76	3.25
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

8DPSK_3DH5_HOPP_Ant1_HTNV



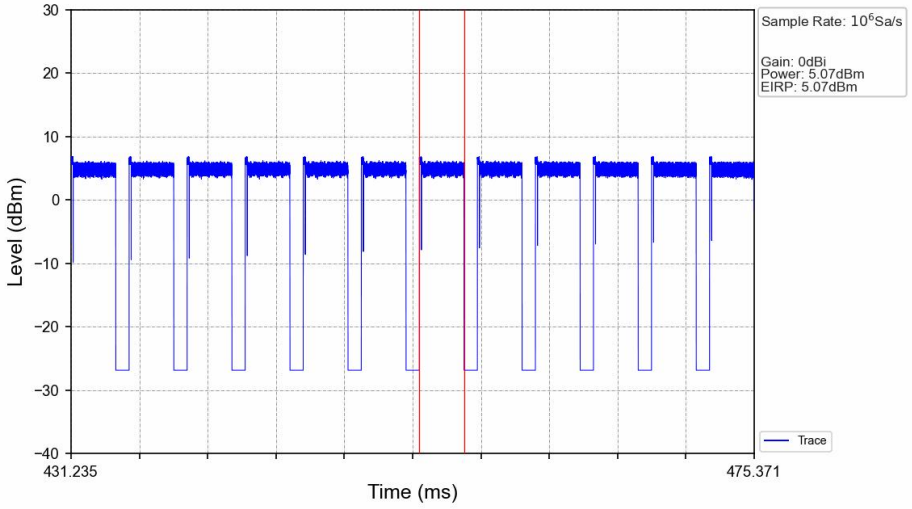
Burst No.	1	2	3	4	5	6	**7**	8	9	10	11	12
Length (ms)	2.889	2.889	2.889	2.889	2.889	2.889	**2.889**	2.889	2.888	2.888	2.888	2.888
Power (dBm)	4.95	4.99	5.02	5.04	5.06	5.07	**5.08**	5.07	5.06	5.05	5.04	4.98
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

GFSK_DH5_HOPP_Ant1_LTNV



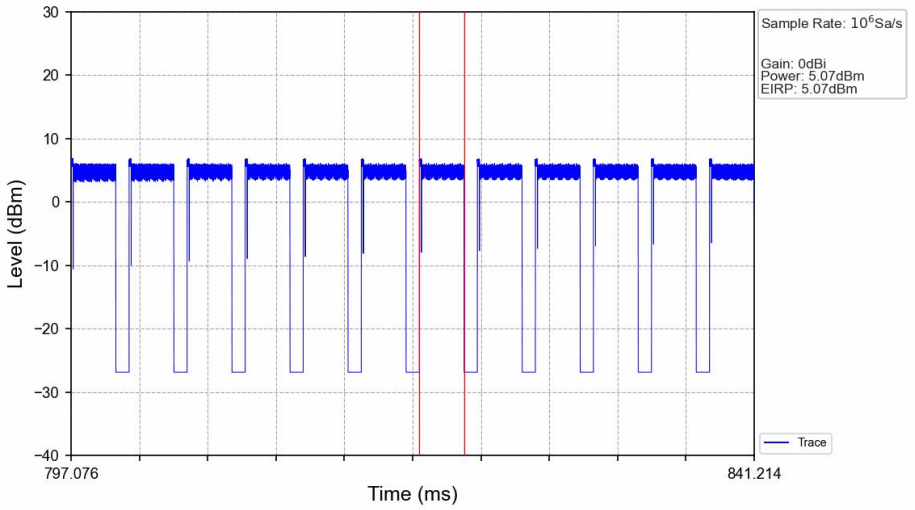
Burst No.	1	2	3	4	5	6	**7**	8	9	10	11	12
Length (ms)	2.883	2.883	2.883	2.884	2.884	2.884	**2.884**	2.884	2.884	2.884	2.884	2.884
Power (dBm)	6.24	6.24	6.24	6.24	6.24	6.24	**6.24**	6.24	6.24	6.24	6.24	6.24
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

Pi/4DQPSK_2DH5_HOPP_Ant1_LTNV



Burst No.	1	2	3	4	5	6	**7**	8	9	10	11	12
Length (ms)	2.887	2.887	2.887	2.887	2.887	2.887	**2.887**	2.886	2.886	2.886	2.886	2.886
Power (dBm)	4.98	5.01	5.04	5.05	5.07	5.07	**5.07**	5.07	5.05	5.03	5.01	4.98
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

8DPSK_3DH5_HOPP_Ant1_LTNV



Burst No.	1	2	3	4	5	6	**7**	8	9	10	11	12
Length (ms)	2.889	2.889	2.889	2.889	2.889	2.889	**2.889**	2.889	2.888	2.888	2.888	2.888
Power (dBm)	4.96	4.98	5.04	5.06	5.07	5.07	**5.07**	5.07	5.06	5.03	5.01	4.99
Remark	/	/	/	/	/	/	**Max**	/	/	/	/	/

2. Accumulated Transmit Time, Frequency Occupation And Hopping Sequence

2.1 Test Result

2.1.1 ATT-Ant1

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	HOPP Num_Mini	Data Points Of T_on	Duration Of One Point (ms)	Accumulated Transmit Time (ms)		Verdict
								Result	Limit	
NTNV	GFSK	SISO	HOPP	DH5	79	282	1.053	296.946	<=400	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	79	277	1.053	291.681	<=400	Pass
	8DPSK	SISO	HOPP	3DH5	79	299	1.053	314.847	<=400	Pass

2.1.2 FO-Ant1

Ant1									
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	HOPP Num_Mini	Dwell Time (ms)	Frequency Occupation (N)		Verdict
							Result	Limit	
NTNV	GFSK	SISO	HOPP	DH5	79	3.750	5	>=1	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	79	3.750	7	>=1	Pass
	8DPSK	SISO	HOPP	3DH5	79	3.750	5	>=1	Pass

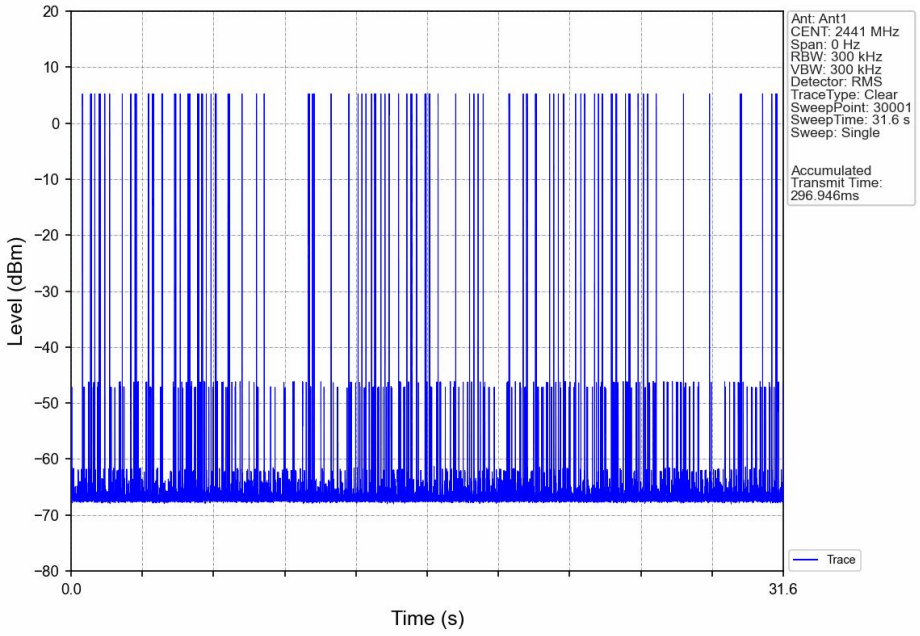
2.1.3 HS-Ant1

Ant1									
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	HOPP Num (N)		-20 dB Bandwidth (MHz)		Verdict
					Result	Limit	Result	Limit	
NTNV	GFSK	SISO	HOPP	DH5	79	>=15	78.944	>=58.45	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	79.383	>=58.45	Pass
	8DPSK	SISO	HOPP	3DH5	79	>=15	79.353	>=58.45	Pass

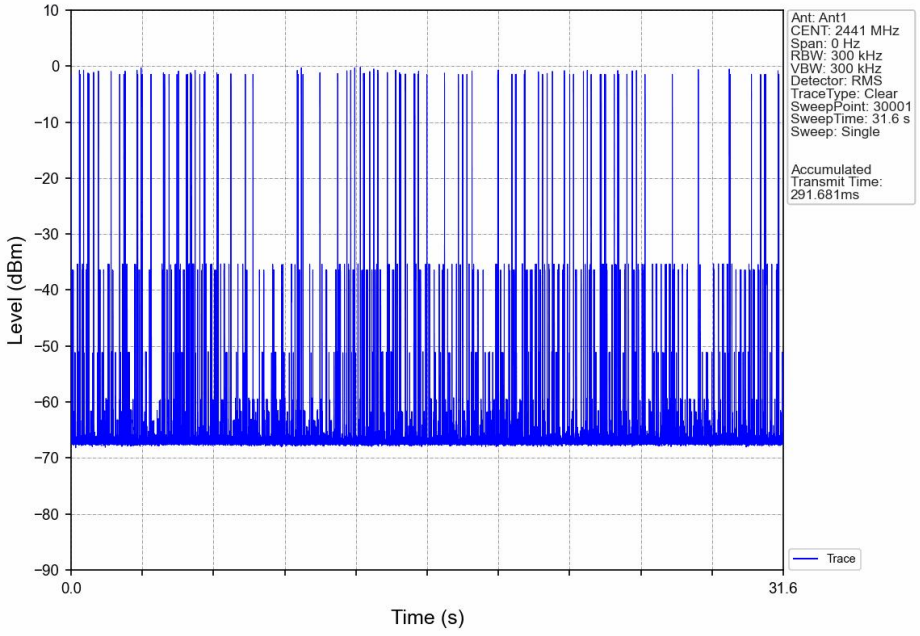
2.2 Test Graph

2.2.1 ATT-Ant1

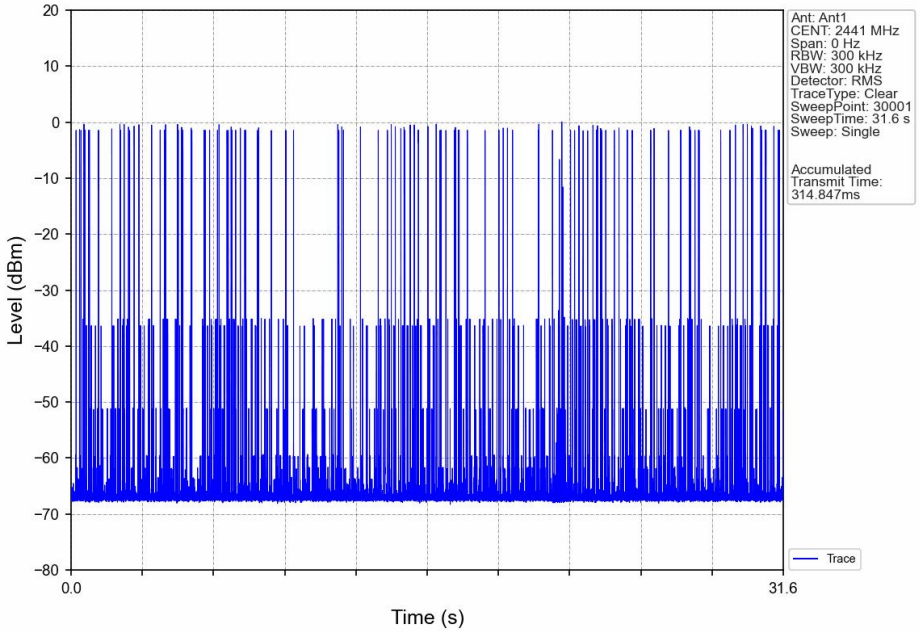
GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

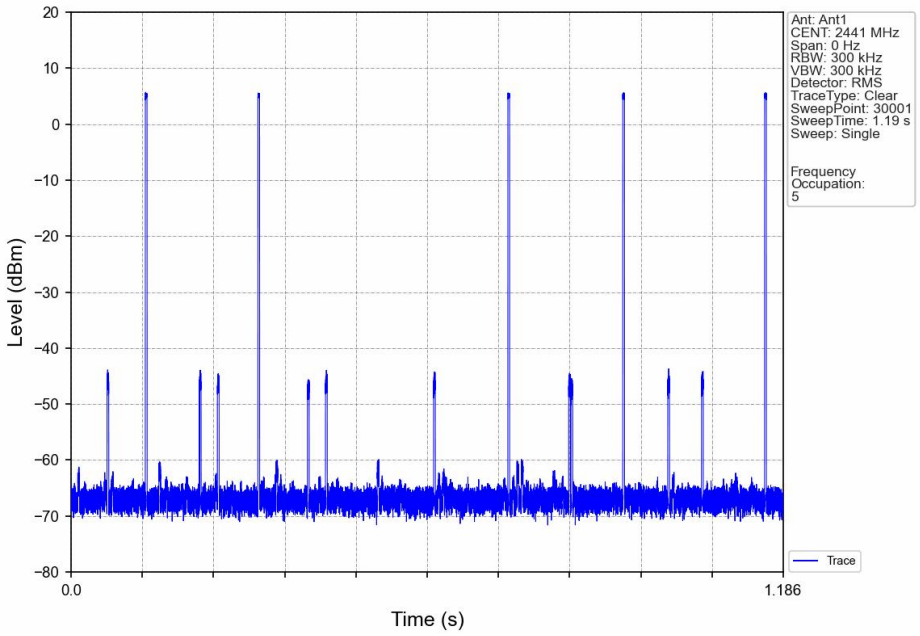


8DPSK_3DH5_HOPP_Ant1_NTNV

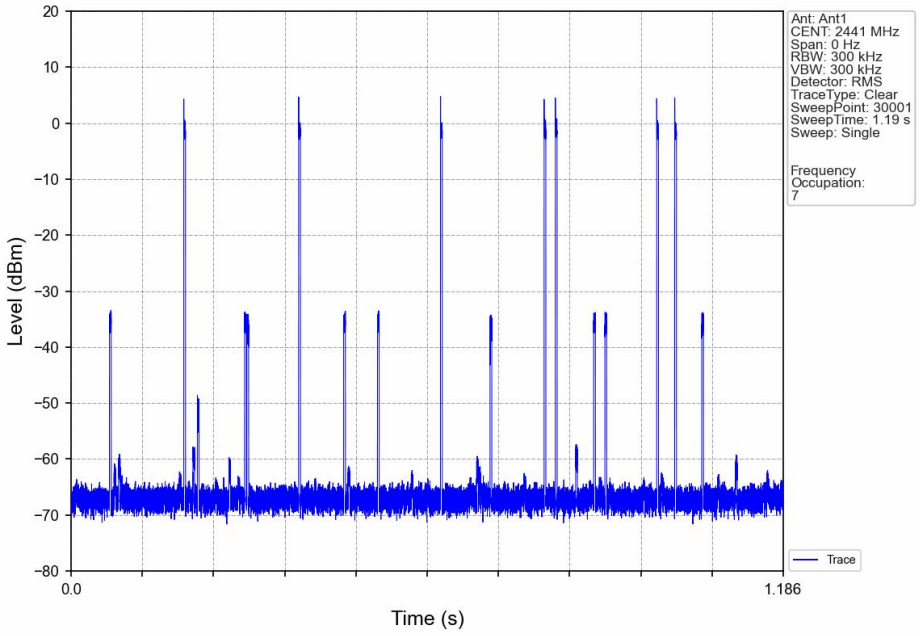


2.2.2 FO-Ant1

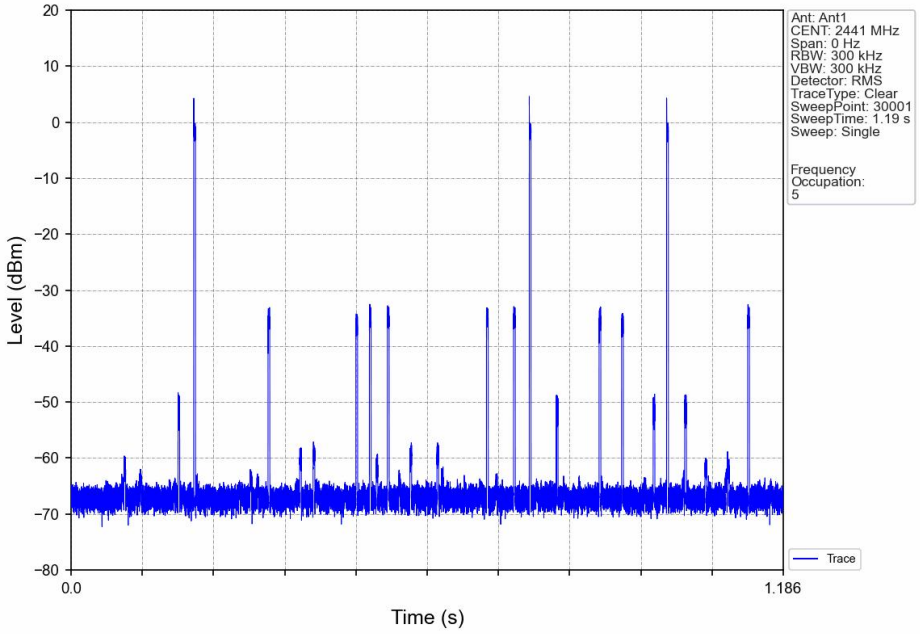
GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

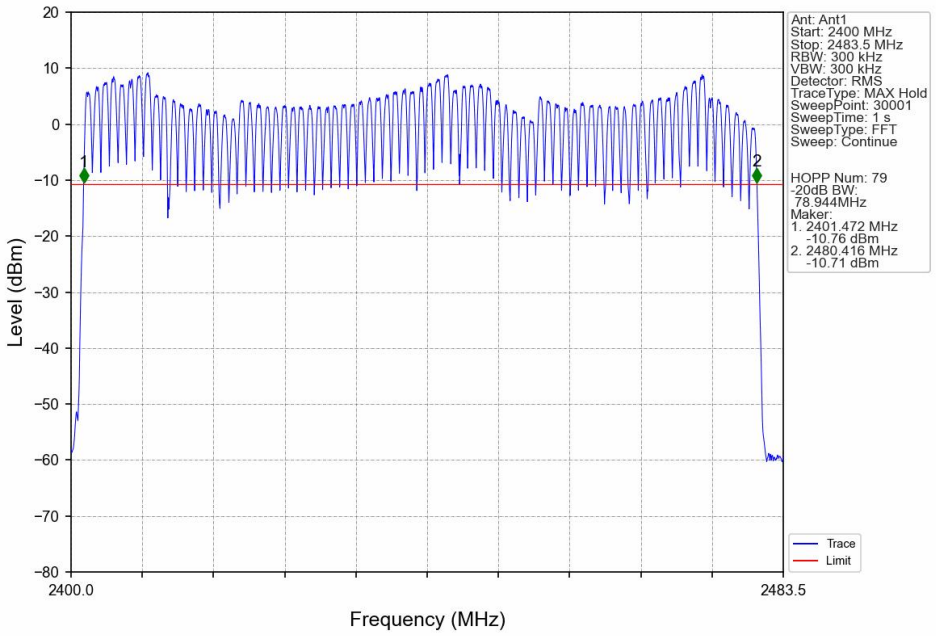


8DPSK_3DH5_HOPP_Ant1_NTNV

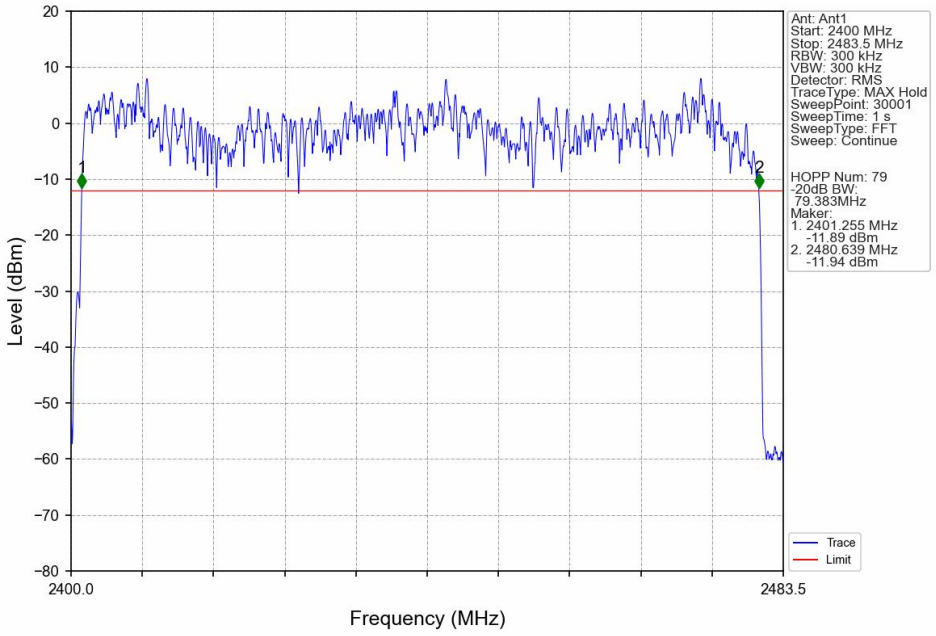


2.2.3 HS-Ant1

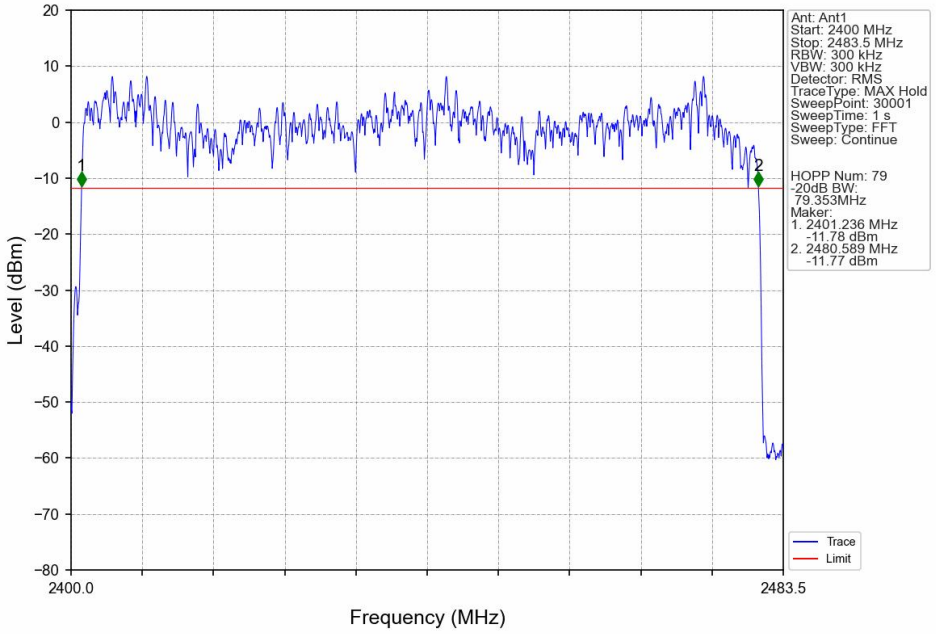
GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



