EM-C110

Instruction Manual

Safety Instruction

This product is a medical device, Please read the 'Safety Instruction' and 'How to use' carefully before use.

✓ Wireless Device

Wireless devices can transmit radio frequency (RF) energy, much like a cellular telephone, whenever batteries are installed and the wireless device is turned on (if it has on/off switch). Before boarding any aircraft or packing a wireless device in luggage that will be checked, turn the wireless device off.

✓ Headset Device

Extended exposure to high volumes when using a headset may result in temporary or permanent hearing loss. To prevent damage to your headset, avoid sitting or stepping on the headset, its cable, or the cable connector.

This equipment complies with radiation exposure limits set forth for an uncontrolled environment. This appliance and its antenna must not be co-located or operation in conjunction with any other antenna or transmitter.

✓ Battery-Powered Device

Improper use of batteries may result in battery fluid leakage, overheating, or explosion. Do not heat, open, puncture, mutilate, or dispose of batteries in fire. Do not allow metal objects to touch the battery terminals on the device, they can become hot and cause inflammation.

✓ Safety Instruction

Please familiarize yourself with the instructions.

Check your ears for massive earwax or foreign objects.

If there is any foreign substance on the product, remove the foreign substance.

Safety Instruction

This product is a medical device, Please read the 'Safety Instruction' and 'How to use' carefully before use.

⚠ Caution

1. To reduce the risk of fire or electric shock, do not expose this device to rain or moisture
2. Do not attempt to take apart, open, service, or modify the device, doing so could present the risk of electric shock or other hazard.
3. Do not use this device in a place exposed to high temperature, high humidity or dust. Do not wear this product when receiving medical treatment or radiation treatment at a medical institution.
4. If water or sweat enters the device, it may damge the internal parts and cause malfunction. If water gets in to the device, wipe it with a dry cloth immediately and contact our service center.
5. When decorating or coloring the product arbitrarily, the appearance and surface of the product may deteriorate and cause an irritation depending on the constitution. If this reaction occurs, discontinue use and consult a physician.
6. If you want to control the sound through the application, please be familiar with how to use the app.
7. Excessive high volume may cause temporary or permanent hearing loss.

8. Keep the product clean. Use in dusty environments may cause product failure.
9. Keep earphones and ear tips as clean and dry as possible.
10. To conserve battery power, turn off the product when not in use.
11. Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
12. If there is a change in sound quality, remove the ear tip and check the earphone nozzle. If you have any problems, please contact our service center.

Safety Instruction

This product is a medical device, Please read the 'Safety Instruction' and 'How to use' carefully before use.

⚠ Caution

1. If you are getting an ear treatment, consult your doctor before using this device. Get your hearing checked regulary.
2. Refer to a Physician for the following.
   - Visible congenital or traumatic deformity of the ear.
   - History of active drainage from the ear within the previous 90 days.
   - History of sudden or rapidly progressive hearing loss within the previous 90 days.
   - Unilateral hearing loss of sudden or recent onset within the previous 90 days.
   - Acute or chronic dizziness.
   - Audiometric air-bone gap equal to or greater than 15 decibels at 500 hertz (Hz), 1,000 Hz, and 2,000 Hz.
   - Visible evidence of significant cerumen accumulation or a foreign body in the ear canal.
   - Pain or discomfort in the ear.

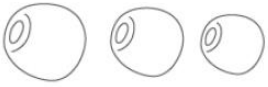
Component

✓ Product

① Hearing aid MIC ② CALL Button ③ Charging Port ④ Power

⑤ Jog Switch ⑥ Hearing MIC + Phone MIC ⑦ PLAY Button

✓ Extra Eartip(S/M/L)

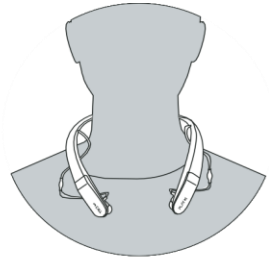


✓ Charging Cable

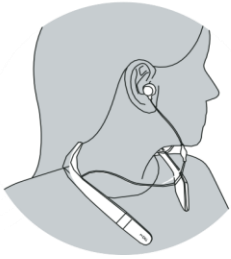
✓ User Manual

How to Use

✓ How to Wear



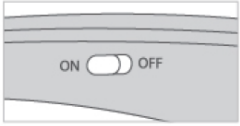
① Lightly raise the product on both shoulders with the clogged part of the product behind your neck.