3. Hopping Frequency Separation

3.1 Test Result

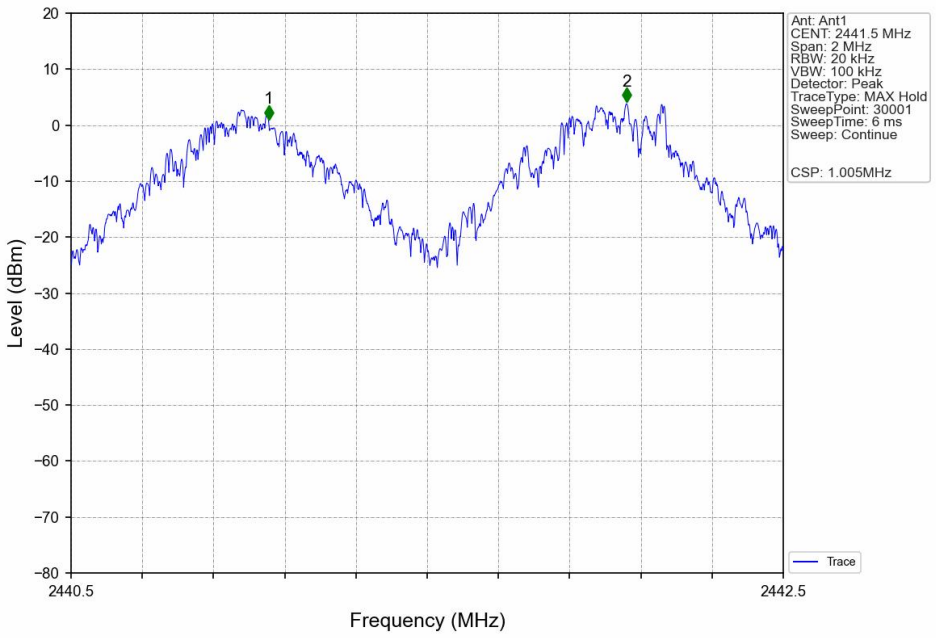
3.1.1 Ant1

Ant1							
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	Limit (MHz)	Verdict
NTNV	GFSK	SISO	HOPP	DH5	1.005	>=0.1	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	0.982	>=0.1	Pass
	8DPSK	SISO	HOPP	3DH5	1.146	>=0.1	Pass

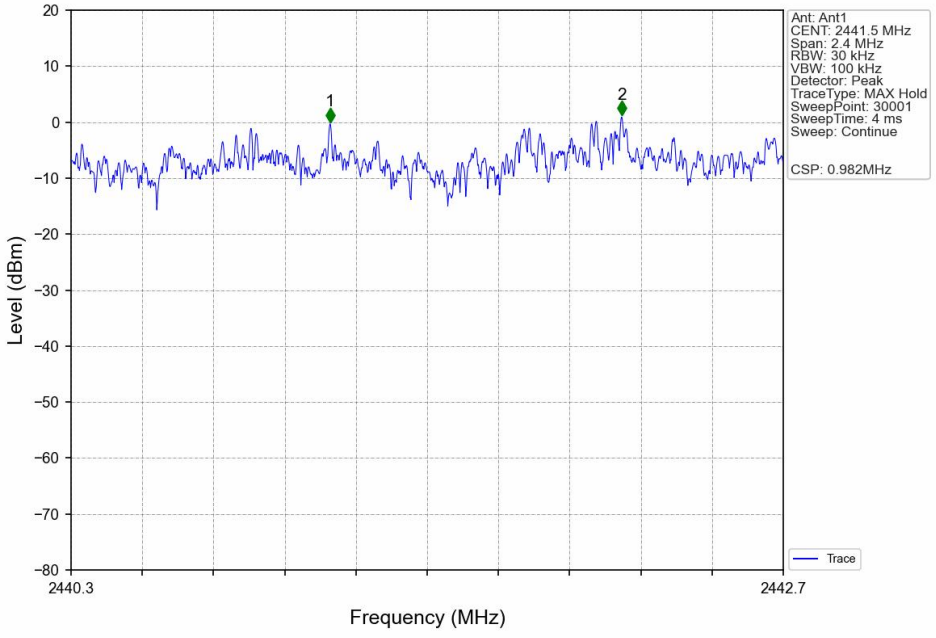
3.2 Test Graph

3.2.1 Ant1

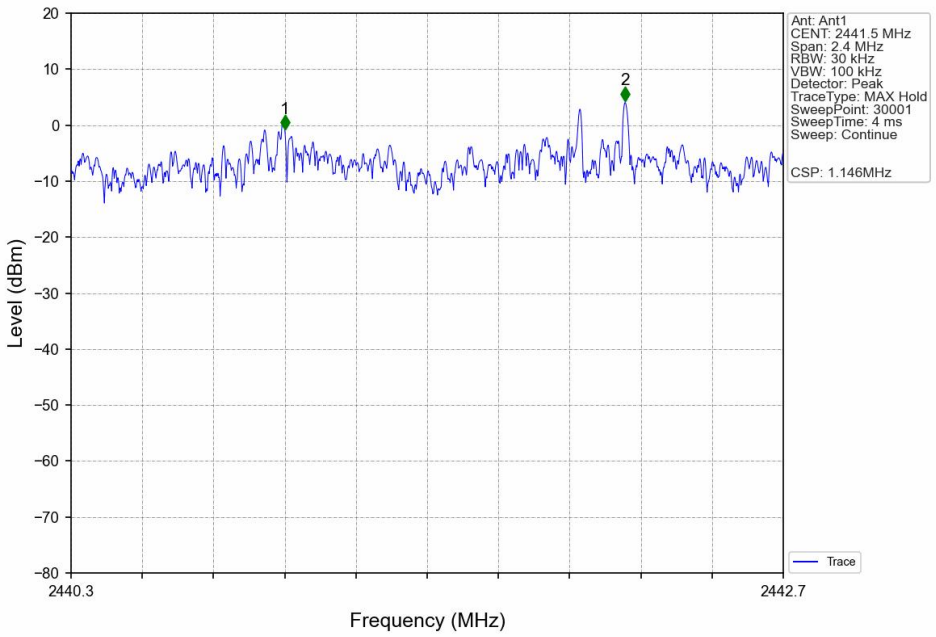
GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



4. Occupied Channel Bandwidth

4.1 Test Result

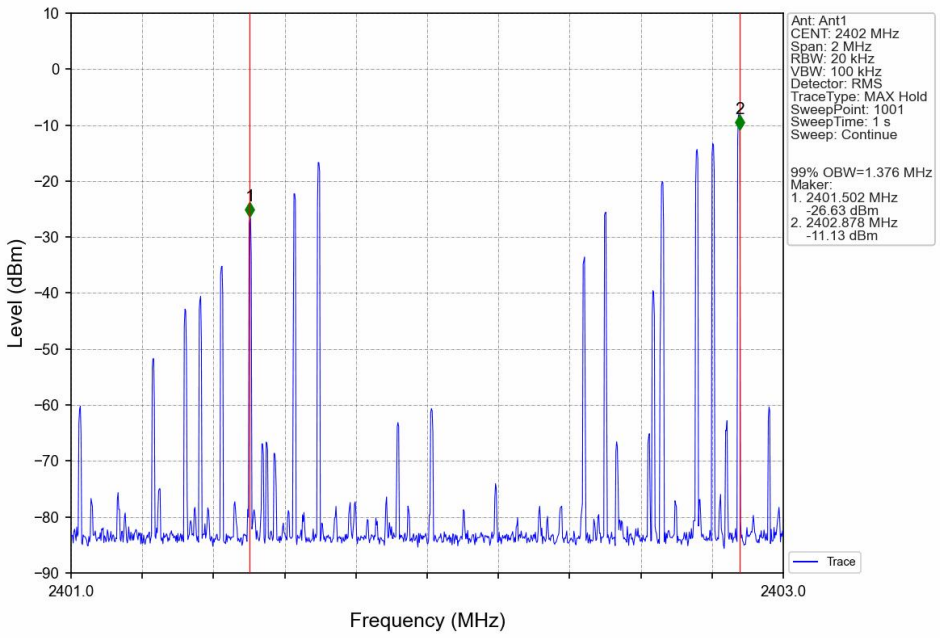
4.1.1 OBW_Ant1

Ant1									
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	OBW (MHz)	Frequency Range (MHz)			Verdict
					Result	FL	FH	Limit	
NTNV	GFSK	SISO	2402	DH5	1.376	2401.502	/	>=2400	Pass
			2480	DH5	1.094	/	2480.369	<=2483.5	Pass
	Pi/4DQPSK	SISO	2402	2DH5	1.202	2401.403	/	>=2400	Pass
			2480	2DH5	1.177	/	2480.578	<=2483.5	Pass
	8DPSK	SISO	2402	3DH5	1.209	2401.395	/	>=2400	Pass
			2480	3DH5	1.195	/	2480.589	<=2483.5	Pass

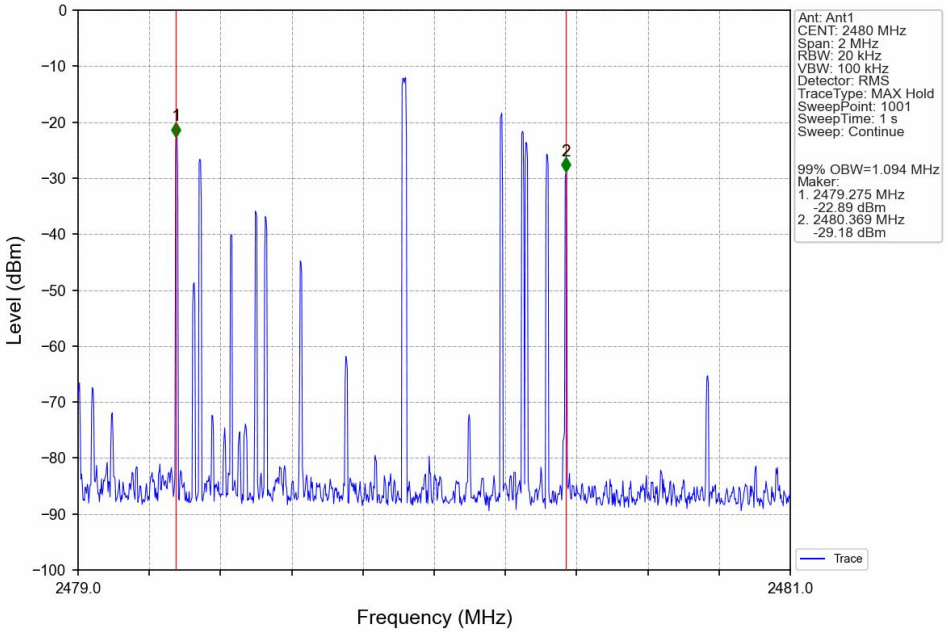
4.2 Test Graph

4.2.1 OBW_Ant1

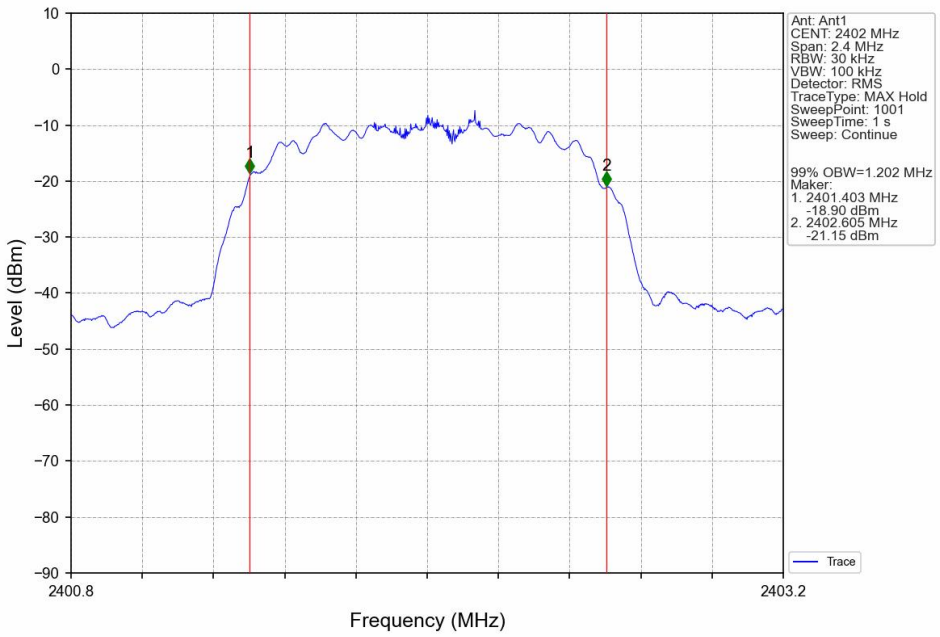
GFSK_DH5_2402MHz_Ant1_NTNV



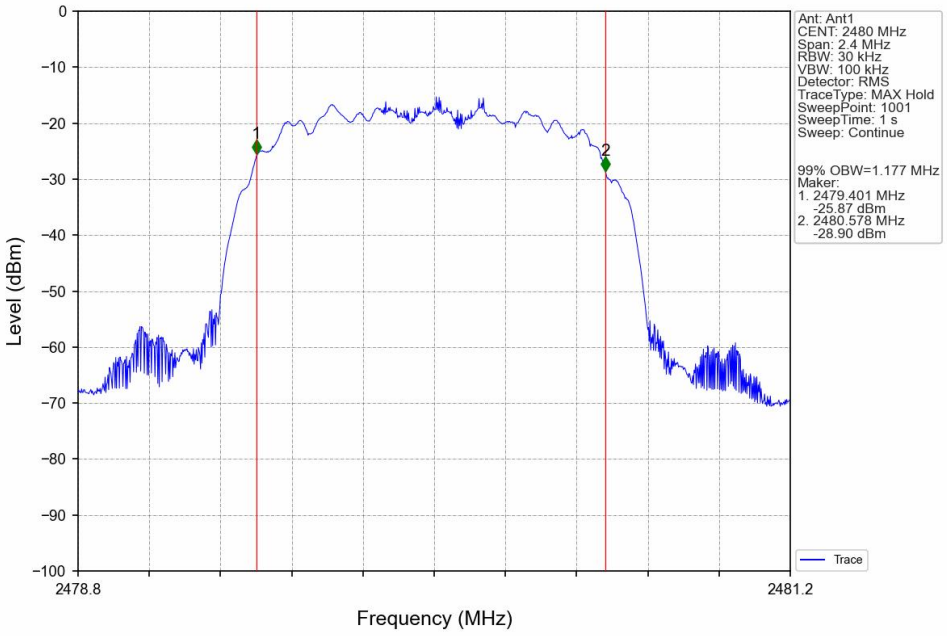
GFSK_DH5_2480MHz_Ant1_NTNV



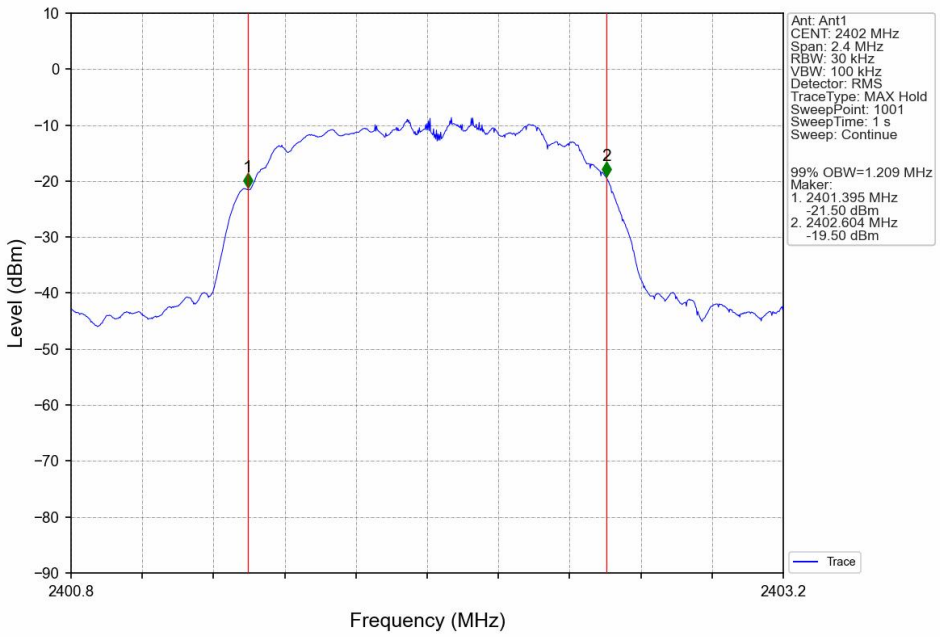
Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



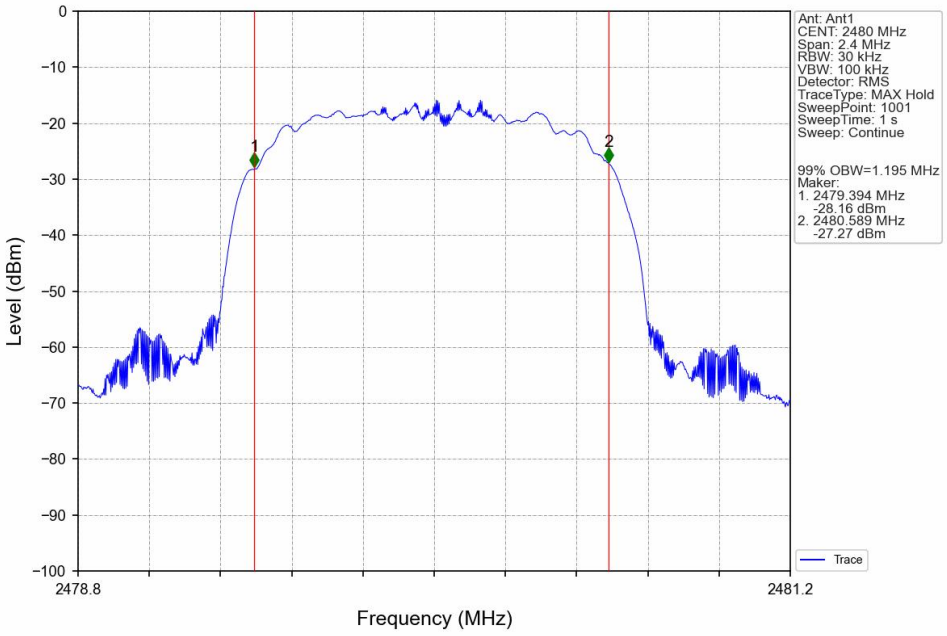
Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV



8DPSK_3DH5_2402MHz_Ant1_NTNV



8DPSK_3DH5_2480MHz_Ant1_NTNV



5. Transmitter Unwanted Emissions In The Out-Of-Band Domain

5.1 Test Result

5.1.1 GFSK-Ant1

GFSK Ant1 NTNV								
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Test Freq. (MHz)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
GFSK	SISO	HOPP	DH5	1	2397.748	-62.01	<=-20	Pass
					2398.124	-62.02	<=-20	Pass
					2399.124	-62.04	<=-10	Pass
					2399.500	-61.90	<=-10	Pass
		HOPP	DH5	1	2484.000	-61.96	<=-10	Pass
					2484.094	-61.87	<=-10	Pass
					2485.094	-61.91	<=-20	Pass
					2485.188	-61.88	<=-20	Pass

5.1.2 Pi/4DQPSK-Ant1

Pi/4DQPSK Ant1 NTNV								
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Test Freq. (MHz)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
Pi/4DQPSK	SISO	HOPP	2DH5	1	2398.096	-61.90	<=-20	Pass
					2398.298	-62.06	<=-20	Pass
					2399.298	-62.02	<=-10	Pass
					2399.500	-61.56	<=-10	Pass
		HOPP	2DH5	1	2484.000	-61.92	<=-10	Pass
					2484.177	-61.94	<=-10	Pass
					2485.177	-61.93	<=-20	Pass
					2485.354	-61.88	<=-20	Pass

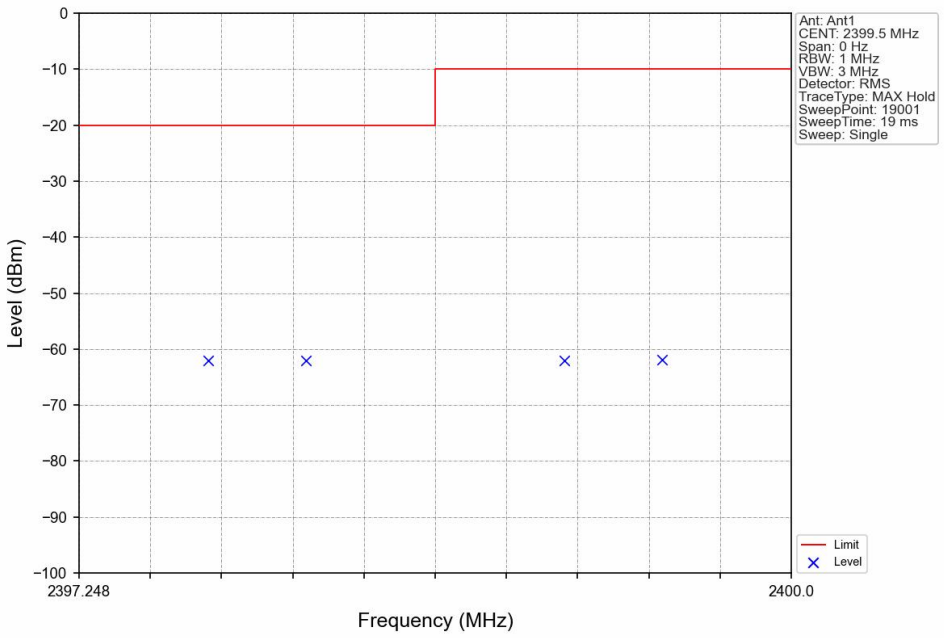
5.1.3 8DPSK-Ant1

8DPSK Ant1 NTNV								
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Test Freq. (MHz)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
8DPSK	SISO	HOPP	3DH5	1	2398.082	-62.03	<=-20	Pass
					2398.291	-61.81	<=-20	Pass
					2399.291	-62.00	<=-10	Pass
					2399.500	-61.99	<=-10	Pass
		HOPP	3DH5	1	2484.000	-61.93	<=-10	Pass
					2484.195	-61.88	<=-10	Pass
					2485.195	-61.92	<=-20	Pass
					2485.390	-61.92	<=-20	Pass