② Please gently insert the earphone into your ear.

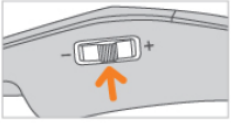
* Forcing to press may cause malfunction of the product or injury to the ear.

✓ Power



You can turn the product on (ON) or off (OFF) by operating the power switch.

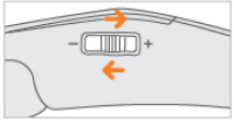
✓ HA Mode



You can turn on or off the listening mode by holding down the jog switch for longer than a second. If you turn off the listening mode, you will switch to Bluetooth mode.

* The EM-C110 application allows you to use more optimized hearing capabilities.

✓ Volume



Use the jog switch to adjust the volume to increase (+) or decrease (-)

How to Use

✓ Bluetooth Connectivity

- When you turn on the product, it automatically enters into Bluetooth pairing mode.
- If the red LED light flashes repeatedly, turn on the Blueooth of the smartphone that you want to connect with and search for the Bluetooth device.
- Select [EM-C110] from the list of Bluetooth devices found on your smartphone to connect.
- To start a new Bluetooth connection, turn on the product again or press & hold play/pause button and call button together for 2 seconds while the power is on, and it will enter the pairing mode manually.
- Pairing mode is maintained for 3 minutes after entering the mode and after 3 minitues, enter the pairing mode again accordingly.
- How the smartphone connects to Bluetooth depends on the manufacturer or model of your phone. Refer to the operation manual of the corresponding device.

* Transmitter is sold separately. Be sure to read the instruction manual supplied with the transmitter.

✓ Charging

The shape of the top and bottom of the charger is different so make sure to insert properly.

- To charge, open the cover of the charging port and connect the supplied charging cable properly into neckband
- When the battery is low, the LED indicator flashes red with voice alert telling you to charge the device.
- When charging, the indicators are as follows:

Battery Low	Battery Medium	Battery High
Red	Purple	Blue

* The use of the product is restricted during charging.

- You can check the battery status through voice alert by pulling or pushing the jog switch in standby mode.

How to Use

✓ Phone Call* Connect Bluetooth on your smartphone first before use.

Answer Call	Press the CALL button to answer the call.
Reject Call	When you receive a call, press and hold the CALL button for 2 seconds to reject the call.
End Call	During a call Press CALL button once to hang up.
Voice Dial	Press the CALL button briefly when you are on a call or when a call is not ringing, and if you tell the person you want to call, the phone will automatically make a call using voice recognition. (ex: Call Sam)
Last number Redial	Press and hold the CALL button for 2 seconds to make a call to the number you called last when you are on a call or not picking up a call.
End active call and Answer call	If you press the CALL button when another call is received during a call, the current call is disconnected and the incoming call is received.
Wait active call and Answer call	Press and hold the CALL button for 2 seconds when another call is received during a call.
Enable/Disable Mute	Pressing the PLAY button briefly while in a call will block the incoming call.

* Voice dial and Call switch function only works when the feature is applied to the smartphone

How to Use

✓ Music Streaming * Connect Bluetooth on your smartphone first before use

Play	Press Play button to play music on your phone.
Pause	While playing music, press Play button to stop music.
Next/Previous Track	If you move the jog switch up / down during music playback, it moves to the next song / previous song.

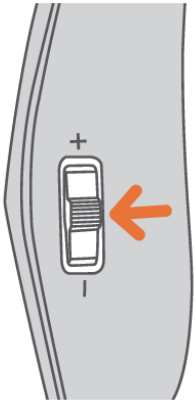
Application

✓ Download App

1) Android : Download on Play Store.
   iOS : Download on App Store.
2) Search for Clean Voice in the search box.
3) Select the Clean Voice app distributed by BSL and install it on your smartphone.

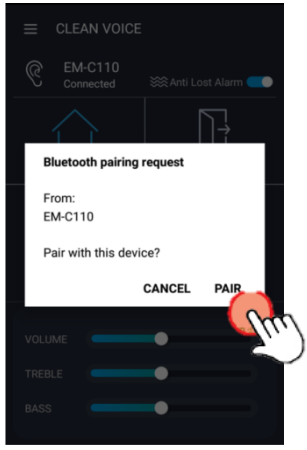
• Run Application

* This procedure is only required when registering the device for the first time.



Press the jog switch on the product twice quickly to hear the "beep" sound and then run the app.

Select Clean Voice from the list of apps in your smartphone to launch the app.

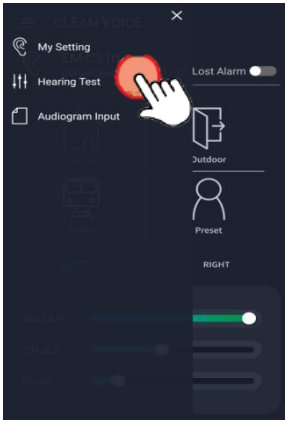


After 1 minute, select pair when the pop-up window appears as shown above.

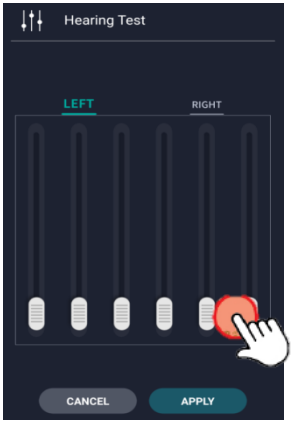
Application

✓ Hearing Test

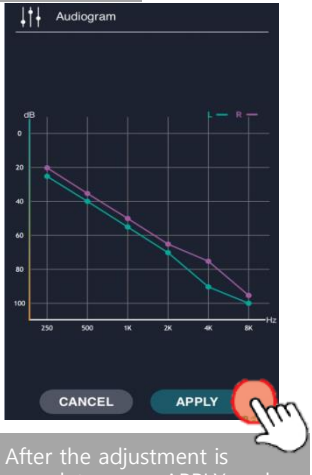
Open the slide menu by selecting the menu (≡) in the upper left corner of the main screen.



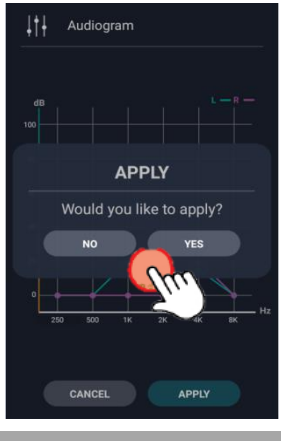
Select "Hearing Test" to perform the hearing test.



Move the six control bars to the lowest position where you hear the sound. Both left and right should be adjusted.



After the adjustment is complete, press APPLY and the test results will be displayed in the audiogram. Press APPLY to transmit the data to the product.

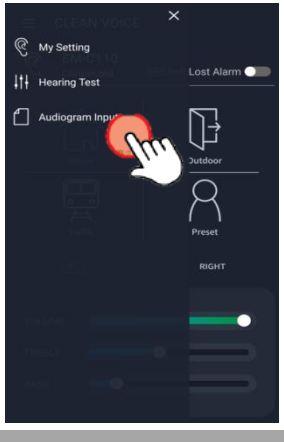


Press YES to apply the data to the product. If you want to repeat the test, press NO to return to the hearing test.