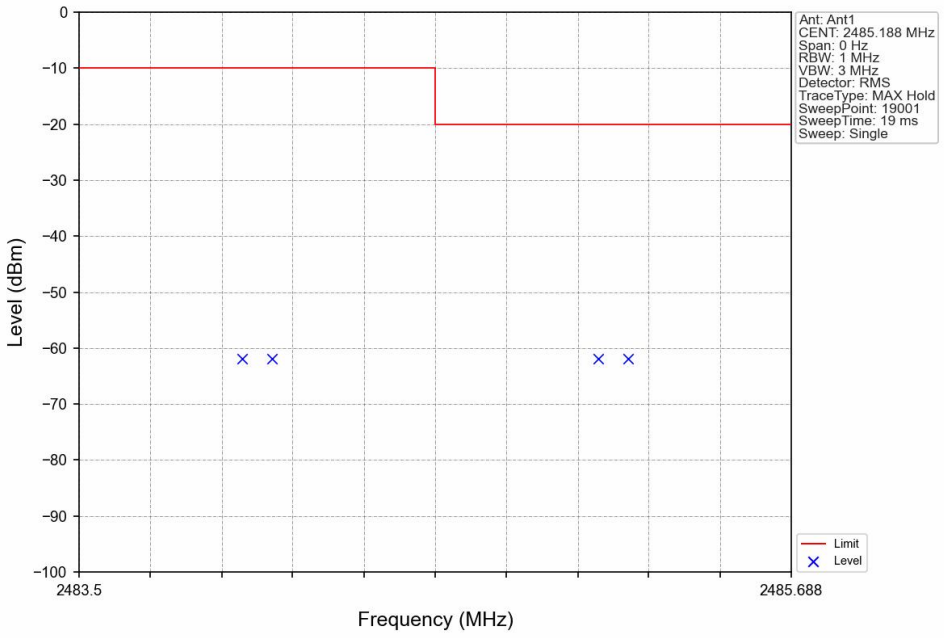
5.2 Test Graph

5.2.1 GFSK-Ant1

GFSK_DH5_HOPP_Ant1_NTNV

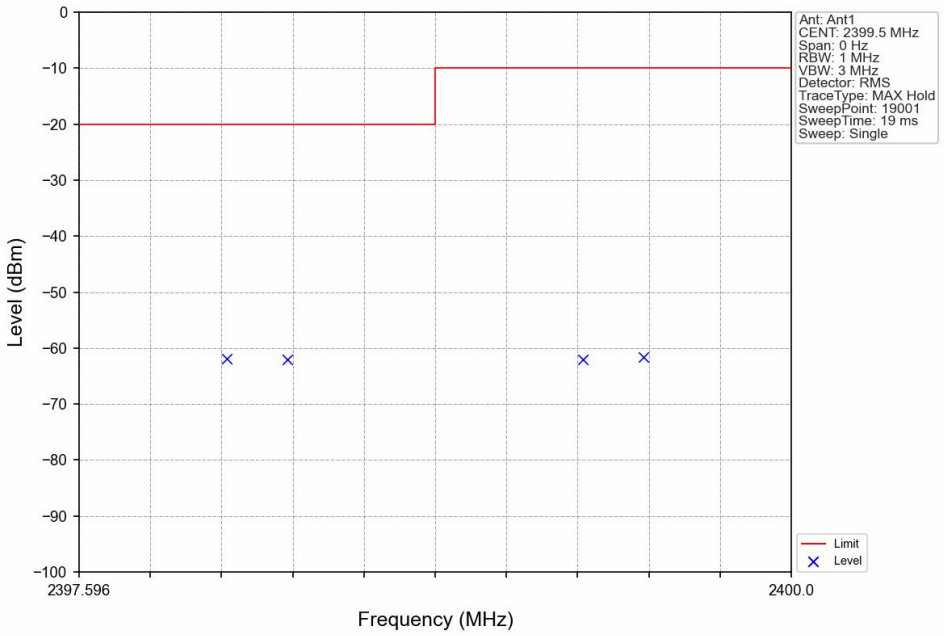


GFSK_DH5_HOPP_Ant1_NTNV

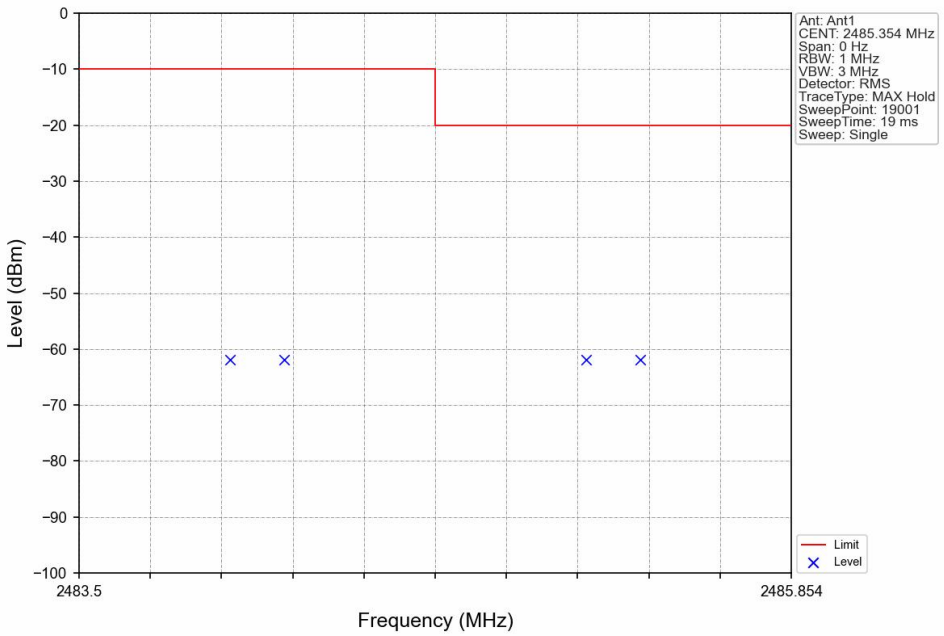


5.2.2 Pi/4DQPSK-Ant1

Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

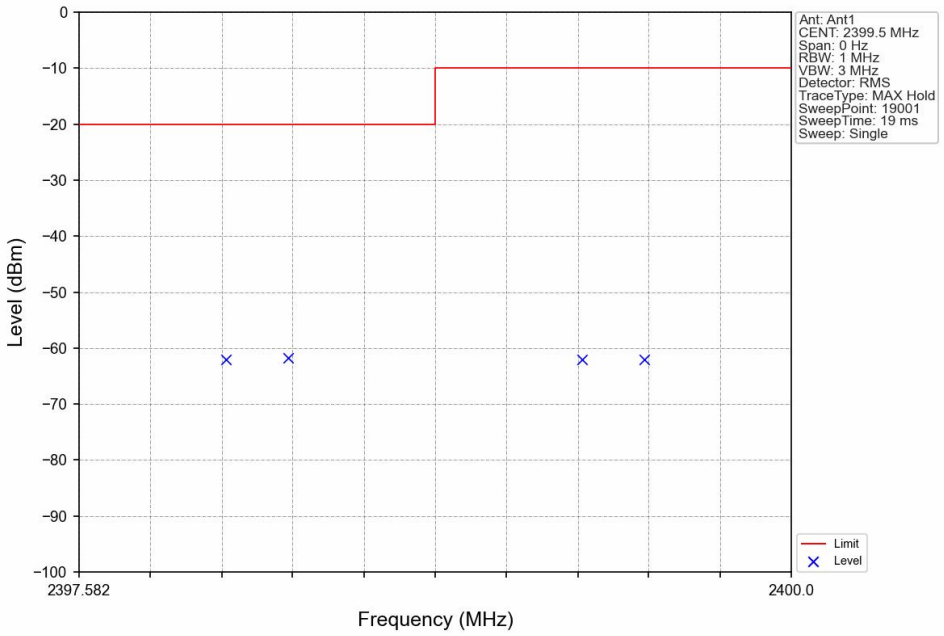


Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

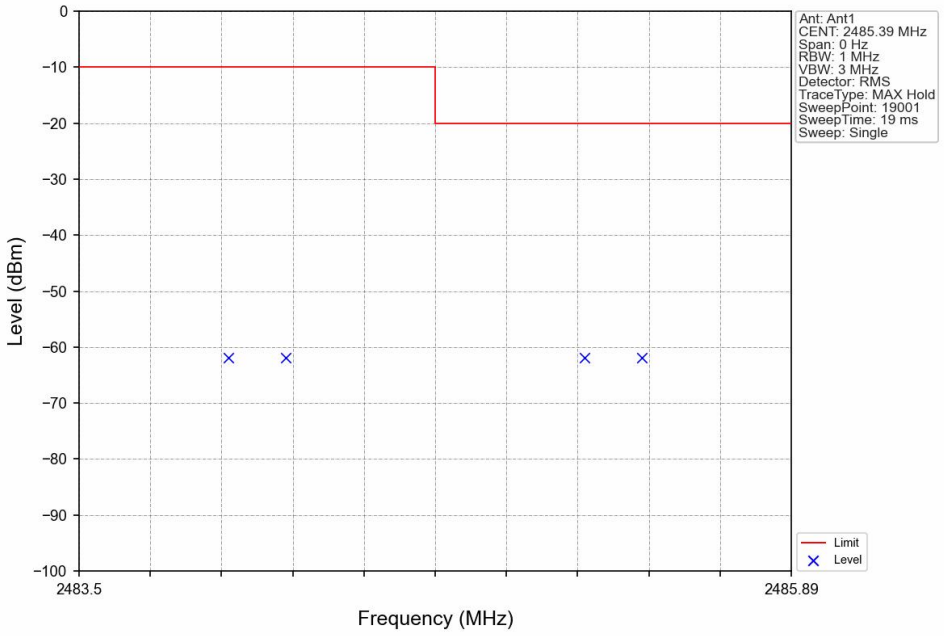


5.2.3 8DPSK-Ant1

8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



※※※※※ END OF APPENDIX ※※※※※

RED-RADIO

ETSI EN 300 328 V2.2.2 (2019-07)

TEST REPORT

Client Name	:	Shenzhen Blue Vision Corporation Limited
Address	:	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.
Product Name	:	Smart Glasses
Test Model No.	:	Bomanlon BV-01
Report No.	:	CCTI260427107W2-R1
Issued Date	:	May 22, 2026

Prepared By	:	Shenzhen CCTI Technology Co., Ltd.
Address	:	A1-1, Building B1&B2, No.45 Gangtou Road, Bogang District, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Contact Info	:	Service Tel : 0086-400-188-9662
		CCTI E-mail : ccti@ccti-lab.com
		CCTI Web : www.ccti-lab.com

Scan code for report

TEST REPORT VERIFICATION

Applicant	:	Shenzhen Blue Vision Corporation Limited
Address	:	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.
Manufacturer	:	Shenzhen Blue Vision Corporation Limited
Address	:	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.
Product Name	:	Smart Glasses
Test Model No.	:	Bomanlon BV-01
Series No.	:	Bomanlon BV-02, Bomanlon BV-03, Bomanlon BV-04, Bomanlon BV-05, Bomanlon BV-06, Bomanlon BV-07, Bomanlon BV-08, Bomanlon BV-09, Bomanlon BV-10, Bomanlon BL-01, Bomanlon BL-02, Bomanlon BL-03, Bomanlon BL-04, Bomanlon BL-05, Bomanlon BL-06, Bomanlon BL-07, Bomanlon BL-08, Bomanlon BL-09, Bomanlon BL-10, Bomanlon BL-11, Bomanlon BL-12, Bomanlon BL-13, Bomanlon BL-14, Bomanlon BL-15, Bomanlon BL-16, Bomanlon BS-01, Bomanlon BS-02, Bomanlon BS-03, Bomanlon BS-04, Bomanlon BS-05, Bomanlon BS-06, Bomanlon BS-07, Bomanlon BS-08, Bomanlon BS-09, Bomanlon BS-10
Trade Mark	:	BOMANLON
Power Supply	:	Input: 5V⎓1A
Test Date	:	Apr. 30, 2026 to May 07, 2026
Test Standard(s)	:	**ETSI EN 300 328 V2.2.2 (2019-07)**
Test Result	:	**PASS**

This device described above has been tested by CCTI, and the test results show that the equipment under test (EUT) is in compliance with the 2014/53/EU RED Directive Art.3.2 requirements. The results shown in this test report refer only to the sample(s) tested unless other wise stated and the sample(s) are retained for 30 days only.

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Producer By : Betty Liang (Betty Liang / Engineer) **Date** : May 22, 2026

Authorized Signer : (Corey Mao / Manager) **Date** : May 22, 2026

SHENZHEN CCTI TECHNOLOGY CO., LTD. APPROVED

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Revision History

Revision	Description	Issued Data	Remark
V0	Initial Test Report Release	Apr. 01, 2025	Corey Mao

1. TEST SUMMARY

Test procedures according to the technical standards:

ETSI EN 300 328 V2.2.2 (2019-07): Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU.

No.	Test Item	Clause No.	Result
Transmitter Parameters			
1	RF Output Power	4.3.2.2	P
2	Power Spectral Density	4.3.2.3	P
3	Duty Cycle,Tx-sequence, Tx-gap	4.3.2.4	N/A
4	Accumulated Transmit Time, Frequency Occupation and Hopping Sequence	4.3.1.4	N/A
5	Hopping Separation	4.3.1.5	N/A
6	Medium Utilisation	4.3.2.5	N/A
7	Adaptivity, Short Control Signalling Transmissions	4.3.2.6	N/A
8	Occupied Channel Bandwidth	4.3.2.7	P
9	Transmitter unwanted emissions in the out-of-band domain	4.3.2.8	P
10	Transmitter Unwanted Emissions In The Spurious Domain (Conducted & Radiated)	4.3.2.9	P
Receiver Parameters			
11	Receiver Spurious Emissions (Conducted & Radiated)	4.3.2.10	P
12	Receiver Blocking	4.3.2.11	P
13	Geo-location Capability	4.3.2.12	N/A

NOTE:

(1) P is an abbreviation for Pass, F is an abbreviation for Fail, N/A is an abbreviation for Not Applicable.

(2) Decision rules for the conclusion of this test report: decision by actual test data without considering measurement uncertainty.

1.1. Test Facility

Shenzhen CCTI Technology Co., Ltd.

A1-1, Building B1&B2, No.45 Gangtou Road, Bogang District, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

1.2. Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Item	Uncertainty
Uncertainty for Radiation Emission Test in 3m Chamber (30MHz to 1GHz)	2.74dB (Polarize: V)
	2.76dB (Polarize: H)
Uncertainty for Radiation Emission Test in 3m Chamber (1GHz to 18GHz)	4.29dB (Polarize: V)
	4.82dB (Polarize: H)
Uncertainty for Radio Frequency	48.24KHz
Uncertainty for Conducted RF Power	0.41dB
Uncertainty for Power Spectral Density	0.39 dB
Occupied-Bandwidth	968Hz
Conducted-Spurious Emission	1.26dB
(95% Confidence Levels, k=2)	

2. GENERAL INFORMATION

2.1. General Description of EUT

EUT	:	Smart Glasses
Trademark	:	BOMANLON
Model Number	:	Bomanlon BV-01
Serial Model	:	Bomanlon BV-02, Bomanlon BV-03, Bomanlon BV-04, Bomanlon BV-05, Bomanlon BV-06, Bomanlon BV-07, Bomanlon BV-08, Bomanlon BV-09, Bomanlon BV-10, Bomanlon BL-01, Bomanlon BL-02, Bomanlon BL-03, Bomanlon BL-04, Bomanlon BL-05, Bomanlon BL-06, Bomanlon BL-07, Bomanlon BL-08, Bomanlon BL-09, Bomanlon BL-10, Bomanlon BL-11, Bomanlon BL-12, Bomanlon BL-13, Bomanlon BL-14, Bomanlon BL-15, Bomanlon BL-16, Bomanlon BS-01, Bomanlon BS-02, Bomanlon BS-03, Bomanlon BS-04, Bomanlon BS-05, Bomanlon BS-06, Bomanlon BS-07, Bomanlon BS-08, Bomanlon BS-09, Bomanlon BS-10
Model Difference	:	The product is different for model number and outlook.
Power Supply	:	Input: 5V⎓1A
Radio Technology	:	Bluetooth V5.4 BLE
Operation frequency	:	2402-2480MHz
Channel No.	:	40 Channels
Channel Separation	:	2MHz
Data rate	:	1Mbps/2Mbps
Modulation	:	GFSK
Antenna Gain (Peak)	:	0dBi
Antenna Type	:	Internal Antenna
Hardware Version	:	V1.0
Software Version	:	V1.0
Intend use environment	:	Residential, commercial and light industrial environment

Remark:

(1) Bomanlon BV-01 was selected as the test model and the datas have been recorded in this report.

(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.2. Test Conditions and Channel

Channel	Frequency(MHz)	Channel	Frequency(MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

	Normal Test Conditions	Extreme Test Conditions
Temperature range	15°C - 35°C	-30°C ~ 70°C Note: (1)
Relative Humidity	20% - 75%	N/A
Pressure range	86-106kPa	86-106kPa
Supply Voltage	DC 5V	DC 4.5V-DC 5.5V Note: (2)

Mode	Channel	Frequency(MHz)
GFSK 1Mbps	Low : CH0	2402
	Middle: CH19	2440
	High: CH39	2480

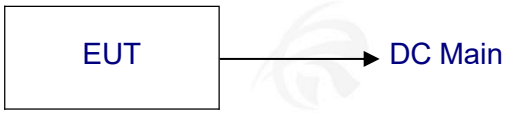
Note:

(1) The HT 40°C and LT -10°C was declared by manufacturer, The EUT couldn't be operate normally with higher or lower temperature.

(2) The Voltage was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.

(3) The measurements are performed at the highest, middle, lowest available channels.

2.3. Description of Test Setup



2.4. Description Test Peripheral and EUT Peripheral

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Trade Mark	Model/Type No.	Series No.	Note

Item	Shielded Type	Ferrite Core	Length	Note

Note:

(1) The support equipment was authorized by Declaration of Confirmation.

(2) For detachable type I/O cable should be specified the length in cm in『Length』column.

(3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.5. Description of Test Equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last Cal.	Next Cal.
1	966 Chamber	Yiheng	9*6*6	ZJE-001	2025.07.12	2028.07.11
2	Spectrum Analyzer	Agilent	N9020A	ZJE-024	2025.07.12	2026.07.11
3	EMI Test Receiver	R&S	ESCI7	ZJE-003	2025.07.12	2026.07.11
4	Broadband antenna	Schwarzbeck	VULB 9163	ZJE-004	2025.07.12	2026.07.11
5	Horn antenna	Schwarzbeck	BBHA 9120D	ZJE-005	2025.07.12	2026.07.11
6	Loop antenna	Schwarzbeck	FMZB 1519 B	ZJE-015	2025.07.12	2026.07.11
7	Synthesizer	R&S	CMW500	ZJE-036	2025.07.12	2026.07.11
8	Vector Signal Generator	Agilent	N5182A	ZJE-037	2025.07.12	2026.07.11
9	Analog signal generator	Agilent	N5181A	ZJE-038	2025.07.12	2026.07.11
10	Power Supply	Agilent	E3632A	ZJE-039	2025.07.12	2026.07.11
11	Power meter	KEYSIGHT	E4419B	ZJE-028	2025.07.12	2026.07.11
12	RF Automatic Test System	TST	TSTRF562	ZJE-042	/	/
13	RSE Test Software	Frad	EZ-RE	ZJE-008	/	/

2.6. Information as Required

a) The type of modulation used by the equipment:

☐ FHSS
☒ non-FHSS

b) In case of FHSS :

☐ In case of non-Adaptive FHSS equipment:
The number of Hopping Frequencies:
☐ In case of Adaptive Frequency Hopping Equipment:
The maximum number of Hopping Frequencies:
The minimum number of Hopping Frequencies:
The Dwell Time:
The Minimum Channel Occupation Time:

c) Adaptive / non-adaptive Equipment:

☐ non-adaptive Equipment
☒ adaptive Equipment without the possibility to switch to a non-adaptive mode
☐ adaptive Equipment which can also operate in a non-adaptive mode

d) In case of adaptive Equipment:

The maximum Channel Occupancy Time implemented by the equipment: ms

☒ The equipment has implemented an LBT based DAA mechanism

☐ In case of equipment using modulation different from FHSS:

☐ The equipment is Frame Based equipment

☐ The equipment is Load Based equipment

☐ The equipment can switch dynamically between Frame Based and Load Based equipment

The CCA time implemented by the equipment: ..... µs

The value q as referred to in clause 4.3.2.5.2.2.2 .....

☐ The equipment has implemented an non-LBT based DAA mechanism

☐ The equipment can operate in more than one adaptive mode

e) In case of non-adaptive Equipment:

The maximum RF Output Power (e.i.r.p.): -5.97dBm

The maximum (corresponding) Duty Cycle: …….

Equipment with dynamic behaviour, that behaviour is described here. (e.g. the different combinations of duty cycle and corresponding power levels to be declared):

f) The worst case operational mode for each of the following tests:

☒ RF Output Power: -5.97dBm

☒ Power Spectral Density: -6.08dBm/MHz

☐ Duty cycle, Tx-Sequence, Tx-gap:

☐ Accumulated Transmit time, Frequency Occupation & Hopping Sequence (only for FHSS equipment):

☐ Hopping Frequency Separation (only for FHSS equipment):

☐ Medium Utilization:

☐ Adaptivity & Receiver Blocking:

☒ Occupied Channel Bandwidth: 2.092MHz

☒ Transmitter unwanted emissions in the OOB domain: -47.42 dBm/MHz

☐ Transmitter unwanted emissions in the spurious domain:

☐ Receiver spurious emissions :

g) The different transmit operating modes (tick all that apply):

☒ Operating mode 1: Single Antenna Equipment

☒ Equipment with only one antenna

☐ Equipment with two diversity antennas but only one antenna active at any moment in time

☐ Smart Antenna Systems with two or more antennas, but operating in a (legacy) mode where only One antenna is used (es.g. IEEE 802.11™ [i.3] legacy mode in smart antenna systems)

☐ Operating mode 2: Smart Antenna Systems - Multiple Antennas without beam forming

☐ Single spatial stream / Standard throughput / (e.g. IEEE 802.11™ [i.3] legacy mode)

☐ High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 1

☐ High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 2

NOTE 1: Add more lines if more channel bandwidths are supported.

☐ Operating mode 3: Smart Antenna Systems - Multiple Antennas with beam forming

☐ Single spatial stream / Standard throughput (e.g. IEEE 802.11™ [i.3] legacy mode)

☐ High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 1

☐ High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 2

NOTE 2: Add more lines if more channel bandwidths are supported.

h) In case of Smart Antenna Systems:

The number of Receive chains: .....

The number of Transmit chains: .....

☐ symmetrical power distribution

☐ asymmetrical power distribution

In case of beam forming, the maximum (additional) beam forming gain: 0dBi

NOTE: The additional beam forming gain does not include the basic gain of a single antenna.

i) Operating Frequency Range(s) of the equipment:

Operating Frequency Range 1: 2402 MHz to 2480 MHz

Operating Frequency Range 2: ..... MHz to ..... MHz

NOTE: Add more lines if more Frequency Ranges are supported.

j) Nominal Channel Bandwidth(s):

☒ Occupied Channel Bandwidth 1: 2.092MHz

☐ Occupied Channel Bandwidth 2:

NOTE: Add more lines if more channel bandwidths are supported.

k) Type of Equipment (stand-alone, combined, plug-in radio device, etc.):

☒ Stand-alone

☐ Combined Equipment (Equipment where the radio part is fully integrated within another type of equipment)

☐ Plug-in radio device (Equipment intended for a variety of host systems)

☐ Other

l) The normal and the extreme operating conditions that apply to the equipment:

Operating temperature range: -30° C to 70° C

Operating voltage range: 5V ☐ AC ☒ DC

Details provided are for the: ☐ stand-alone equipment

☒ combined (or host) equipment

☐ test jig

m) The intended combination(s) of the radio equipment power settings and one or more antenna assemblies and their corresponding e.i.r.p. levels:

Antenna Type:

☒ Internal Antenna

Antenna Gain: 0dBi

If applicable, additional beamforming gain (excluding basic antenna gain): ..... dBm

☐ Temporary RF connector provided

☐ No temporary RF connector provided

☐ Dedicated Antennas (equipment with antenna connector)

☐ Single power level with corresponding antenna(s)

☐ Multiple power settings and corresponding antenna(s)

Number of different Power Levels: .....

Power Level 1: ..... dBm
Power Level 2: ..... dBm
Power Level 3: ..... dBm

NOTE 1: Add more lines in case the equipment has more power levels.
NOTE 2: These power levels are conducted power levels (at antenna connector).

n) The nominal voltages of the stand-alone radio equipment or the nominal voltages of the combined (host) equipment or test jig in case of plug-in devices:

Details provided are for the: ☒ stand-alone equipment
☐ combined (or host) equipment
☐ test jig

Supply Voltage: ☐ AC mains State AC voltage :
☒ DC State DC voltage : 5V

In case of DC, indicate the type of power source
☐ Internal Power Supply
☒ External Power Supply or AC/DC adapter
☐ Battery:
☐ Other: .....

o) Describe the test modes available which can facilitate testing:

The EUT can be into the Engineer mode for testing.

p) The equipment type (e.g. Bluetooth®, IEEE 802.11™ [i.3], IEEE 802.15.4™ [i.4], proprietary, etc.):

Bluetooth Low Energy

q) If applicable, the statistical analysis referred to in clause 5.4.1 q)

Not apply

r) If applicable, the statistical analysis referred to in clause 5.4.1 r)

Not apply

s) Geo-location Capability supported by the equipment:

☐ Yes
The geographical location determined by the equipment as defined in clause 4.3.1.13.2 or clause 4.3.2.12.2 is not accessible to the user
☒ No

t) Describe the minimum performance criteria that apply to the equipment (see clause 4.3.1.12.3 or clause 4.3.2.11.3):

The minimum performance criterion shall be a PER less than or equal to 10 %.
The intended use of the equipment should be in the normal operation without lost the communication link or no unintentionally operation occurs.

3. RF output power

3.1. Applied Procedures / Limit

The RF output power for non-FHSS equipment shall be equal to or less than 20 dBm.
NOTE: For Non-adaptive FHSS equipment, the manufacturer may have declared a reduced RF Output Power (see clause 5.4.1 m)) and associated Duty Cycle (see clause 5.4.1 e)) that will ensure that the equipment meets the requirement for the Medium Utilization (MU) factor further described in clause 4.3.2.5. This is verified by the conformance test referred to in clause 4.3.2.5.4.
For non-adaptive non-FHSS equipment, where the manufacturer has declared an RF output power of less than 20 dBm e.i.r.p., the RF output power shall be equal to or less than that declared value.
This limit shall apply for any combination of power level and intended antenna assembly.

3.2. Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2.

3.3. Test Setup



3.4. EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

3.5. Test Result

See attached BLE

4. Duty Cycle,TX-sequence,TX-gap

4.1. Applied Procedures / Limit

Non-FHSS equipment shall comply with the following:

•The Duty Cycle shall be equal to or less than the maximum value declared by the manufacturer.

•The Tx-sequence time shall be equal to or less than 10 ms.

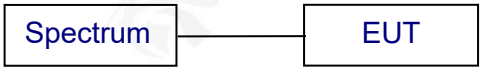
• The minimum Tx-gap time following a Tx-sequence shall be equal to the duration of that proceeding Tx-sequence with a minimum of 3,5 ms.

NOTE: For Non-adaptive FHSS equipment, the manufacturer may have declared a reduced RF Output Power (see clause 5.4.1 m)) and associated Duty Cycle (see clause 5.4.1 e)) that will ensure that the equipment meets the requirement for the Medium Utilization (MU) factor further described in clause 4.3.2.5. This is verified by the conformance test referred to in clause 4.3.2.5.4.

4.2. Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2.

4.3. Test Setup



4.4. EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

4.5. Test Result

Not applicable

These requirements do not apply for equipment with a declared RF Output power level of less than 10 dBm e.i.r.p. or for equipment when operating in a mode where the RF Output power is less than 10 dBm e.i.r.p.

5. Medium Utilisation (MU) factor

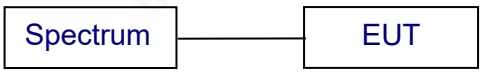
5.1. Applied Procedures / Limit

The maximum Medium Utilization factor for non-adaptive non-FHSS equipment shall be 10 %.

5.2. Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2.

5.3. Test Setup



5.4. EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

5.5. Test Result

Not Applicable

This requirement does not apply to adaptive equipment unless operating in a non-adaptive mode.
In addition, this requirement does not apply for equipment with a maximum declared RF Output power level of less than 10 dBm e.i.r.p. or for equipment when operating in a mode where the RF Output power is less than 10 dBm e.i.r.p.

6. Power Spectral Density

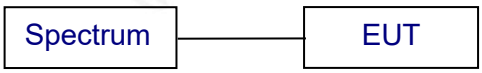
6.1. Applied Procedures / Limit

The maximum Power Spectral Density for non-FHSS equipment is 10 dBm per MHz.

6.2. Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.3.

6.3. Test Setup



6.4. EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

6.5. Test Result

See attached BLE

7. Adaptivity (Adaptive Frequency Hopping)

7.1. Applied Procedures / Limit

Adaptive non-FHSS equipment using DAA shall comply with the following minimum set of requirements:

1) During normal operation, the equipment shall evaluate the presence of a signal on its current operating channel(s). If it is determined that a signal is present with a level above the detection threshold defined in step 5 that channel shall be marked as 'unavailable'.

2) The channel(s) shall remain unavailable for a minimum time equal to 1 s after which the channel may be considered again as an 'available' channel.

3) The total time during which an equipment has transmissions on a given channel without re-evaluating the availability of that channel, is defined as the Channel Occupancy Time. The Channel Occupancy Time shall be less than 40 ms. Each such transmission sequence shall be followed by an Idle Period (no transmissions) of minimum 5 % of the Channel Occupancy Time with a minimum of 100 μs. After this, the procedure as in step 1 needs to be repeated.

4) The detection threshold shall be proportional to the transmit power of the transmitter: for a 20 dBm e.i.r.p. transmitter the detection threshold level (TL) shall be equal to or less than -70 dBm/MHz at the input to the receiver assuming a 0 dBi (receive) antenna assembly. This threshold level (TL) may be corrected for the (receive) antenna assembly gain (G); however, beamforming gain (Y) shall not be taken into account. For power levels less than 20 dBm e.i.r.p., the detection threshold level may be relaxed to:

$$TL = -70 \text{ dBm/MHz} + 10 \times \log_{10} (100 \text{ mW} / Pout) \text{ (Pout in mW e.i.r.p.)}$$

5) The equipment shall comply with the requirements defined in step 1 to step 4 of the present clause in the presence of an unwanted CW signal as defined in table 9.

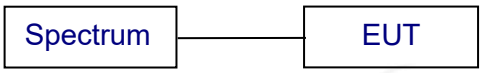
Table 9: Unwanted Signal parameters

Wanted signal mean power from companion device (dBm)	Unwanted signal frequency (MHz)	Unwanted CW signal power (dBm)
-30 (see note 2)	2 395 or 2 488,5 (see note 1)	-35 (see note 2)
NOTE 1: The highest frequency shall be used for testing operating channels within the range 2 400 MHz to 2 442 MHz, while the lowest frequency shall be used for testing operating channels within the range 2 442 MHz to 2 483,5 MHz. See clause 5.4.6.1.		
NOTE 2: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density in front of the UUT antenna.		

7.2. Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.6.

7.3. Test Setup



7.4. EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

7.5. Test Result

Not Applicable

This requirement do not apply for equipment with a maximum declared RF Output power level of less than 10 dBme.i.r.p. or for equipment when operating in a mode where the RF Output power is less than 10 dBme.i.r.p.

8. Occupied Channel Bandwidth

8.1. Applied Procedures / Limit

The Occupied Channel Bandwidth shall be within the band given in table 1.

Table 1: Service frequency bands

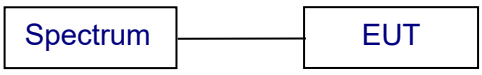
	Service frequency bands
Transmit	2 400 MHz to 2 483,5 MHz
Receive	2 400 MHz to 2 483,5 MHz

In addition, for non-adaptive non-FHSS equipment with e.i.r.p. greater than 10 dBm, the Occupied Channel Bandwidth shall be equal to or less than 20 MHz.

8.2. Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.7.

8.3. Test Setup



8.4. EUT Operation During Test

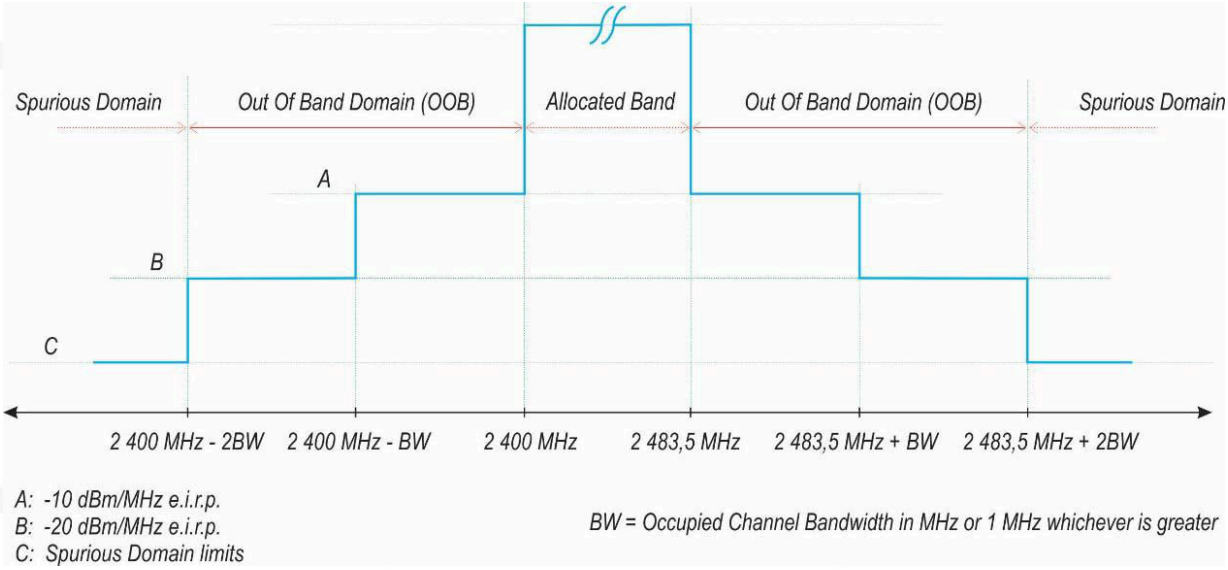
The EUT was programmed to be in continuously transmitting mode.

8.5. Test Result

See attached BLE

9. Transmitter Unwanted Emissions In The Out-of-band Domain

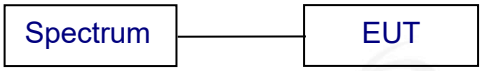
9.1. Applied Procedures / Limit



9.2. Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.8.

9.3. Test Setup



9.4. EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

9.5. Test Result

See attached BLE

10. Transmitter Unwanted Emissions In The Spurious Domain

10.1 Conducted Measurements

10.1.1 Applied Procedures / Limit

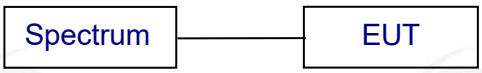
Transmitter limits for spurious emissions

Frequency Range	Maximum power e.r.p.(.≤1 GHz) e.i.r.p.(＞1 GHz)	Limit when Standby
30 MHz to 47 MHz	-36 dBm	100 KHz
47 MHz to 74 MHz	-54 dBm	100 KHz
74MHz to 87.5 MHz	-36 dBm	100 KHz
87.5 MHz to 118 MHz	-54 dBm	100 KHz
118 MHz to 174 MHz	-36 dBm	100 KHz
174 MHz to 230 MHz	-54 dBm	100 KHz
230 MHz to 470 MHz	-36 dBm	100 KHz
470 MHz to 694 MHz	-54 dBm	100 KHz
694 MHz to 1GHz	-36 dBm	100 KHz
1 GHz to 12.75GHz	-30 dBm	1 MHz

10.1.2 Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.9.

10.1.3 Test Setup



10.1.4 EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

10.1.5 Test Result

N/A

10.2 Radiated Measurements

10.2.1 Applied Procedures / Limit

Transmitter limits for spurious emissions

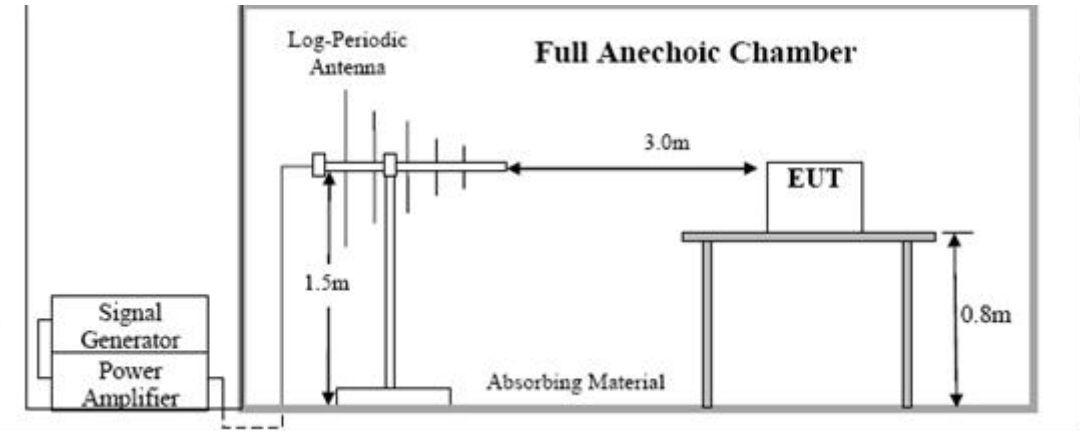
Frequency Range	Maximum power e.r.p.(.≤1 GHz) e.i.r.p.(＞1 GHz)	Limit when Standby
30 MHz to 47 MHz	-36 dBm	100 KHz
47 MHz to 74 MHz	-54 dBm	100 KHz
74MHz to 87.5 MHz	-36 dBm	100 KHz
87.5 MHz to 118 MHz	-54 dBm	100 KHz
118 MHz to 174 MHz	-36 dBm	100 KHz
174 MHz to 230 MHz	-54 dBm	100 KHz
230 MHz to 470 MHz	-36 dBm	100 KHz
470 MHz to 694 MHz	-54 dBm	100 KHz
694 MHz to 1GHz	-36 dBm	100 KHz
1 GHz to 12.75GHz	-30 dBm	1 MHz

10.2.2 Test Procedure

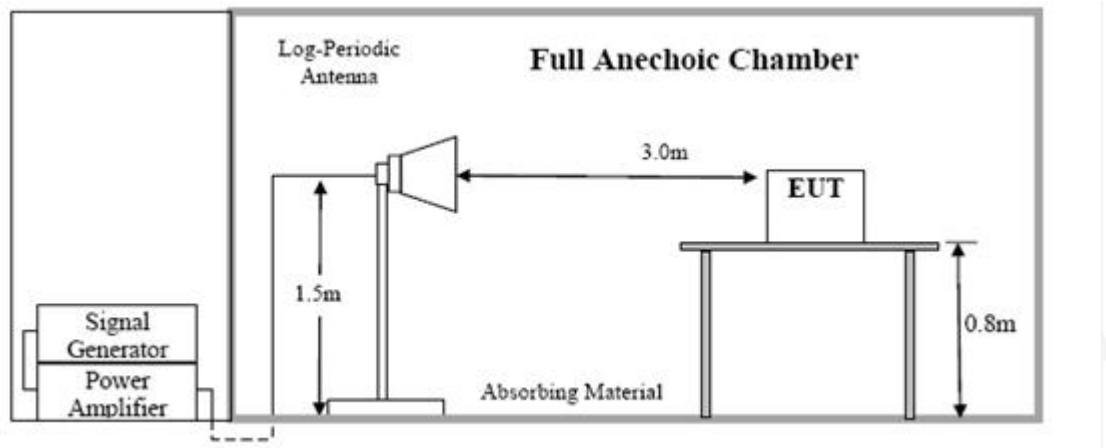
Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.9.

10.2.3 Test Setup

(A) Radiated Emission Test Set-Up Frequency(30~1000MHz)



(B) Radiated Emission Test Set-Up Frequency(1000~12750MHz)



10.2.4 EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

10.2.5 Test Result (30~1000MHz)

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2402MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
262.50	H	-66.67	-36	-30.67	PASS
324.32	H	-61.03	-54	-7.03	PASS
485.82	H	-64.40	-36	-28.40	PASS
547.14	H	-62.32	-54	-8.32	PASS
761.56	H	-67.50	-36	-31.50	PASS
853.30	H	-64.13	-54	-10.13	PASS
261.24	V	-65.11	-36	-29.11	PASS
325.35	V	-63.97	-54	-9.97	PASS
484.04	V	-68.75	-36	-32.75	PASS
531.20	V	-65.39	-54	-11.39	PASS
714.78	V	-65.79	-36	-29.79	PASS
850.91	V	-65.69	-36	-29.69	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. H represents horizontal, and V represents vertical.
3.We tested all modes and show the worst mode, BLE1M.

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2440MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
260.85	H	-66.64	-36	-30.42	PASS
317.84	H	-61.11	-54	-7.12	PASS
491.26	H	-64.28	-36	-28.37	PASS
566.58	H	-62.13	-54	-8.32	PASS
711.94	H	-67.31	-36	-31.38	PASS
813.93	H	-64.12	-54	-9.92	PASS
274.40	V	-65.03	-36	-29.17	PASS
332.01	V	-63.92	-54	-9.68	PASS
502.42	V	-68.63	-36	-32.87	PASS
566.31	V	-65.31	-54	-11.60	PASS
737.42	V	-65.70	-36	-29.65	PASS
833.79	V	-65.50	-54	-11.78	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. H represents horizontal, and V represents vertical.
3.We tested all modes and show the worst mode, BLE1M.

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2480MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
255.54	H	-66.62	-36	-30.62	PASS
366.39	H	-60.88	-54	-6.88	PASS
494.54	H	-64.24	-36	-28.24	PASS
584.20	H	-62.36	-54	-8.36	PASS
725.91	H	-67.33	-36	-31.33	PASS
832.99	H	-63.89	-54	-9.89	PASS
251.43	V	-65.28	-36	-29.28	PASS
351.99	V	-63.76	-54	-9.76	PASS
486.88	V	-68.81	-36	-32.81	PASS
582.25	V	-65.45	-54	-11.45	PASS
706.18	V	-65.71	-36	-29.71	PASS
827.26	V	-65.65	-54	-11.65	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. H represents horizontal, and V represents vertical.
3.We tested all modes and show the worst mode, BLE1M.

10.2.5 Test Result (1000~12750MHz)

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2402MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
1805.72	H	-55.15	-30	-25.15	PASS
2990.89	H	-53.73	-30	-23.73	PASS
3876.40	H	-56.79	-30	-26.79	PASS
4712.57	H	-50.11	-30	-20.11	PASS
5362.68	H	-53.47	-30	-23.47	PASS
5865.66	H	-57.31	-30	-27.31	PASS
1859.93	V	-53.97	-30	-23.97	PASS
3139.17	V	-56.02	-30	-26.02	PASS
3945.27	V	-53.17	-30	-23.17	PASS
4389.27	V	-55.91	-30	-25.91	PASS
4907.90	V	-51.17	-30	-21.17	PASS
6145.27	V	-53.34	-30	-23.34	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. H represents horizontal, and V represents vertical.
3.We tested all modes and show the worst mode, BLE1M.

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2440MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
1805.96	H	-55.06	-30	-25.06	PASS
2990.90	H	-53.82	-30	-23.82	PASS
3876.31	H	-56.82	-30	-26.82	PASS
4712.48	H	-49.94	-30	-19.94	PASS
5362.45	H	-53.33	-30	-23.33	PASS
5865.29	H	-57.12	-30	-27.12	PASS
1859.80	V	-53.91	-30	-23.91	PASS
3139.66	V	-55.90	-30	-25.90	PASS
3945.17	V	-53.10	-30	-23.10	PASS
4390.05	V	-55.89	-30	-25.89	PASS
4907.58	V	-51.37	-30	-21.37	PASS
6144.92	V	-53.29	-30	-23.29	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. H represents horizontal, and V represents vertical.
3.We tested all modes and show the worst mode, BLE1M.

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2480MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
1805.87	H	-55.02	-30	-25.02	PASS
2991.34	H	-53.77	-30	-23.77	PASS
3876.60	H	-56.93	-30	-26.93	PASS
4713.06	H	-50.04	-30	-20.04	PASS
5362.52	H	-53.40	-30	-23.40	PASS
5865.70	H	-57.26	-30	-27.26	PASS
1860.31	V	-53.84	-30	-23.84	PASS
3139.57	V	-55.98	-30	-25.98	PASS
3945.49	V	-53.14	-30	-23.14	PASS
4390.17	V	-56.01	-30	-26.01	PASS
4908.17	V	-51.15	-30	-21.15	PASS
6145.21	V	-53.36	-30	-23.36	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. H represents horizontal, and V represents vertical.
3.We tested all modes and show the worst mode, BLE1M.

11. Receiver Spurious Emissions

11.1Conducted Measurements

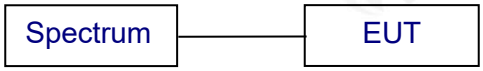
11.1.1 Applied Procedures / Limit

Frequency	Maximum power, e.r.p.	Measurement bandwidth
30 MHz to 1 GHz	-57 dBm	100 KHz
1 GHz to 12.75 GHz	-47 dBm	1 MHz

11.1.2 Test Procedure

Refer to ETSI EN 300 328 Sub-clause 4.3.1.11.3

11.1.3 Test Setup



11.1.4 EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

11.1.5 Test Result

See attached BLE

11.2 Radiated Measurements

11.2.1 Applied Procedures / Limit

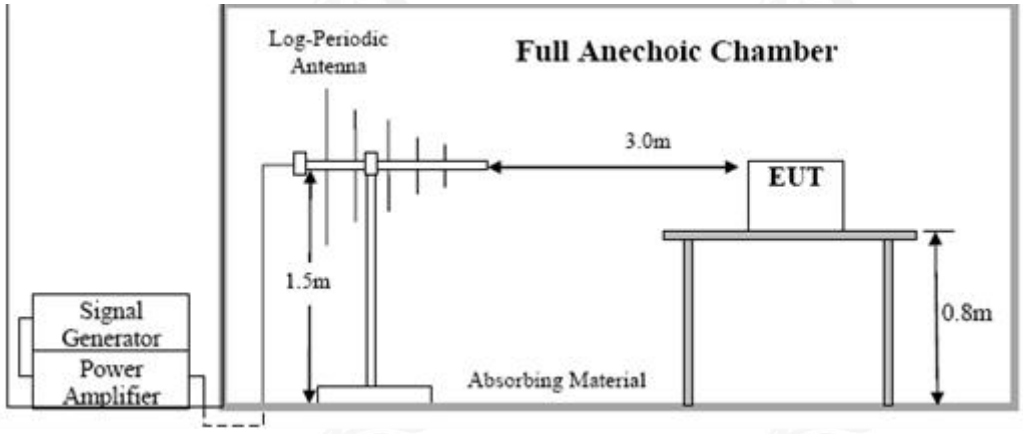
Frequency	Maximum power, e.r.p.	Measurement bandwidth
30 MHz to 1 GHz	-57 dBm	100 KHz
1 GHz to 12.75 GHz	-47 dBm	1 MHz

11.2.2 Test Procedure

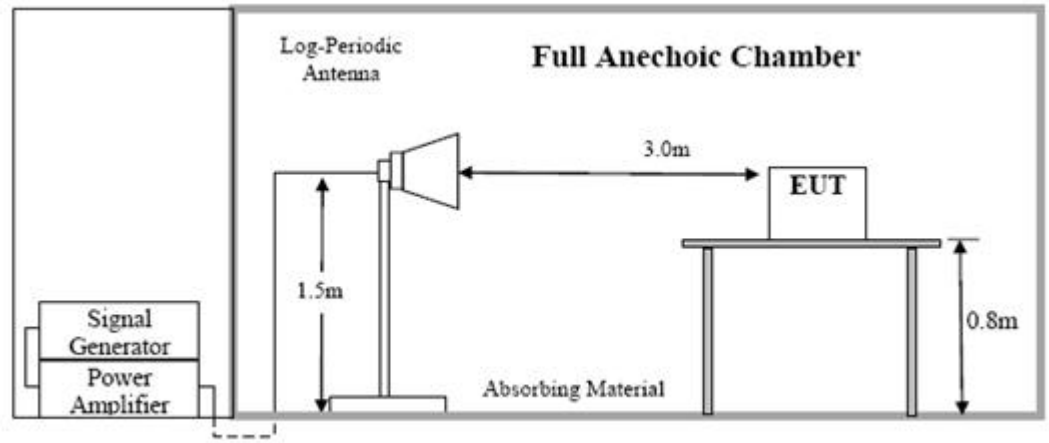
Refer to ETSI EN 300 328 Sub-clause 4.3.1.11.3

11.2.3 Test Setup

(B) Radiated Emission Test Set-Up Frequency(30~1000MHz)



(C) Radiated Emission Test Set-Up Frequency(1000~12750MHz)



11.2.4 EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

11.2.5 Test Result (30~1000MHz)

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2402MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
162.12	H	-84.99	-57.00	-27.99	PASS
265.90	H	-85.03	-57.00	-28.03	PASS
385.47	H	-86.45	-57.00	-29.45	PASS
484.59	H	-80.08	-57.00	-23.08	PASS
633.10	H	-74.49	-57.00	-17.49	PASS
787.13	H	-77.54	-57.00	-20.54	PASS
101.97	V	-86.53	-57.00	-29.53	PASS
253.76	V	-85.07	-57.00	-28.07	PASS
326.65	V	-86.22	-57.00	-29.22	PASS
574.79	V	-79.76	-57.00	-22.76	PASS
737.34	V	-74.52	-57.00	-17.52	PASS
994.36	V	-71.58	-57.00	-14.58	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. H represents horizontal, and V represents vertical.
3.We tested all modes and show the worst mode, BLE1M.

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2440MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
161.76	H	-69.44	-57.00	-12.44	PASS
266.05	H	-64.87	-57.00	-7.87	PASS
385.36	H	-67.82	-57.00	-10.82	PASS
484.52	H	-66.43	-57.00	-9.43	PASS
632.80	H	-67.21	-57.00	-10.21	PASS
786.62	H	-70.38	-57.00	-13.38	PASS
102.68	V	-68.63	-57.00	-11.63	PASS
253.45	V	-66.92	-57.00	-9.92	PASS
326.45	V	-68.50	-57.00	-11.50	PASS
574.48	V	-63.49	-57.00	-6.49	PASS
737.21	V	-68.78	-57.00	-11.78	PASS
994.72	V	-66.69	-57.00	-9.69	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. H represents horizontal, and V represents vertical.
3.We tested all modes and show the worst mode, BLE1M.

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2480MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
162.01	H	-69.32	-57.00	-12.32	PASS
265.65	H	-64.95	-57.00	-7.95	PASS
384.87	H	-67.65	-57.00	-10.65	PASS
484.52	H	-66.62	-57.00	-9.62	PASS
632.76	H	-67.12	-57.00	-10.12	PASS
786.73	H	-70.35	-57.00	-13.35	PASS
102.58	V	-68.44	-57.00	-11.44	PASS
253.76	V	-66.70	-57.00	-9.70	PASS
326.40	V	-68.45	-57.00	-11.45	PASS
575.05	V	-63.51	-57.00	-6.51	PASS
737.57	V	-68.51	-57.00	-11.51	PASS
994.26	V	-66.60	-57.00	-9.60	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. H represents horizontal, and V represents vertical.
3.We tested all modes and show the worst mode, BLE1M.

11.2.5 Test Result (1000~12750MHz)

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2402MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
1584.31	H	-75.05	-47.00	-28.05	PASS
3749.32	H	-78.61	-47.00	-31.61	PASS
2161.78	H	-74.45	-47.00	-27.45	PASS
3669.70	H	-69.72	-47.00	-22.72	PASS
4767.34	H	-69.05	-47.00	-22.05	PASS
6233.09	H	-67.97	-47.00	-20.97	PASS
1779.11	V	-76.01	-47.00	-29.01	PASS
1781.08	V	-82.83	-47.00	-35.83	PASS
2747.64	V	-73.44	-47.00	-26.44	PASS
3972.14	V	-70.89	-47.00	-23.89	PASS
5378.67	V	-75.06	-47.00	-28.06	PASS
7243.00	V	-76.28	-47.00	-29.28	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. H represents horizontal, and V represents vertical.
3.We tested all modes and show the worst mode, BLE1M.

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2440MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
1584.24	H	-75.08	-47.00	-28.08	PASS
3749.54	H	-78.69	-47.00	-31.69	PASS
2161.59	H	-74.46	-47.00	-27.46	PASS
3669.37	H	-69.77	-47.00	-22.77	PASS
4767.73	H	-69.21	-47.00	-22.21	PASS
6233.08	H	-67.94	-47.00	-20.94	PASS
1779.15	V	-76.05	-47.00	-29.05	PASS
1780.70	V	-82.93	-47.00	-35.93	PASS
2747.41	V	-73.43	-47.00	-26.43	PASS
3972.09	V	-70.94	-47.00	-23.94	PASS
5378.60	V	-75.13	-47.00	-28.13	PASS
7242.75	V	-76.32	-47.00	-29.32	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. H represents horizontal, and V represents vertical.
3.We tested all modes and show the worst mode, BLE1M.

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2480MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
1584.38	H	-74.83	-47.00	-27.83	PASS
3749.56	H	-78.59	-47.00	-31.59	PASS
2161.71	H	-74.38	-47.00	-27.38	PASS
3669.65	H	-69.71	-47.00	-22.71	PASS
4767.72	H	-68.96	-47.00	-21.96	PASS
6233.37	H	-68.00	-47.00	-21.00	PASS
1779.06	V	-75.81	-47.00	-28.81	PASS
1780.68	V	-82.79	-47.00	-35.79	PASS
2747.30	V	-73.53	-47.00	-26.53	PASS
3971.99	V	-71.04	-47.00	-24.04	PASS
5378.27	V	-75.11	-47.00	-28.11	PASS
7243.13	V	-76.17	-47.00	-29.17	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. H represents horizontal, and V represents vertical.
3.We tested all modes and show the worst mode, BLE1M.

12. Receiver Blocking

12.1. Applied Procedures / Limit

While maintaining the minimum performance criteria as defined in clause 5.4.11.2.1, the blocking levels at specified frequency offsets shall be equal to or greater than the limits defined for the applicable receiver category provided in table 14, table 15 or table 16.

The minimum performance criterion shall be a PER less than or equal to 10 %. The manufacturer may declare alternative performance criteria as long as that is appropriate for the intended use of the equipment.

Table 14: Receiver Blocking parameters for Receiver Category 1 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 4)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 4)	Type of blocking signal
(-133 dBm + 10 × $\log_{10}$(OCBW)) or -68 dBm whichever is less (see note 2)	2 380 2 504	-34	CW
(-139 dBm + 10 × $\log_{10}$(OCBW)) or -74 dBm whichever is less (see note 3)	2 300 2 330 2 360 2 524 2 584 2 674		

NOTE 1: OCBW is in Hz.
NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 26 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.
NOTE 3: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 20 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.
NOTE 4: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

Table 15: Receiver Blocking parameters receiver Category 2 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 3)	Type of blocking signal
(-139 dBm + 10 × $\log_{10}$(OCBW) + 10 dB) or (-74 dBm + 10 dB) whichever is less (see note 2)	2 380 2 504 2 300 2 584	-34	CW
NOTE 1: OCBW is in Hz. NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 26 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal. NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.			

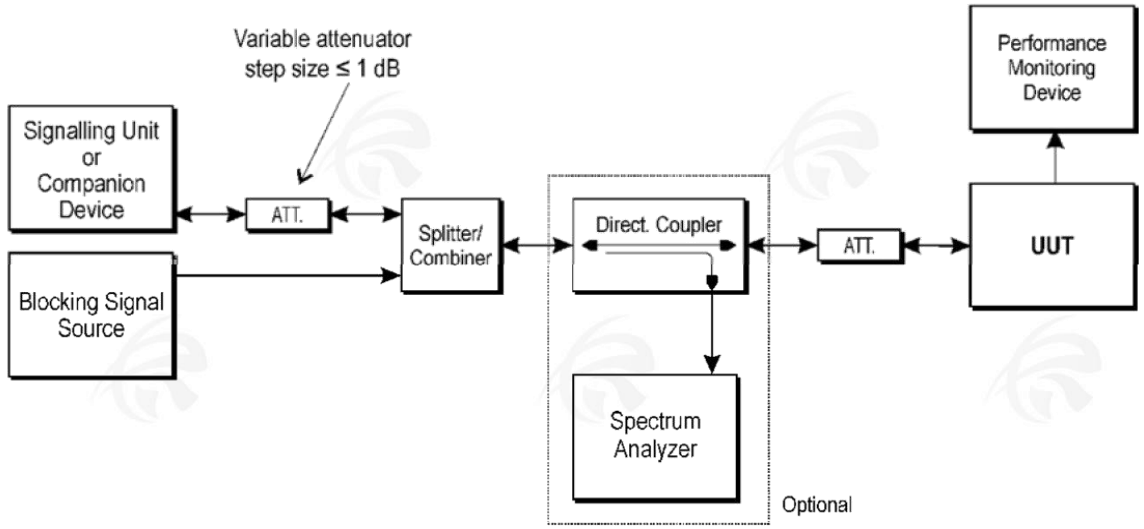
Table 16: Receiver Blocking parameters receiver Category 3 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 3)	Type of blocking signal
(-139 dBm + 10 × $\log_{10}$(OCBW) + 20 dB) or (-74 dBm + 20 dB) whichever is less (see note 2)	2 380 2 504 2 300 2 584	-34	CW
NOTE 1: OCBW is in Hz. NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 30 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal. NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.			

12.2. Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.11.

12.3. Test Setup



12.4. EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

12.5. Test Result

Channel 00@Result

Wanted signal mean power form companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm)	PER (%)	Limit (%)	Result
-64	2380	-34	0.22	10	Pass
-64	2300	-34	0.52	10	Pass

Channel 39@Result

Wanted signal mean power form companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm)	PER (%)	Limit (%)	Result
-64	2504	-34	0.32	10	Pass
-64	2584	-34	0.26	10	Pass

Note: EUT is Receiver Category 3 equipment.

13. Geo-location Capability

13.1. Definition& Requirements

Geo-location Capability is a feature of the equipment to determine its geographical location with the purpose to configure itself according to the regulatory requirements applicable at the geographical location where it operates.

The Geo-location Capability may be present in the equipment or in an external device (temporary) associated with theequipment operating at the same geographical location during the initial power up of the equipment. The geographicallocation may also be available in equipment already installed and operating at the same geographical location.

13.2. Test Results

This equipment does not support Geo-location.

APPENDIX I -- TEST PHOTOGRAPHS

RSE-L



RSE-H



APPENDIX II -- EUT PHOTOGRAPHS

Please refer to the EUT Photo

APPENDIX III -- STATEMENT

1. The equipment lists are traceable to the national reference standards.

2. The test report can not be partially copied unless prior written approval is issued from our lab.

3. The test report is invalid without the "special seal for inspection and testing".

4. The test report is invalid without the signature of the approver.

5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

※※※※※ **END OF REPORT** ※※※※※

RED-RADIO

ETSI EN 300 328 V2.2.2 (2019-07)

TEST REPORT

Client Name	:	Shenzhen Blue Vision Corporation Limited
Address	:	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.
Product Name	:	Smart Glasses
Test Model No.	:	Bomanlon BV-01
Report No.	:	CCTI260427107W3-R1
Issued Date	:	May 22, 2026

Prepared By	:	Shenzhen CCTI Technology Co., Ltd.
Address	:	A1-1, Building B1&B2, No.45 Gangtou Road, Bogang District, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Contact Info	:	Service Tel : 0086-400-188-9662
		CCTI E-mail : ccti@ccti-lab.com
		CCTI Web : www.ccti-lab.com

Scan code for report

TEST REPORT VERIFICATION

Applicant	:	Shenzhen Blue Vision Corporation Limited
Address	:	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.
Manufacturer	:	Shenzhen Blue Vision Corporation Limited
Address	:	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.
Product Name	:	Smart Glasses
Test Model No.	:	Bomanlon BV-01
Series No.	:	Bomanlon BV-02, Bomanlon BV-03, Bomanlon BV-04, Bomanlon BV-05, Bomanlon BV-06, Bomanlon BV-07, Bomanlon BV-08, Bomanlon BV-09, Bomanlon BV-10, Bomanlon BL-01, Bomanlon BL-02, Bomanlon BL-03, Bomanlon BL-04, Bomanlon BL-05, Bomanlon BL-06, Bomanlon BL-07, Bomanlon BL-08, Bomanlon BL-09, Bomanlon BL-10, Bomanlon BL-11, Bomanlon BL-12, Bomanlon BL-13, Bomanlon BL-14, Bomanlon BL-15, Bomanlon BL-16, Bomanlon BS-01, Bomanlon BS-02, Bomanlon BS-03, Bomanlon BS-04, Bomanlon BS-05, Bomanlon BS-06, Bomanlon BS-07, Bomanlon BS-08, Bomanlon BS-09, Bomanlon BS-10
Trade Mark	:	BOMANLON
Power Supply	:	Input: 5V⎓1A
Test Date	:	Apr. 30, 2026 to May 07, 2026
Test Standard(s)	:	**ETSI EN 300 328 V2.2.2 (2019-07)**
Test Result	:	**PASS**

This device described above has been tested by CCTI, and the test results show that the equipment under test (EUT) is in compliance with the 2014/53/EU RED Directive Art.3.2 requirements. The results shown in this test report refer only to the sample(s) tested unless other wise stated and the sample(s) are retained for 30 days only.

The document is issued by CCTI, may be altered or revised by CCTI, personal only, and shall be noted in the revision of the document. this document cannot be reproduced except in full with our prior written permission.

Producer By : Betty Liang (Betty Liang / Engineer) **Date** : May 22, 2026

Authorized Signer : (Corey Mao / Manager) **Date** : May 22, 2026

SHENZHEN CCTI TECHNOLOGY CO., LTD. APPROVED

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Revision History

Revision	Description	Issued Data	Remark
V0	Initial Test Report Release	Apr. 01, 2025	Corey Mao

1. TEST SUMMARY

Test procedures according to the technical standards:

ETSI EN 300 328 V2.2.2 (2019-07): Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU.

No.	Test Item	Clause No.	Result
Transmitter Parameters			
1	RF output power	4.3.2.2	P
2	Power Spectral Density	4.3.2.3	P
3	Duty Cycle,Tx-sequence, Tx-gap	4.3.2.4	N/A
4	Dwell time, min Freq.Occupation and Hopping sequence	4.3.1.4	N/A
5	Hopping Separation	4.3.1.5	N/A
6	Medium Utilisation	4.3.2.5	N/A
7	Adaptivity, Short Control Signalling Transmissions	4.3.2.6	N/A
8	Occupied Channel Bandwidth	4.3.2.7	P
9	Transmitter unwanted emissions in the out-of-band domain	4.3.2.8	P
10	Transmitter unwanted emissions in the spurious domain (conducted & radiated)	4.3.2.9	P
Receiver Parameters			
11	Receiver Spurious Emissions (Conducted & Radiated)	4.3.2.10	P
12	Receiver Blocking	4.3.2.11	P
13	Geo-location Capability	4.3.2.12	N/A

NOTE:

(1) P is an abbreviation for Pass, F is an abbreviation for Fail, N/A is an abbreviation for Not Applicable.

(2) Decision rules for the conclusion of this test report: decision by actual test data without considering measurement uncertainty.

1.1. Test Facility

Shenzhen CCTI Technology Co., Ltd.

A1-1, Building B1&B2, No.45 Gangtou Road, Bogang District, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

1.2. Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Item	Uncertainty
Uncertainty for Radiation Emission Test in 3m Chamber (30MHz to 1GHz)	2.74dB (Polarize: V)
	2.76dB (Polarize: H)
Uncertainty for Radiation Emission Test in 3m Chamber (1GHz to 18GHz)	4.29dB (Polarize: V)
	4.82dB (Polarize: H)
Uncertainty for Radio Frequency	48.24KHz
Uncertainty for Conducted RF Power	0.41dB
Uncertainty for Power Spectral Density	0.39 dB
Occupied-Bandwidth	968Hz
Conducted-Spurious Emission	1.26dB
(95% Confidence Levels, k=2)	

2. GENERAL INFORMATION

2.1. General Description of EUT

EUT	:	Smart Glasses
Trademark	:	BOMANLON
Model Number	:	Bomanlon BV-01
Serial Model	:	Bomanlon BV-02, Bomanlon BV-03, Bomanlon BV-04, Bomanlon BV-05, Bomanlon BV-06, Bomanlon BV-07, Bomanlon BV-08, Bomanlon BV-09, Bomanlon BV-10, Bomanlon BL-01, Bomanlon BL-02, Bomanlon BL-03, Bomanlon BL-04, Bomanlon BL-05, Bomanlon BL-06, Bomanlon BL-07, Bomanlon BL-08, Bomanlon BL-09, Bomanlon BL-10, Bomanlon BL-11, Bomanlon BL-12, Bomanlon BL-13, Bomanlon BL-14, Bomanlon BL-15, Bomanlon BL-16, Bomanlon BS-01, Bomanlon BS-02, Bomanlon BS-03, Bomanlon BS-04, Bomanlon BS-05, Bomanlon BS-06, Bomanlon BS-07, Bomanlon BS-08, Bomanlon BS-09, Bomanlon BS-10
Model Difference	:	The product is different for model number and outlook.
Power Supply	:	Input: 5V⎓1A
Radio Technology	:	2.4G WIFI
Operation frequency	:	2412MHz-2472MHz for IEEE 802.11 b, g, n/HT20
Channel No.	:	802.11b/802.11g/802.11n(HT20): 13CH
Modulation type	:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Modulation	:	DSSS/OFDM
Antenna Gain (Peak)	:	0dBi
Antenna Type	:	Internal Antenna
Hardware Version	:	V1.0
Software Version	:	V1.0
Intend use environment	:	Residential, commercial and light industrial environment

Remark:

(1) Bomanlon BV-01 was selected as the test model and the datas have been recorded in this report.

(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.2. Test Conditions and Channel

IEEE 802.11b/g/n/ax: Thirteen channels are provided to the EUT.

Channel List			
Channel	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442		

	Normal Test Conditions	**Extreme Test Conditions**
Temperature range	15°C - 35°C	-30°C ~ 70°C Note: (1)
Relative Humidity	20% - 75%	N/A
Pressure range	86-106kPa	86-106kPa
Supply Voltage	DC 5V	DC 4.5V-DC 5.5V Note: (2)

Mode	**Data rate (Mbps)**	**Channel**	**Frequency(MHz)**
IEEE 80 2.11b	1	Low: CH1	2412
	1	Middle: CH7	2442
	1	High: CH13	2472
IEEE 802.11g	6	Low: CH1	2412
	6	Middle: CH7	2442
	6	High: CH13	2472
IEEE 802.11n HT20	6.5	Low: CH1	2412
	6.5	Middle: CH7	2442
	6.5	High: CH13	2472

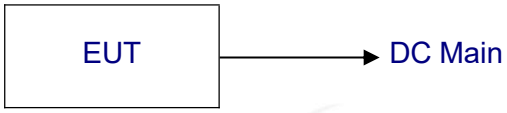
Note:

(1) The HT -30°C and LT 70°C was declarated by manufacturer, The EUT couldn't be operate normally with higher or lower temperature.

(2) The High Voltage DC 4.5V and Low Voltage DC 5.5V was declarated by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.

(3) The measurements are performed at the highest, middle, lowest available channels.

2.3. Description of Test Setup



2.4. Description Test Peripheral and EUT Peripheral

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Trade Mark	Model/Type No.	Series No.	Note
N/A	N/A	N/A	N/A	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
N/A	N/A	N/A	N/A	N/A

Note:

(1) The support equipment was authorized by Declaration of Confirmation.

(2) For detachable type I/O cable should be specified the length in cm in『Length』column.

(3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.5. Description of Test Equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last Cal.	Next Cal.
1	966 Chamber	Yiheng	9*6*6	ZJE-001	2025.07.12	2028.07.11
2	Spectrum Analyzer	Agilent	N9020A	ZJE-024	2025.07.12	2026.07.11
3	EMI Test Receiver	R&S	ESCI7	ZJE-003	2025.07.12	2026.07.11
4	Broadband antenna	Schwarzbeck	VULB 9163	ZJE-004	2025.07.12	2026.07.11
5	Horn antenna	Schwarzbeck	BBHA 9120D	ZJE-005	2025.07.12	2026.07.11
6	Loop antenna	Schwarzbeck	FMZB 1519 B	ZJE-015	2025.07.12	2026.07.11
7	Synthesizer	R&S	CMW500	ZJE-036	2025.07.12	2026.07.11
8	Vector Signal Generator	Agilent	N5182A	ZJE-037	2025.07.12	2026.07.11
9	Analog signal generator	Agilent	N5181A	ZJE-038	2025.07.12	2026.07.11
10	Power Supply	Agilent	E3632A	ZJE-039	2025.07.12	2026.07.11
11	Power meter	KEYSIGHT	E4419B	ZJE-028	2025.07.12	2026.07.11
12	RF Automatic Test System	TST	TSTRF562	ZJE-042	/	/
13	RSE Test Software	Frad	EZ-RE	ZJE-008	/	/

2.6. Information as Required

a) The type of modulation used by the equipment:

☐ FHSS
☒ non-FHSS

b) In case of FHSS :

☐ In case of non-Adaptive Frequency Hopping equipment:
The number of Hopping Frequencies:
☐ In case of Adaptive Frequency Hopping Equipment:
The maximum number of Hopping Frequencies:
The minimum number of Hopping Frequencies:
The Dwell Time:
The Minimum Channel Occupation Time:

c) Adaptive / non-adaptive Equipment:

☐ non-adaptive Equipment
☒ adaptive Equipment without the possibility to switch to a non-adaptive mode
☐ adaptive Equipment which can also operate in a non-adaptive mode

d) In case of adaptive Equipment:

The maximum Channel Occupancy Time implemented by the equipment: ms
☒ The equipment has implemented an LBT based DAA mechanism
☐ In case of equipment using modulation different from FHSS:
☐ The equipment is Frame Based equipment
☐ The equipment is Load Based equipment
☐ The equipment can switch dynamically between Frame Based and Load Based equipment
The CCA time implemented by the equipment: ..... µs
The value q as referred to in clause 4.3.2.5.2.2.2 .....
☒ The equipment has implemented an non-LBT based DAA mechanism
☐ The equipment can operate in more than one adaptive mode

e) In case of non-adaptive Equipment:

The maximum RF Output Power (e.i.r.p.): 8.55dBm
The maximum (corresponding) Duty Cycle: ……
Equipment with dynamic behaviour, that behaviour is described here. (e.g. the different combinations of duty cycle and corresponding power levels to be declared):

f) The worst case operational mode for each of the following tests:

☒ RF Output Power: 8.55dBm
☒ Power Spectral Density: 1.14dBm/MHz
☐ Duty cycle, Tx-Sequence, Tx-gap:
☐ Dwell time, Minimum Frequency Occupation & Hopping Sequence (only for FHSS equipment):
☐ Hopping Frequency Separation (only for FHSS equipment):
☐ Medium Utilization:

☐ Adaptivity & Receiver Blocking:
☒ Occupied Channel Bandwidth: 16.928MHz
☐ Transmitter unwanted emissions in the OOB domain:
☐ Transmitter unwanted emissions in the spurious domain:
☐ Receiver spurious emissions :

g) The different transmit operating modes (tick all that apply):

☒ Operating mode 1: Single Antenna Equipment
- ☒ Equipment with only one antenna
- ☐ Equipment with two diversity antennas but only one antenna active at any moment in time
- ☐ Smart Antenna Systems with two or more antennas, but operating in a (legacy) mode where only One antenna is used (es.g. IEEE 802.11™ [i.3] legacy mode in smart antenna systems)

☐ Operating mode 2: Smart Antenna Systems - Multiple Antennas without beam forming
- ☐ Single spatial stream / Standard throughput / (e.g. IEEE 802.11™ [i.3] legacy mode)
- ☐ High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 1
- ☐ High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 2

NOTE 1: Add more lines if more channel bandwidths are supported.

☐ Operating mode 3: Smart Antenna Systems - Multiple Antennas with beam forming
- ☐ Single spatial stream / Standard throughput (e.g. IEEE 802.11™ [i.3] legacy mode)
- ☐ High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 1
- ☐ High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 2

NOTE 2: Add more lines if more channel bandwidths are supported.

h) In case of Smart Antenna Systems:

The number of Receive chains: .....
The number of Transmit chains: .....
- ☐ symmetrical power distribution
- ☐ asymmetrical power distribution

In case of beam forming, the maximum (additional) beam forming gain: .....
NOTE: The additional beam forming gain does not include the basic gain of a single antenna.

i) Operating Frequency Range(s) of the equipment:

Operating Frequency Range 1: 2412 MHz to 2472 MHz
Operating Frequency Range 2:
NOTE: Add more lines if more Frequency Ranges are supported.

j) Nominal Channel Bandwidth(s):

☒ Occupied Channel Bandwidth 1: 16.928MHz
☐ Occupied Channel Bandwidth 2: .....
NOTE: Add more lines if more channel bandwidths are supported.

k) Type of Equipment (stand-alone, combined, plug-in radio device, etc.):

☒ Stand-alone
☐ Combined Equipment (Equipment where the radio part is fully integrated within another type of equipment)

☐ Plug-in radio device (Equipment intended for a variety of host systems)
☐ Other

l) The normal and the extreme operating conditions that apply to the equipment:

Operating temperature range: -30° C to 70° C
Operating voltage range: 5V ☐ AC ☒ DC
Details provided are for the: ☐ stand-alone equipment
☒ combined (or host) equipment
☐ test jig

m) The intended combination(s) of the radio equipment power settings and one or more antenna assemblies and their corresponding e.i.r.p. levels:

Antenna Type:
☒ Snap-on antenna
Antenna Gain: 0dBi
If applicable, additional beamforming gain (excluding basic antenna gain): ..... dBm
☐ Temporary RF connector provided
☐ No temporary RF connector provided
☐ Dedicated Antennas (equipment with antenna connector)
☐ Single power level with corresponding antenna(s)
☐ Multiple power settings and corresponding antenna(s)
Number of different Power Levels: .....
Power Level 1: ..... dBm
Power Level 2: ..... dBm
Power Level 3: ..... dBm
NOTE 1: Add more lines in case the equipment has more power levels.
NOTE 2: These power levels are conducted power levels (at antenna connector).

n) The nominal voltages of the stand-alone radio equipment or the nominal voltages of the combined (host) equipment or test jig in case of plug-in devices:

Details provided are for the: ☐ stand-alone equipment
☒ combined (or host) equipment
☐ test jig
Supply Voltage: ☐ AC mains State AC voltage:
☒ DC State DC voltage: 5V
In case of DC, indicate the type of power source
☐ Internal Power Supply
☒ External Power Supply
☐ Battery:
☐ Other: .....

o) Describe the test modes available which can facilitate testing:

The EUT can be into the Engineer mode for testing

p) The equipment type (e.g. Bluetooth®, IEEE 802.11™ [i.3], IEEE 802.15.4™ [i.4], proprietary, etc.):

IEEE 802.11b/IEEE 802.11g/IEEE 802.11n20

q) If applicable, the statistical analysis referred to in clause 5.4.1 q)

Not apply

r) If applicable, the statistical analysis referred to in clause 5.4.1 r)

Not apply

s) Geo-location Capability supported by the equipment:

☐ Yes

The geographical location determined by the equipment as defined in clause 4.3.1.13.2 or clause 4.3.2.12.2 is not accessible to the user

☒ No

t) Describe the minimum performance criteria that apply to the equipment (see clause 4.3.1.12.3 or clause 4.3.2.11.3):

The minimum performance criterion shall be a PER less than or equal to 10 %.

The intended use of the equipment should be in the normal operation without lost the communication link or no unintentionally operation occurs.

3. RF Output Power

3.1. Applied Procedures / Limit

The RF output power for non-FHSS equipment shall be equal to or less than 20 dBm.
NOTE: For Non-adaptive FHSS equipment, the manufacturer may have declared a reduced RF Output Power (see clause 5.4.1 m)) and associated Duty Cycle (see clause 5.4.1 e)) that will ensure that the equipment meets the requirement for the Medium Utilization (MU) factor further described in clause 4.3.2.5. This is verified by the conformance test referred to in clause 4.3.2.5.4.
For non-adaptive non-FHSS equipment, where the manufacturer has declared an RF output power of less than 20 dBm e.i.r.p., the RF output power shall be equal to or less than that declared value.
This limit shall apply for any combination of power level and intended antenna assembly.

3.2. Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2.

3.3. Test Setup



3.4. EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

3.5. Test Result

See attached WIFI2.4G

4. Duty Cycle,TX-sequence,TX-gap

4.1. Applied Procedures / Limit

Non-FHSS equipment shall comply with the following:

•The Duty Cycle shall be equal to or less than the maximum value declared by the manufacturer.

•The Tx-sequence time shall be equal to or less than 10 ms.

•The minimum Tx-gap time following a Tx-sequence shall be equal to the duration of that proceeding Tx-sequence with a minimum of 3,5 ms.

NOTE: For Non-adaptive FHSS equipment, the manufacturer may have declared a reduced RF Output Power (see clause 5.4.1 m)) and associated Duty Cycle (see clause 5.4.1 e)) that will ensure that the equipment meets the requirement for the Medium Utilization (MU) factor further described in clause 4.3.2.5. This is verified by the conformance test referred to in clause 4.3.2.5.4.

4.2. Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2.

4.3. Test Setup



4.4. EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

4.5. Test Result

Not applicable

5. Medium Utilisation (MU) factor

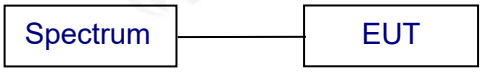
5.1. Applied Procedures / Limit

The maximum Medium Utilization factor for non-adaptive non-FHSS equipment shall be 10 %.

5.2. Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2.

5.3. Test Setup



5.4. EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

5.5. Test Result

Not Applicable

These requirements apply to non-adaptive equipment or to adaptive equipment when operating in a non-adaptive mode.

6. Power Spectral Density

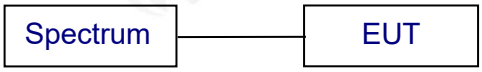
6.1. Applied Procedures / Limit

The maximum Power Spectral Density for non-FHSS equipment is 10 dBm per MHz.

6.2. Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.3.

6.3. Test Setup



6.4. EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

6.5. Test Result

See attached WIFI2.4G

7. Adaptivity (Adaptive Frequency Hopping)

7.1. Applied Procedures / Limit

Adaptive non-FHSS equipment using DAA shall comply with the following minimum set of requirements:

1) During normal operation, the equipment shall evaluate the presence of a signal on its current operating channel(s). If it is determined that a signal is present with a level above the detection threshold defined in step 5 that channel shall be marked as 'unavailable'.

2) The channel(s) shall remain unavailable for a minimum time equal to 1 s after which the channel may be considered again as an 'available' channel.

3) The total time during which an equipment has transmissions on a given channel without re-evaluating the availability of that channel, is defined as the Channel Occupancy Time. The Channel Occupancy Time shall be less than 40 ms. Each such transmission sequence shall be followed by an Idle Period (no transmissions) of minimum 5 % of the Channel Occupancy Time with a minimum of 100 μs. After this, the procedure as in step 1 needs to be repeated.

4) The detection threshold shall be proportional to the transmit power of the transmitter: for a 20 dBm e.i.r.p. transmitter the detection threshold level (TL) shall be equal to or less than -70 dBm/MHz at the input to the receiver assuming a 0 dBi (receive) antenna assembly. This threshold level (TL) may be corrected for the (receive) antenna assembly gain (G); however, beamforming gain (Y) shall not be taken into account. For power levels less than 20 dBm e.i.r.p., the detection threshold level may be relaxed to:

$$TL = -70 \text{ dBm/MHz} + 10 \times \log_{10} (100 \text{ mW} / \text{Pout}) \text{ (Pout in mW e.i.r.p.)}$$

5) The equipment shall comply with the requirements defined in step 1 to step 4 of the present clause in the presence of an unwanted CW signal as defined in table 9.

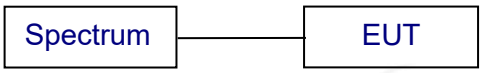
Table 9: Unwanted Signal parameters

Wanted signal mean power from companion device (dBm)	Unwanted signal frequency (MHz)	Unwanted CW signal power (dBm)
-30 (see note 2)	2 395 or 2 488,5 (see note 1)	-35 (see note 2)
NOTE 1: The highest frequency shall be used for testing operating channels within the range 2 400 MHz to 2 442 MHz, while the lowest frequency shall be used for testing operating channels within the range 2 442 MHz to 2 483,5 MHz. See clause 5.4.6.1.		
NOTE 2: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density in front of the UUT antenna.		

7.2. Test Procedure

Not applicable

7.3. Test Setup



7.4. EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

7.5. Test Result

Not applicable

8. Occupied Channel Bandwidth

8.1. Applied Procedures / Limit

The Occupied Channel Bandwidth shall be within the band given in table 1.

Table 1: Service frequency bands

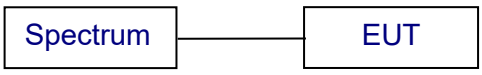
	Service frequency bands
Transmit	2 400 MHz to 2 483,5 MHz
Receive	2 400 MHz to 2 483,5 MHz

In addition, for non-adaptive non-FHSS equipment with e.i.r.p. greater than 10 dBm, the Occupied Channel Bandwidth shall be equal to or less than 20 MHz.

8.2. Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.7.

8.3. Test Setup



8.4. EUT Operation During Test

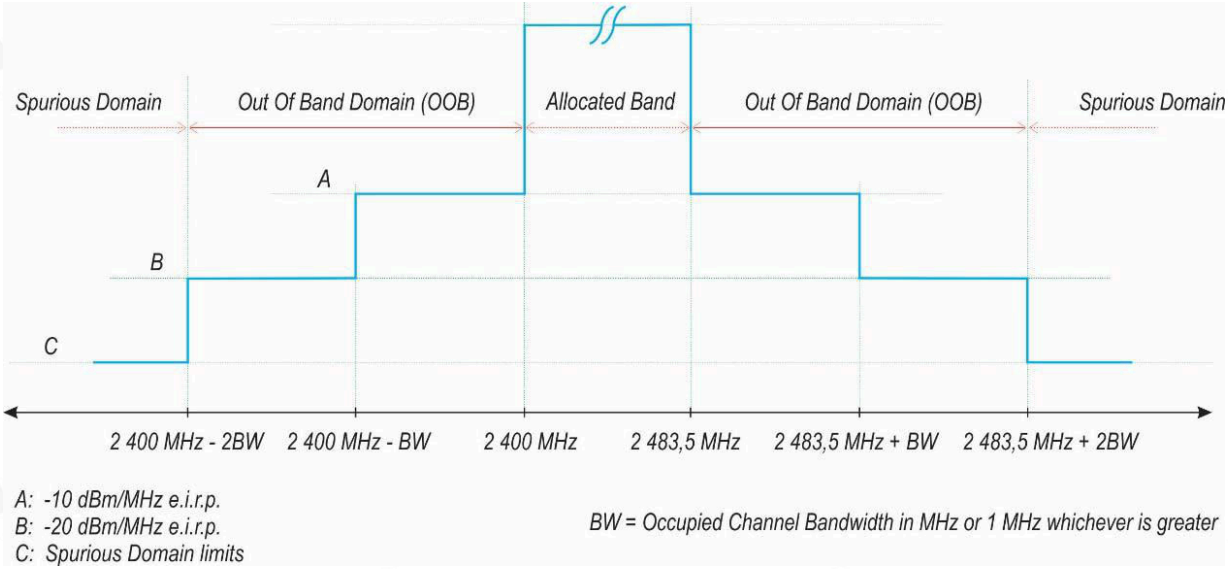
The EUT was programmed to be in continuously transmitting mode.

8.5. Test Result

See attached WIFI2.4G

9. Transmitter Unwanted Emissions In The Out-of-band Domain

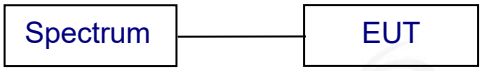
9.1. Applied Procedures / Limit



9.2. Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.8.

9.3. Test Setup



9.4. EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

9.5. Test Result

See attached WIFI2.4G

10. Transmitter Unwanted Emissions In The Spurious Domain

10.1 Conducted Measurements

10.1.1 Applied Procedures / Limit

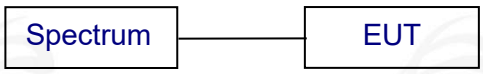
Transmitter limits for spurious emissions

Frequency Range	Maximum power e.r.p.(.≤1 GHz) e.i.r.p.(＞1 GHz)	Limit when Standby
30 MHz to 47 MHz	-36 dBm	100 KHz
47 MHz to 74 MHz	-54 dBm	100 KHz
74MHz to 87.5 MHz	-36 dBm	100 KHz
87.5 MHz to 118 MHz	-54 dBm	100 KHz
118 MHz to 174 MHz	-36 dBm	100 KHz
174 MHz to 230 MHz	-54 dBm	100 KHz
230 MHz to 470 MHz	-36 dBm	100 KHz
470 MHz to 694 MHz	-54 dBm	100 KHz
694 MHz to 1GHz	-36 dBm	100 KHz
1 GHz to 12.75GHz	-30 dBm	1 MHz

10.1.2 Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.9.

10.1.3 Test Setup



10.1.4 EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

10.1.5 Test Result

Not applicable

10.2 Radiated Measurements

10.2.1 Applied Procedures / Limit

Transmitter limits for spurious emissions

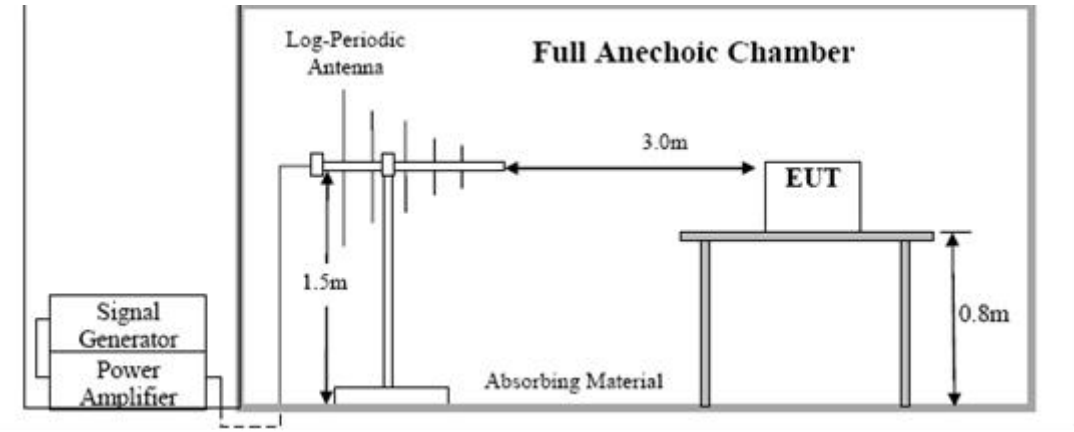
Frequency Range	Maximum power e.r.p.(.≤1 GHz) e.i.r.p.(＞1 GHz)	Limit when Standby
30 MHz to 47 MHz	-36 dBm	100 KHz
47 MHz to 74 MHz	-54 dBm	100 KHz
74MHz to 87.5 MHz	-36 dBm	100 KHz
87.5 MHz to 118 MHz	-54 dBm	100 KHz
118 MHz to 174 MHz	-36 dBm	100 KHz
174 MHz to 230 MHz	-54 dBm	100 KHz
230 MHz to 470 MHz	-36 dBm	100 KHz
470 MHz to 694 MHz	-54 dBm	100 KHz
694 MHz to 1GHz	-36 dBm	100 KHz
1 GHz to 12.75GHz	-30 dBm	1 MHz

10.2.2 Test Procedure

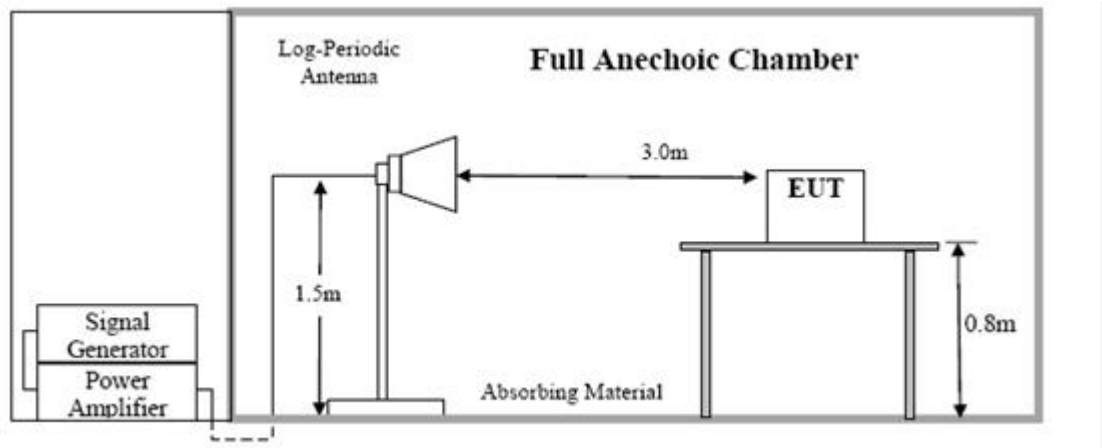
Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.9.

10.2.3 Test Setup

(A) Radiated Emission Test Set-Up Frequency(30~1000MHz)



(B) Radiated Emission Test Set-Up Frequency(1000~12750MHz)



10.2.4 EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

10.2.5 Test Result (30~1000MHz)

For the initial investigation on the highest, middle, lowest frequency in 30~1000MHz and 1000~12750MHz, no significant differences in spurious emissions were observed between these 4 modes. The worst test data was shown.

Remark: We test all modulation type, and recorded the worst case at 802.11b mode for wifi test.

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2412MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
139.04	H	-66.43	-36	-30.43	PASS
160.93	H	-61.07	-54	-7.07	PASS
357.31	H	-64.25	-36	-28.25	PASS
424.95	H	-62.08	-36	-26.08	PASS
566.94	H	-67.46	-54	-13.46	PASS
828.48	H	-64.11	-36	-28.11	PASS
126.41	V	-65.20	-36	-29.20	PASS
226.66	V	-63.79	-54	-9.79	PASS
452.13	V	-68.85	-36	-32.85	PASS
598.63	V	-65.49	-54	-11.49	PASS
631.86	V	-65.60	-54	-11.60	PASS
827.68	V	-65.73	-36	-29.73	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. H represents horizontal, and V represents vertical.
3.We tested all modes and show the worst mode, IEEE 802.11b.

EUT:	Smart Glasses	Model Name：	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2442MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
139.38	H	-66.67	-36	-30.67	PASS
160.91	H	-61.09	-54	-7.09	PASS
357.38	H	-64.28	-36	-28.28	PASS
424.90	H	-62.18	-36	-26.18	PASS
567.16	H	-67.49	-54	-13.49	PASS
828.23	H	-64.13	-36	-28.13	PASS
126.45	V	-65.18	-36	-29.18	PASS
226.71	V	-63.94	-54	-9.94	PASS
451.86	V	-68.61	-36	-32.61	PASS
598.57	V	-65.49	-54	-11.49	PASS
632.02	V	-65.76	-54	-11.76	PASS
827.41	V	-65.70	-36	-29.70	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. H represents horizontal, and V represents vertical.
3.We tested all modes and show the worst mode, IEEE 802.11b.

EUT:	Smart Glasses	Model Name：	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2472MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
139.46	H	-66.63	-36	-30.63	PASS
161.07	H	-60.99	-54	-6.99	PASS
356.99	H	-64.39	-36	-28.39	PASS
424.67	H	-62.18	-36	-26.18	PASS
566.79	H	-67.30	-54	-13.30	PASS
828.67	H	-63.95	-36	-27.95	PASS
126.86	V	-65.22	-36	-29.22	PASS
226.68	V	-63.83	-54	-9.83	PASS
451.97	V	-68.72	-36	-32.72	PASS
598.44	V	-65.43	-54	-11.43	PASS
631.46	V	-65.81	-54	-11.81	PASS
827.74	V	-65.78	-36	-29.78	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. H represents horizontal, and V represents vertical.
3.We tested all modes and show the worst mode, IEEE 802.11b.

10.2.5 Test Result (1000~12750MHz)

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2412MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
1806.05	H	-55.05	-30	-25.05	PASS
2991.23	H	-53.82	-30	-23.82	PASS
3876.65	H	-56.98	-30	-26.98	PASS
4712.79	H	-50.07	-30	-20.07	PASS
5362.42	H	-53.55	-30	-23.55	PASS
5865.68	H	-57.12	-30	-27.12	PASS
1860.33	V	-53.85	-30	-23.85	PASS
3139.75	V	-55.96	-30	-25.96	PASS
3945.45	V	-53.03	-30	-23.03	PASS
4390.12	V	-56.08	-30	-26.08	PASS
4908.22	V	-51.36	-30	-21.36	PASS
6145.27	V	-53.21	-30	-23.21	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. H represents horizontal, and V represents vertical.
3.We tested all modes and show the worst mode, IEEE 802.11b.

EUT:	Smart Glasses	Model Name：	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2442MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
1687.11	H	-55.27	-30	-25.27	PASS
4803.81	H	-53.71	-30	-23.71	PASS
7206.24	H	-57.01	-30	-27.01	PASS
9752.45	H	-49.86	-30	-19.86	PASS
10808.73	H	-53.52	-30	-23.52	PASS
12250.27	H	-57.29	-30	-27.29	PASS
1843.12	V	-53.82	-30	-23.82	PASS
4803.93	V	-56.06	-30	-26.06	PASS
6725.65	V	-53.03	-30	-23.03	PASS
7398.24	V	-56.00	-30	-26.00	PASS
9607.69	V	-51.31	-30	-21.31	PASS
11721.95	V	-53.19	-30	-23.19	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. H represents horizontal, and V represents vertical.
3.We tested all modes and show the worst mode, IEEE 802.11b.

EUT:	Smart Glasses	Model Name：	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2472MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
1846.02	H	-55.25	-30	-25.25	PASS
4823.91	H	-53.78	-30	-23.78	PASS
7236.24	H	-56.97	-30	-26.97	PASS
9792.33	H	-50.04	-30	-20.04	PASS
10853.70	H	-53.38	-30	-23.38	PASS
12301.15	H	-57.21	-30	-27.21	PASS
1432.17	V	-53.87	-30	-23.87	PASS
4824.26	V	-56.00	-30	-26.00	PASS
6753.25	V	-53.05	-30	-23.05	PASS
7429.20	V	-55.97	-30	-25.97	PASS
9647.59	V	-51.09	-30	-21.09	PASS
11770.45	V	-53.40	-30	-23.40	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. H represents horizontal, and V represents vertical.
3.We tested all modes and show the worst mode, IEEE 802.11b.

11. Receiver Spurious Emissions

11.1Conducted Measurements

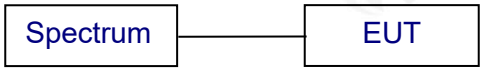
11.1.1 Applied Procedures / Limit

Frequency	Maximum power, e.r.p.	Measurement bandwidth
30 MHz to 1 GHz	-57 dBm	100 KHz
1 GHz to 12.75 GHz	-47 dBm	1 MHz

11.1.2 Test Procedure

Refer to ETSI EN 300 328 Sub-clause 4.3.1.11.3

11.1.3 Test Setup



11.1.4 EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

11.1.5 Test Result

Not applicable

11.2 Radiated Measurements

11.2.1 Applied Procedures / Limit

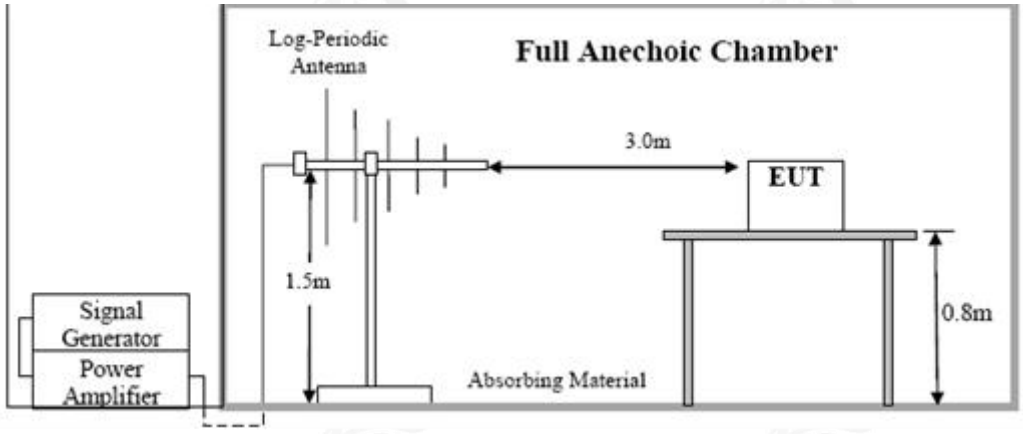
Frequency	Maximum power, e.r.p.	Measurement bandwidth
30 MHz to 1 GHz	-57 dBm	100 KHz
1 GHz to 12.75 GHz	-47 dBm	1 MHz

11.2.2 Test Procedure

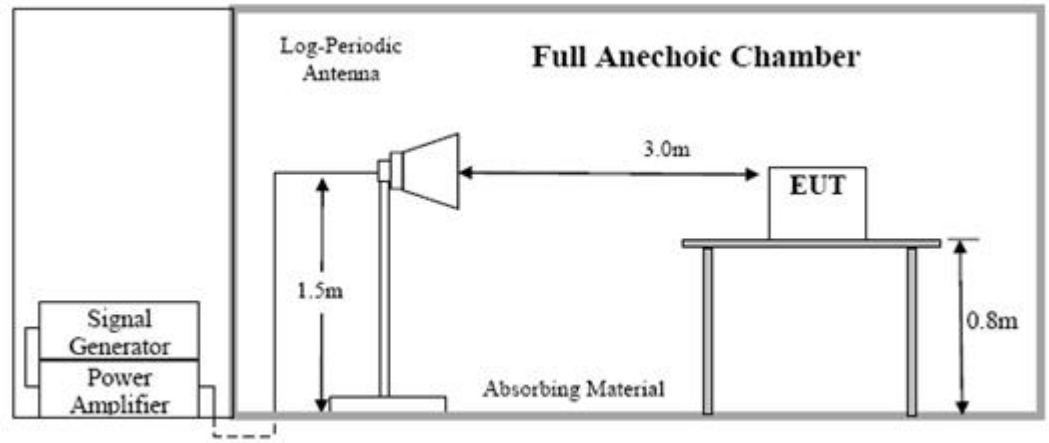
Refer to ETSI EN 300 328 Sub-clause 4.3.1.11.3

11.2.3 Test Setup

(B) Radiated Emission Test Set-Up Frequency(30~1000MHz)



(C) Radiated Emission Test Set-Up Frequency(1000~12750MHz)



11.2.4 EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

11.2.5 Test Result (30~1000MHz)

For the initial investigation on the highest, middle, lowest frequency in 30~1000MHz and 1000~12750MHz, no significant differences in spurious emissions were observed between these 4 modes. The worst test data was shown.
Remark: We test all modulation type, and recorded the worst case at 802.11b mode for wifi test.

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2412MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
32.15	H	-69.23	-57	-12.23	PASS
98.85	H	-64.80	-57	-7.80	PASS
136.09	H	-67.72	-57	-10.72	PASS
332.17	H	-66.57	-57	-9.57	PASS
566.69	H	-67.35	-57	-10.35	PASS
629.38	H	-70.31	-57	-13.31	PASS
32.40	V	-68.44	-57	-11.44	PASS
98.12	V	-66.84	-57	-9.84	PASS
136.61	V	-68.58	-57	-11.58	PASS
330.91	V	-63.67	-57	-6.67	PASS
729.92	V	-68.76	-57	-11.76	PASS
988.96	V	-66.65	-57	-9.65	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. H represents horizontal, and V represents vertical.
3.We tested all modes and show the worst mode, IEEE 802.11b.

EUT:	Smart Glasses	Model Name：	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2442MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
32.32	H	-69.29	-57	-12.29	PASS
98.84	H	-64.90	-57	-7.90	PASS
136.45	H	-67.85	-57	-10.85	PASS
332.31	H	-66.42	-57	-9.42	PASS
566.65	H	-67.29	-57	-10.29	PASS
629.33	H	-70.17	-57	-13.17	PASS
32.71	V	-68.39	-57	-11.39	PASS
98.21	V	-66.73	-57	-9.73	PASS
136.28	V	-68.34	-57	-11.34	PASS
330.84	V	-63.59	-57	-6.59	PASS
729.73	V	-68.63	-57	-11.63	PASS
989.07	V	-66.86	-57	-9.86	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. H represents horizontal, and V represents vertical.
3.We tested all modes and show the worst mode, IEEE 802.11b.

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2472MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
32.21	H	-69.31	-57	-12.31	PASS
98.63	H	-64.82	-57	-7.82	PASS
136.18	H	-67.69	-57	-10.69	PASS
332.42	H	-66.62	-57	-9.62	PASS
566.57	H	-67.21	-57	-10.21	PASS
629.32	H	-70.21	-57	-13.21	PASS
32.61	V	-68.43	-57	-11.43	PASS
98.36	V	-66.93	-57	-9.93	PASS
136.78	V	-68.33	-57	-11.33	PASS
330.81	V	-63.55	-57	-6.55	PASS
730.04	V	-68.64	-57	-11.64	PASS
988.71	V	-66.62	-57	-9.62	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. H represents horizontal, and V represents vertical.
3.We tested all modes and show the worst mode, IEEE 802.11b.

11.2.5 Test Result (1000~12750MHz)

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2412MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
1652.31	H	-69.43	-47	-12.43	PASS
1998.53	H	-64.95	-47	-7.95	PASS
2336.31	H	-67.88	-47	-10.88	PASS
3332.36	H	-66.39	-47	-9.39	PASS
4566.31	H	-67.19	-47	-10.19	PASS
5628.97	H	-70.22	-47	-13.22	PASS
1332.86	V	-68.39	-47	-11.39	PASS
1998.06	V	-66.69	-47	-9.69	PASS
2336.97	V	-68.49	-47	-11.49	PASS
3331.32	V	-63.41	-47	-6.41	PASS
4730.05	V	-68.68	-47	-11.68	PASS
5688.70	V	-66.85	-47	-9.85	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. H represents horizontal, and V represents vertical.
3.We tested all modes and show the worst mode, IEEE 802.11b.

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2442MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
1652.42	H	-74.93	-47.00	-27.93	PASS
1998.70	H	-78.51	-47.00	-31.51	PASS
2336.01	H	-74.31	-47.00	-27.31	PASS
3332.40	H	-69.94	-47.00	-22.94	PASS
4566.79	H	-69.09	-47.00	-22.09	PASS
5629.04	H	-68.02	-47.00	-21.02	PASS
1332.59	V	-75.78	-47.00	-28.78	PASS
1998.02	V	-82.96	-47.00	-35.96	PASS
2337.10	V	-73.65	-47.00	-26.65	PASS
3331.48	V	-70.90	-47.00	-23.90	PASS
4729.92	V	-75.08	-47.00	-28.08	PASS
5689.03	V	-76.32	-47.00	-29.32	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. H represents horizontal, and V represents vertical.
3.We tested all modes and show the worst mode, IEEE 802.11b.

EUT:	Smart Glasses	Model Name:	Bomanlon BV-01
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date:	2026-05-06
Test Mode:	2472MHz		
Test Power:	DC 5V		

Frequency (MHz)	Ant H / V	Measured (dBm)	Limits (dBm)	Margins	Note
1651.89	H	-74.86	-47	-27.86	PASS
1998.52	H	-78.70	-47	-31.70	PASS
2336.60	H	-74.44	-47	-27.44	PASS
3332.57	H	-69.93	-47	-22.93	PASS
4566.13	H	-68.95	-47	-21.95	PASS
5629.16	H	-67.91	-47	-20.91	PASS
1333.04	V	-75.80	-47	-28.80	PASS
1998.31	V	-82.97	-47	-35.97	PASS
2336.68	V	-73.58	-47	-26.58	PASS
3331.34	V	-70.96	-47	-23.96	PASS
4730.16	V	-75.13	-47	-28.13	PASS
5688.57	V	-76.29	-47	-29.29	PASS

Note:
1. Cable loss and antenna gain was combined in the calculated result.
2. H represents horizontal, and V represents vertical.
3.We tested all modes and show the worst mode, IEEE 802.11b.

12. Receiver Blocking

12.1. Applied Procedures / Limit

While maintaining the minimum performance criteria as defined in clause 5.4.11.2.1, the blocking levels at specified frequency offsets shall be equal to or greater than the limits defined for the applicable receiver category provided in table 14, table 15 or table 16.

The minimum performance criterion shall be a PER less than or equal to 10 %. The manufacturer may declare alternative performance criteria as long as that is appropriate for the intended use of the equipment.

Table 14: Receiver Blocking parameters for Receiver Category 1 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 4)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 4)	Type of blocking signal
(-133 dBm + 10 × $\log_{10}$(OCBW)) or -68 dBm whichever is less (see note 2)	2 380 2 504	-34	CW
(-139 dBm + 10 × $\log_{10}$(OCBW)) or -74 dBm whichever is less (see note 3)	2 300 2 330 2 360 2 524 2 584 2 674		
NOTE 1: OCBW is in Hz. NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 26 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal. NOTE 3: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 20 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal. NOTE 4: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.			

Table 15: Receiver Blocking parameters receiver Category 2 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 3)	Type of blocking signal
(-139 dBm + 10 × $\log_{10}$(OCBW) + 10 dB) or (-74 dBm + 10 dB) whichever is less (see note 2)	2 380 2 504 2 300 2 584	-34	CW
NOTE 1: OCBW is in Hz. NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 26 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal. NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.			

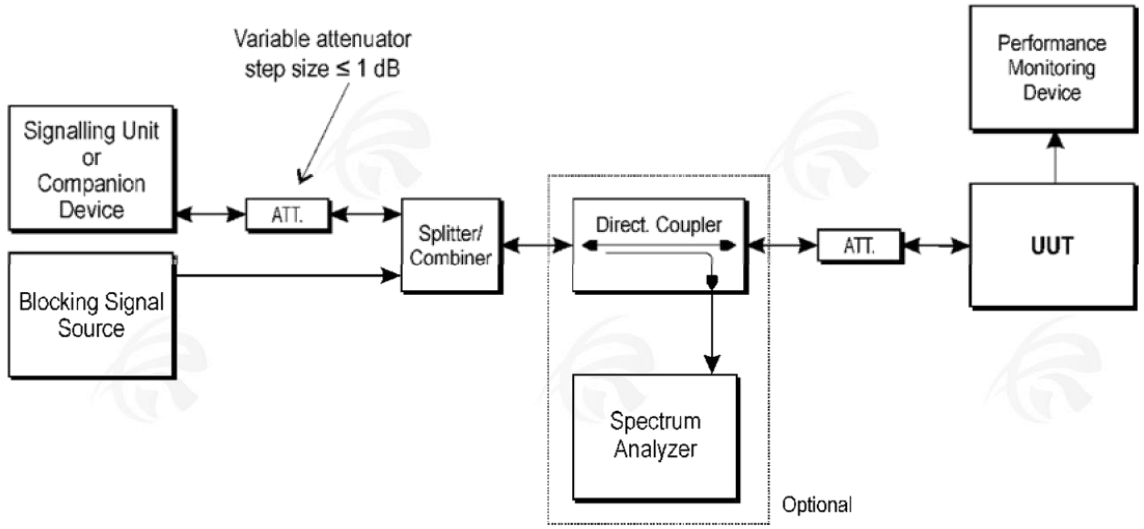
Table 16: Receiver Blocking parameters receiver Category 3 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 3)	Type of blocking signal
(-139 dBm + 10 × $\log_{10}$(OCBW) + 20 dB) or (-74 dBm + 20 dB) whichever is less (see note 2)	2 380 2 504 2 300 2 584	-34	CW
NOTE 1: OCBW is in Hz. NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 30 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal. NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.			

12.2. Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.11.

Test Setup



12.3. EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

12.4. Test Result

Record 802.11b. 1mbps for this test item

Channel 1

Wanted signal mean power form companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm)	PER (%)	Limit (%)	Result
-68	2380	-34	2.78	10	Pass
-74	2300	-34	2.72	10	Pass
-74	2330	-34	2.73	10	Pass
-74	2360	-34	1.51	10	Pass

Channel 13

Wanted signal mean power form companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm)	PER (%)	Limit (%)	Result
-68	2504	-34	2.63	10	Pass
-74	2524	-34	2.65	10	Pass
-74	2584	-34	1.48	10	Pass
-74	2674	-34	1.11	10	Pass

Record 802.11g. 6mbps for this test item

Channel 1

Wanted signal mean power form companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm)	PER (%)	Limit (%)	Result
-68	2380	-34	2.75	10	Pass
-74	2300	-34	2.34	10	Pass
-74	2330	-34	2.31	10	Pass
-74	2360	-34	1.34	10	Pass

Channel 13

Wanted signal mean power form companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm)	PER (%)	Limit (%)	Result
-68	2504	-34	0.08	10	Pass
-74	2524	-34	0.01	10	Pass
-74	2584	-34	0.15	10	Pass
-74	2674	-34	-0.20	10	Pass

Record 802.11n20. 6.5mbps for this test item

Channel 01

Wanted signal mean power form companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm)	PER (%)	Limit (%)	Result
-68	2380	-34	0.95	10	Pass
-74	2300	-34	0.42	10	Pass
-74	2330	-34	0.90	10	Pass
-74	2360	-34	0.09	10	Pass

Channel 13

Wanted signal mean power form companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm)	PER (%)	Limit (%)	Result
-68	2504	-34	0.03	10	Pass
-74	2524	-34	0.40	10	Pass
-74	2584	-34	-0.09	10	Pass
-74	2674	-34	0.17	10	Pass

13. Geo-location Capability

13.1. Definition& Requirements

Geo-location Capability is a feature of the equipment to determine its geographical location with the purpose to configure itself according to the regulatory requirements applicable at the geographical location where it operates.

The Geo-location Capability may be present in the equipment or in an external device (temporary) associated with theequipment operating at the same geographical location during the initial power up of the equipment. The geographicallocation may also be available in equipment already installed and operating at the same geographical location.

13.2. Test Results

This equipment does not support Geo-location.

APPENDIX I -- TEST PHOTOGRAPHS

RSE-L



RSE-H



APPENDIX II -- EUT PHOTOGRAPHS

Please refer to the EUT Photo

APPENDIX II -- STATEMENT

1. The equipment lists are traceable to the national reference standards.

2. The test report can not be partially copied unless prior written approval is issued from our lab.

3. The test report is invalid without the "special seal for inspection and testing".

4. The test report is invalid without the signature of the approver.

5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

※※※※※ **END OF REPORT** ※※※※※

EUT Photo

EUT Photo 1



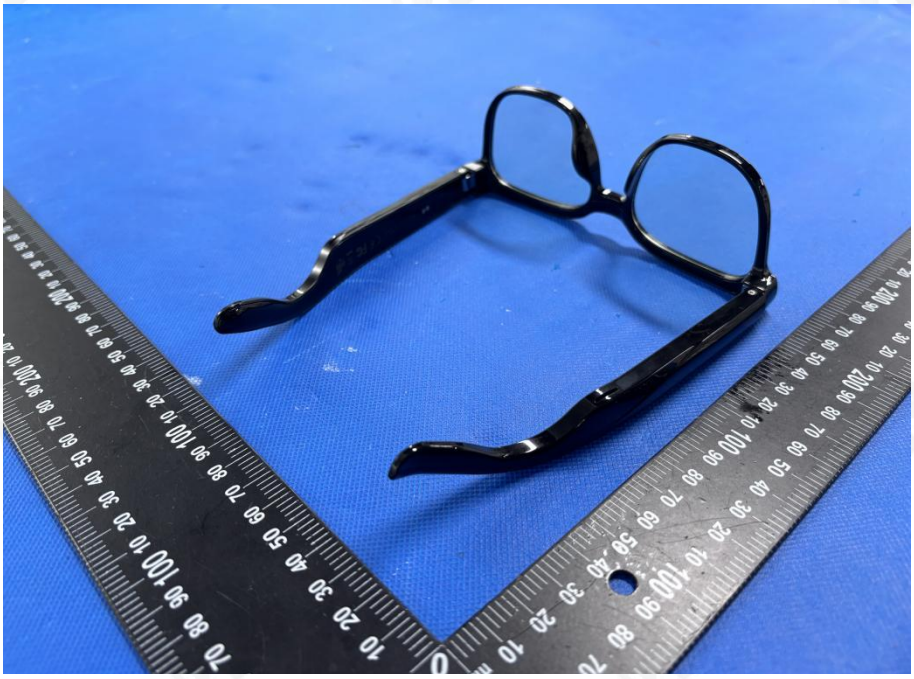
EUT Photo 2



EUT Photo 3



EUT Photo 4



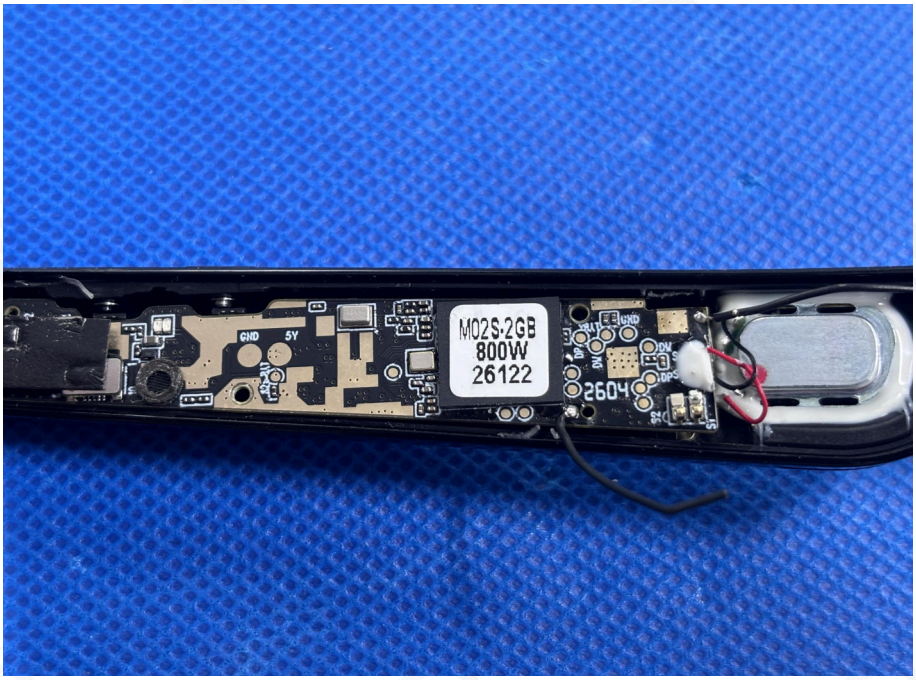
EUT Photo 5



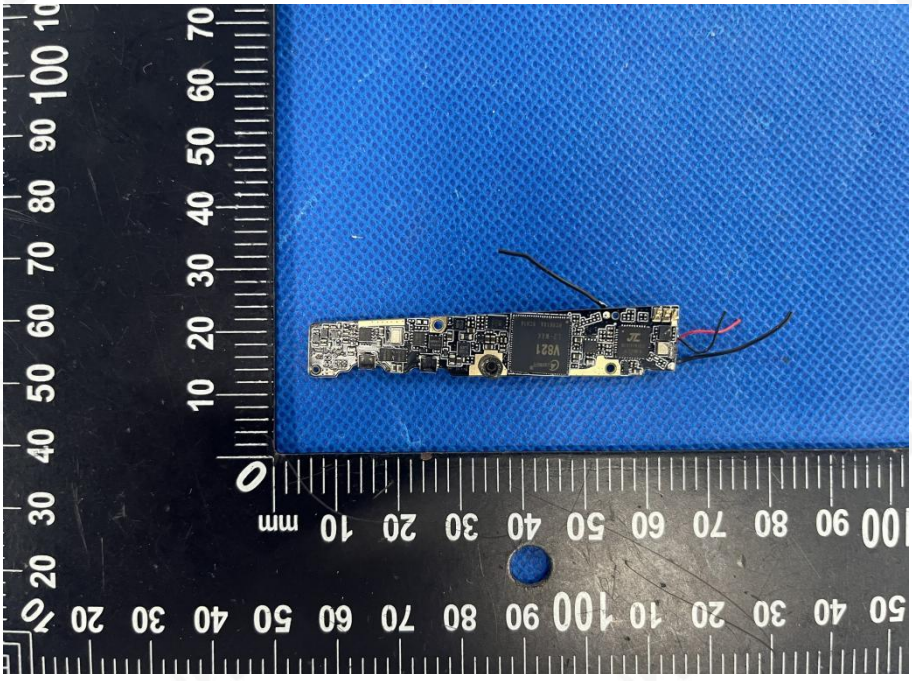
EUT Photo 6



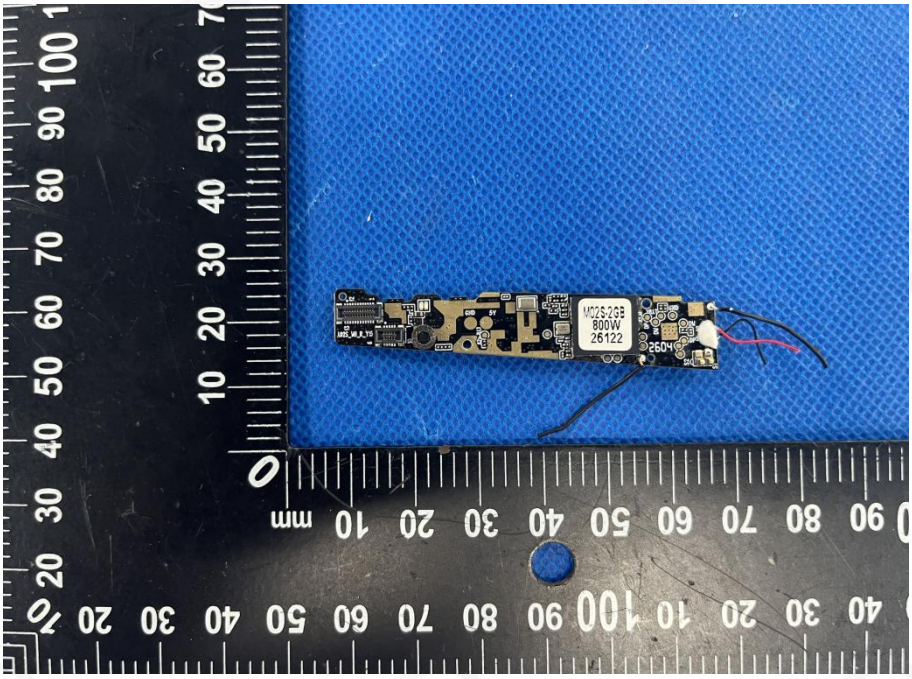
EUT Photo 7



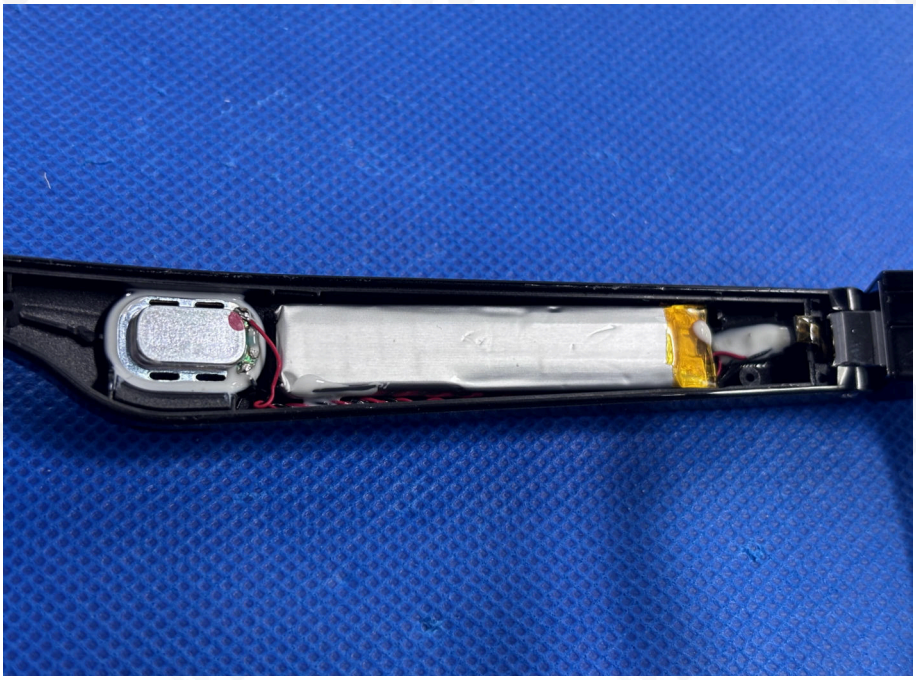
EUT Photo 8



EUT Photo 9



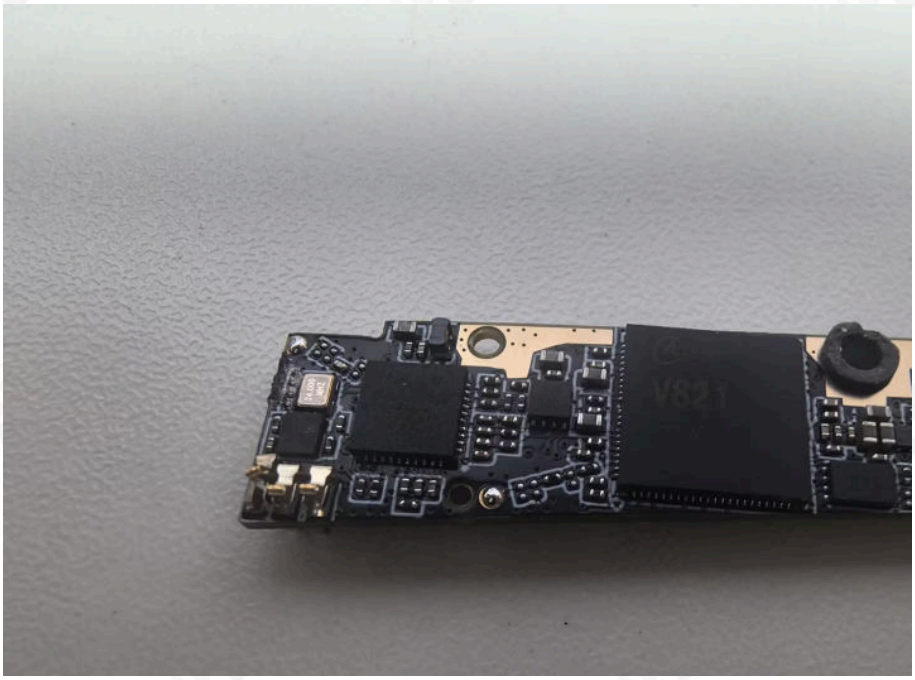
EUT Photo 10



EUT Photo 11



EUT Photo 12



CCTI TESTING

Test Report

Scan code for report

Applicant	:	Shenzhen Blue Vision Corporation Limited
Address	:	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.

The submitted sample and sample information was/were submitted and identified by/on the behalf of the client

Sample name	:	Smart Glasses
Testing type /model	:	Bomanlon BV-01
Additional type /model	:	Bomanlon BV-02,Bomanlon BV-03,Bomanlon BV-04,Bomanlon BV-05, Bomanlon BV-06,Bomanlon BV-07,Bomanlon BV-08,Bomanlon BV-09, Bomanlon BV-10,Bomanlon BL-01,Bomanlon BL-02,Bomanlon BL-03, Bomanlon BL-04,Bomanlon BL-05,Bomanlon BL-06,Bomanlon BL-07, Bomanlon BL-08,Bomanlon BL-09,Bomanlon BL-10,Bomanlon BL-11, Bomanlon BL-12,Bomanlon BL-13,Bomanlon BL-14,Bomanlon BL-15, Bomanlon BL-16,Bomanlon BS-01,Bomanlon BS-02,Bomanlon BS-03, Bomanlon BS-04,Bomanlon BS-05,Bomanlon BS-06,Bomanlon BS-07, Bomanlon BS-08,Bomanlon BS-09,Bomanlon BS-10
Trademark	:	BOMANLON
Manufacturer name	:	Shenzhen Blue Vision Corporation Limited
Address	:	509B Building B, Zhantao Technology Building, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.
Sample received date	:	Apr. 24, 2026
Testing period	:	Apr. 24, 2026 to May. 07, 2026
Test requested	:	As specified by client, to test the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyl(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Diisobutyl phthalate (DIBP), Dibutyl phthalate(DBP), Benzyl butyl phthalate(BBP), Di-2-ethylhexyl phthalate(DEHP) in the submitted sample in accordance with the RoHS Directive 2011/65/EU and amendment Commission Delegated Directive (EU) 2015/863 with effective from 22 July 2019.
Test Method	:	Please refer to the following page(s)
Test Result(s)	:	Please refer to the following page(s)
Conclusion	:	The test results comply with the limits of RoHS 2.0 Directive (EU) 2015/863 and (EU)2017/2102 amending Annex II to Directive 2011/65/EU.

******FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)******

Producer By : Betty Liang

(Betty Liang / Engineer)

Date: May. 07, 2026

Authorized Signer :

(Corey Mao / Manager)

Date: May. 07, 2026

SHENZHEN CCTI TECHNOLOGY CO., LTD. APPROVED

Test Method:

A. Screening test by XRF spectroscopy

XRF screening limits in mg/kg for regulated elements according to IEC 62321-3-1:2013.

Element	Limit of IEC 62321-3-1:2013. Unit (mg/kg)		MDL	
	Polymers and Metals	Composite Material	Polymers	Other material
Pb	BL≤(700-3σ) <X <(1300+3σ) ≤OL	BL≤(500-3σ)<X <(1500+3σ) ≤OL	10 mg/kg	50 mg/kg
Cd	BL≤(70-3σ)<X <(130+3σ) ≤OL	LOD≤(50-3σ)<X <(150+3σ) ≤OL	10 mg/kg	50 mg/kg
Hg	BL≤(700-3σ)<X <(1300+3σ) ≤OL	BL≤(500-3σ)<X <(1500+3σ) ≤OL	10 mg/kg	50 mg/kg
Cr	BL≤(700-3σ)< X	BL≤(500-3σ)< X	10 mg/kg	50 mg/kg
Br	BL≤(300-3σ)< X	BL≤(250-3σ)< X	10 mg/kg	50 mg/kg

Note:

-BL = Under the XRF screening limit

-OL = Further chemical test will be conducted while result is above the screening limit

-X= The symbol “X” marks the region where further investigation is necessary

-3σ= The reproducibility of analytical instruments

-LOD= Detection limit

B. Chemical Test

Test Item	Test Method	Test Equipment	MDL	Limit
Lead (Pb)	IEC 62321-5:2013	ICP-OES	2 mg/kg	1000 mg/kg
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	2 mg/kg	100 mg/kg
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg	1000 mg/kg
Hexavalent Chromium Cr (VI) (Metal)	IEC 62321-7-1:2015	UV-VIS	0.1 μg/cm^2	0.13 μg/cm^2
Hexavalent Chromium Cr (VI) (Nonmetal)	IEC 62321-7-2:2017	UV-VIS	8 mg/kg	1000 mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	5 mg/kg	1000 mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS	5 mg/kg	1000 mg/kg
Phthalates （DBP, BBP, DEHP, DIBP）	IEC 62321-8:2017	GC-MS	50mg/kg	1000 mg/kg

Test Result(s):

Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion
1	Black plastic casing	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
2	Black plastic frame	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
3	Transparent lenses	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
4	Metal electrical interface	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	/	/	
5	Magnet	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	/	/	
6	Speaker	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
7	White glue	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	

Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion
8	Red wire	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
9	Black wire	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
10	PCB	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
11	Tin	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
12	IC	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	/	/	
13	Chip Capacitor	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
14	Chip Resistor	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	

Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion
15	Module	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
16	Black sponge adhesive	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	
17	LED module	Pb	BL	/	PASS
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))	BL	/	
		Br(PBBs&PBDEs)	BL	/	

Tested Item(s)	Result Unit (mg/kg)					Acceptable Limit Unit (mg/kg)
	1	2	3	4	5	
Di-isobutyl phthalate(DIBP) CAS #:84-69-5	N.D.	N.D.	N.D.	/	/	1000
Dibutyl phthalate(DBP) CAS #:84-74-2	N.D.	N.D.	N.D.	/	/	1000
Benzylbutyl phthalate(BBP) CAS #:85-68-7	N.D.	N.D.	N.D.	/	/	1000
Di-2-ethylhexyl phthalate(DEHP) CAS #:117-81-7	N.D.	N.D.	N.D.	/	/	1000

Tested Item(s)	Result Unit (mg/kg)						Acceptable Limit Unit (mg/kg)
	6	7	8	9	10	11	
Di-isobutyl phthalate(DIBP) CAS #:84-69-5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate(DBP) CAS #:84-74-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzylbutyl phthalate(BBP) CAS #:85-68-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-2-ethylhexyl phthalate(DEHP) CAS #:117-81-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000

Tested Item(s)	Result Unit (mg/kg)						Acceptable Limit Unit (mg/kg)
	12	13	14	15	16	17	
Di-isobutyl phthalate(DIBP) CAS #:84-69-5	/	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate(DBP) CAS #:84-74-2	/	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzylbutyl phthalate(BBP) CAS #:85-68-7	/	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-2-ethylhexyl phthalate(DEHP) CAS #:117-81-7	/	N.D.	N.D.	N.D.	N.D.	N.D.	1000

Note:

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-Negative = Absence of Cr(VI) , the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.02 mg/kg with 50cm^2 sample surface area used.

-Positive = Presence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is equal to or greater than 0.02 mg/kg with 50cm^2 sample surface area used.

-#=According to the directive (2011/65/ EU), Lead is exempted as copper alloy containing up to 4% lead by weight.

Remark:

- The screening results are only used for reference.

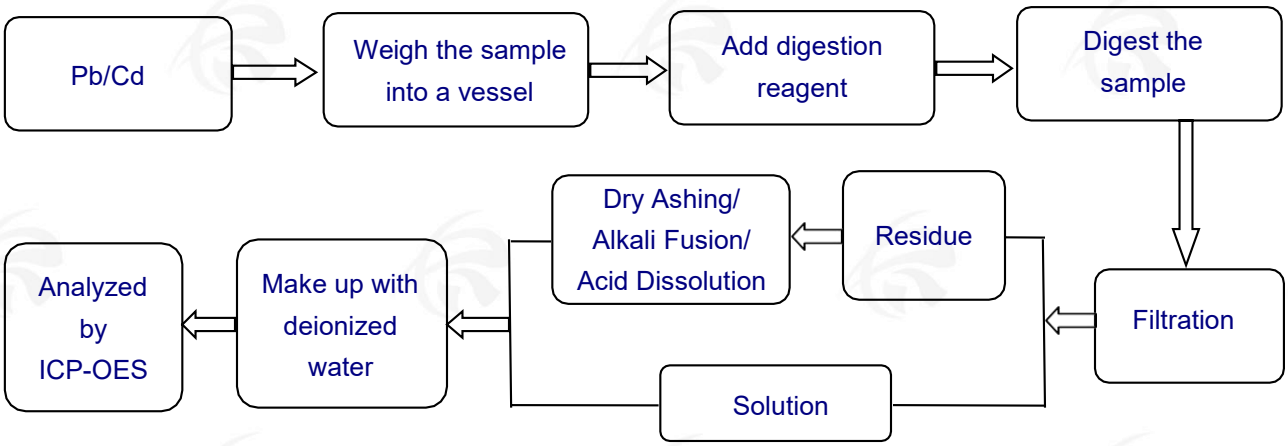
- When conducting the test for PBBs & PBDEs, XRF was introduced to screen Br Exclusively;

- When conducting the test for Hexavalent Chromium, XRF was introduced to screen Chromium exclusively.

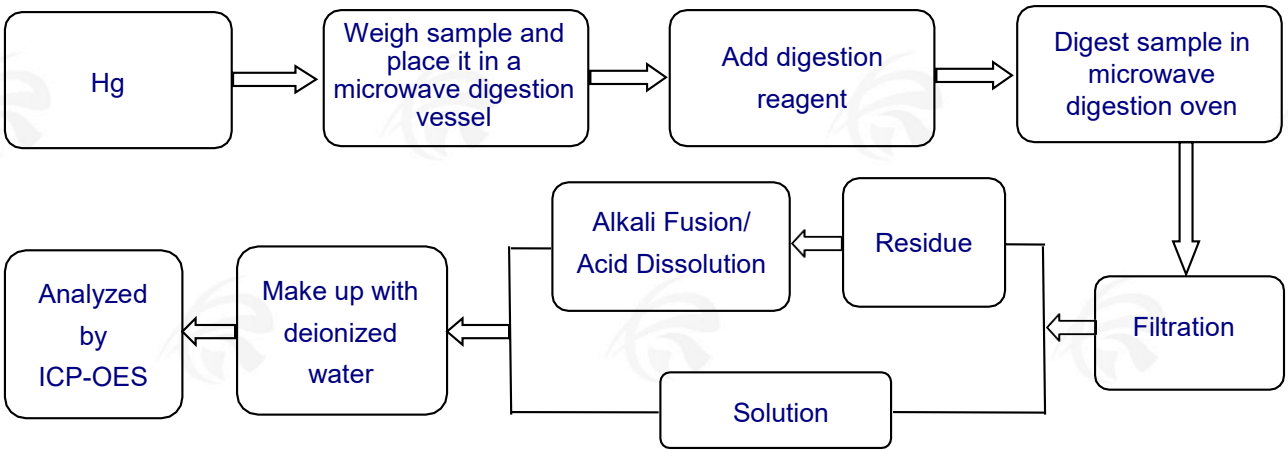
Test Process:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

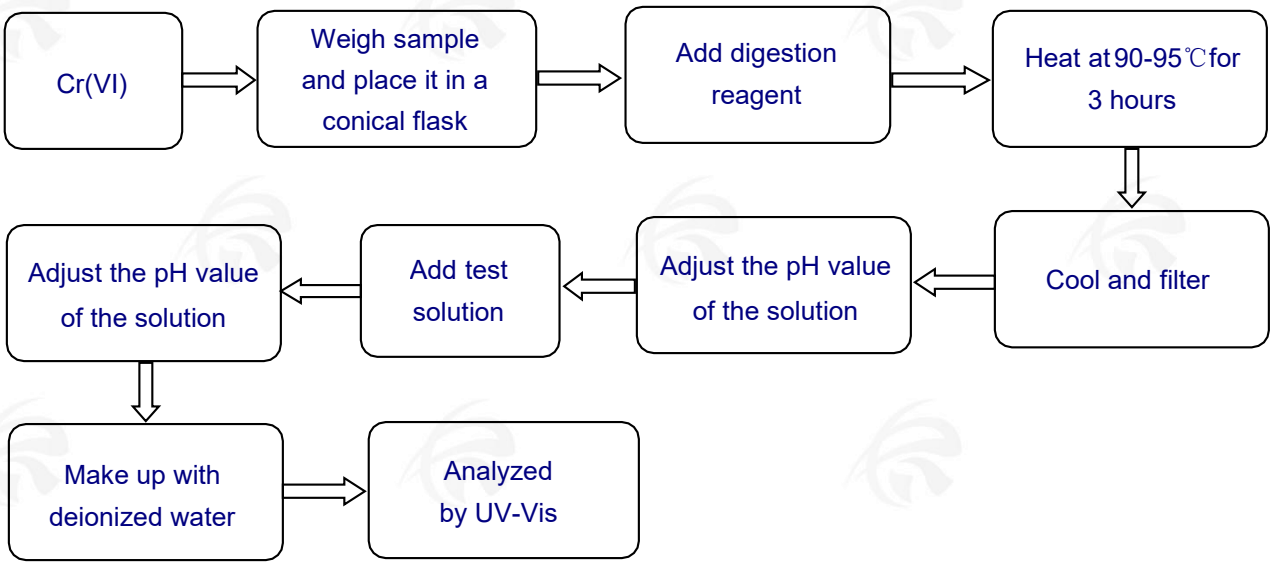
◆ **IEC 62321-5:2013 Ed.1.0**



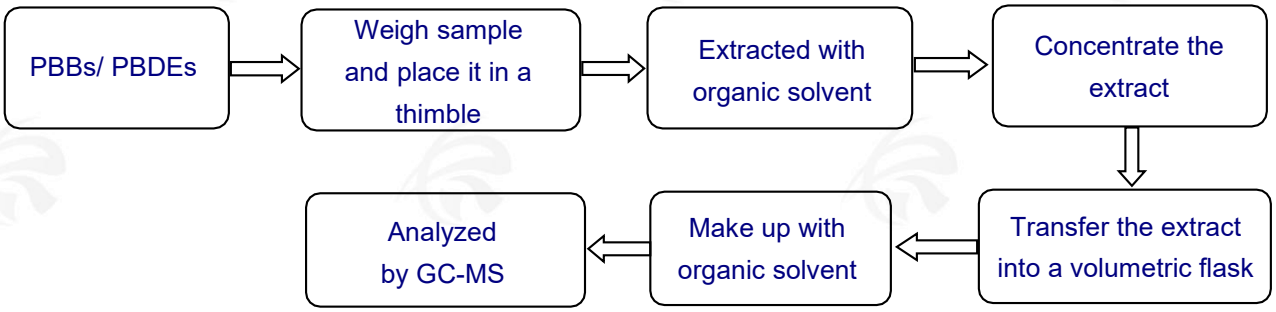
◆ **IEC 62321-4:2013+AMD1:2017 Ed.1.0**



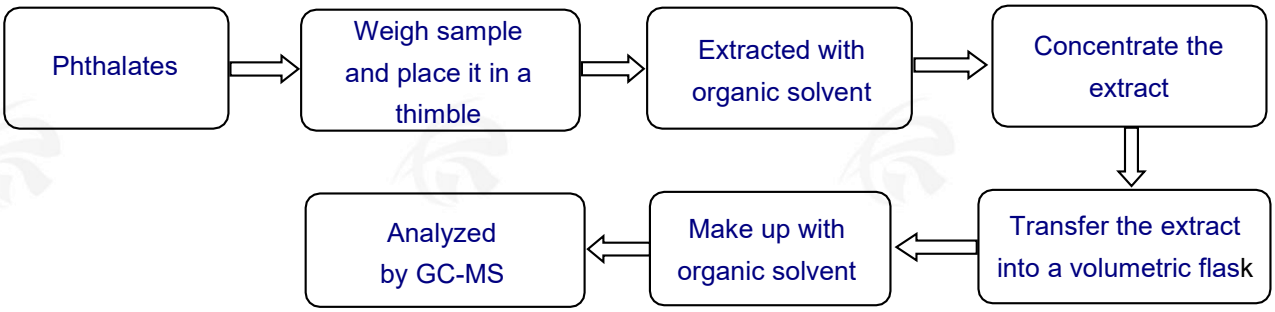
◆ **IEC 62321-7-2:2017 Ed.1.0**



◆ **IEC 62321-6:2015 Ed.1.0**



◆ **IEC 62321-8:2017 Ed.1.0**



Photograph of Sample



Figure 1



Figure 2



Figure 3

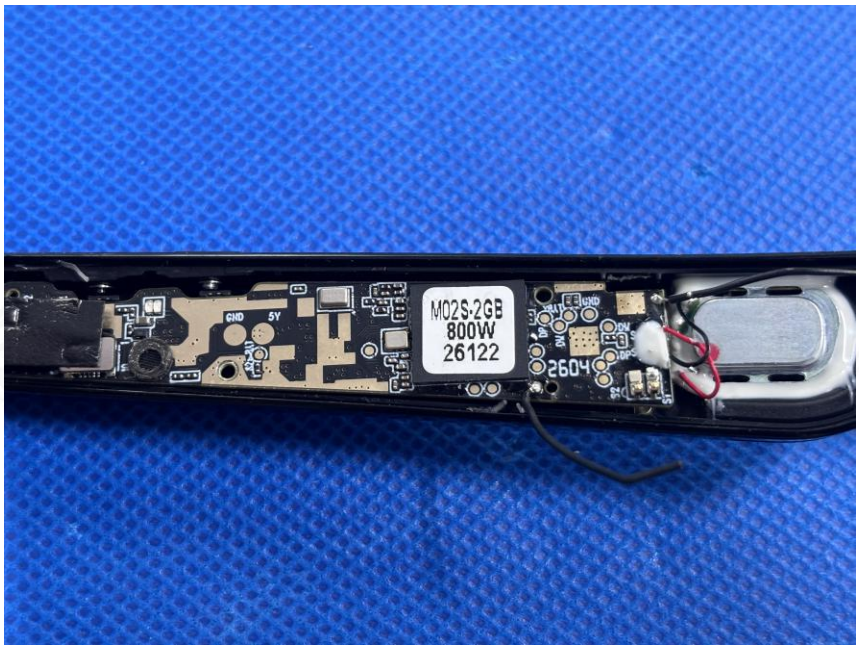


Figure 4

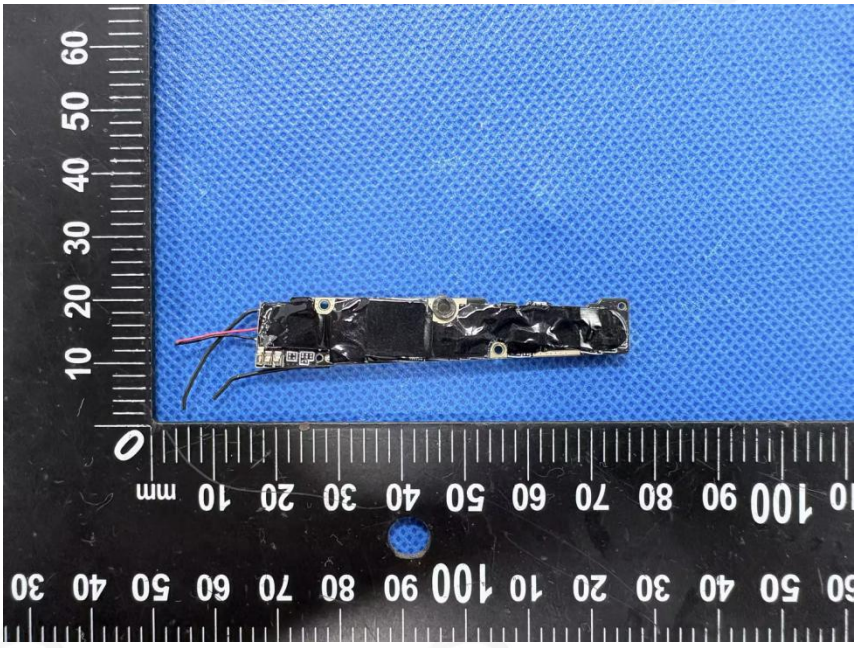


Figure 5

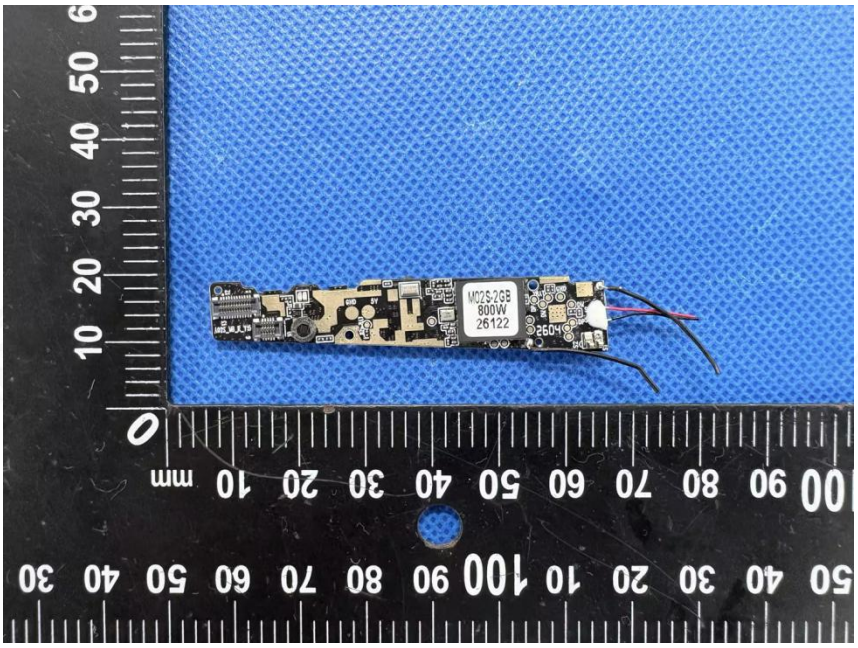


Figure 6

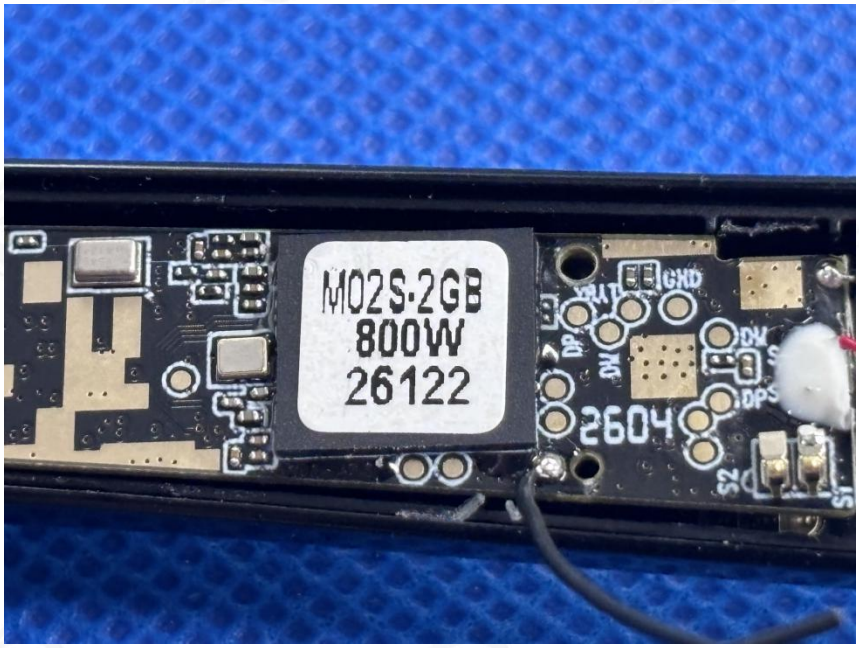


Figure 7



Figure 8



Figure 9

***** End of Report *****

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