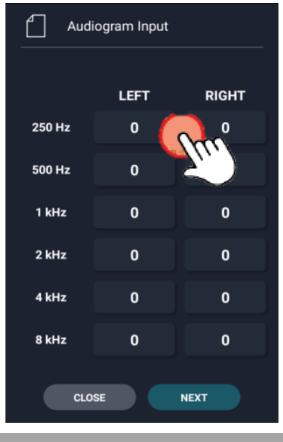
Application

✓ Audiogram Input

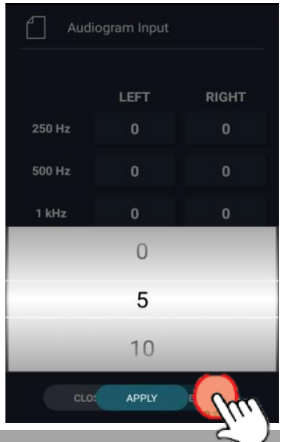
*If you have test results already from a hospital or hearing aid center, Please input the data yourself.



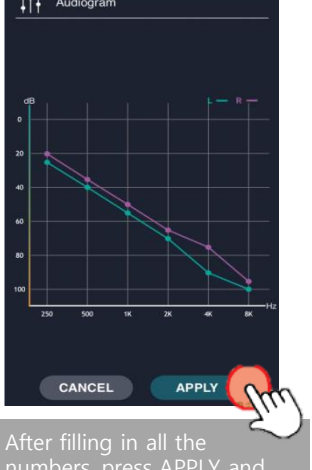
Select menu (≡) to open the slide menu and select Audiogram Input.



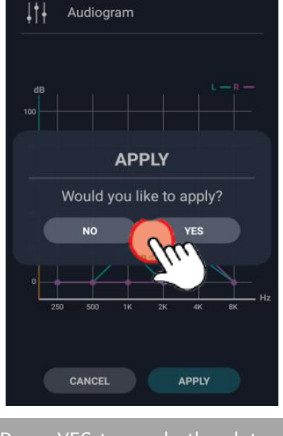
Select the input direction / frequency input window to input the results..



Scroll to center the number that matches your hearing and press APPLY.



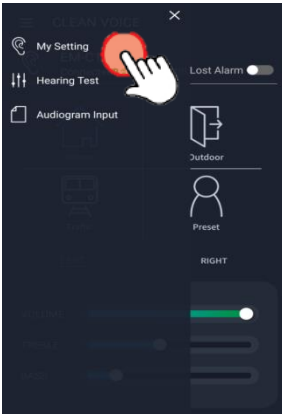
After filling in all the numbers, press APPLY and the test results will be displayed on the audiogram. Press APPLY to transmit the data to the product.



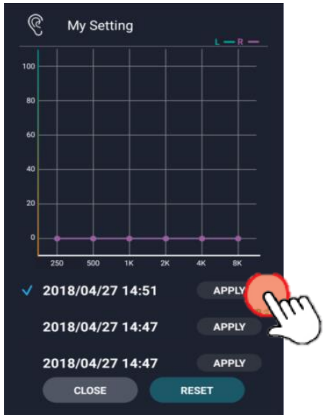
Press YES to apply the data to the product. If you want to input again, press NO to return to the audiogram input entry screen.

Application

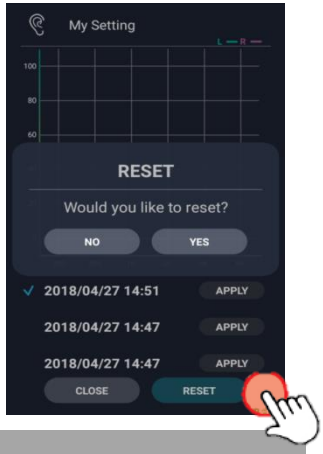
✓ My Setting



Select menu (≡) to open the slide menu and select My setting.

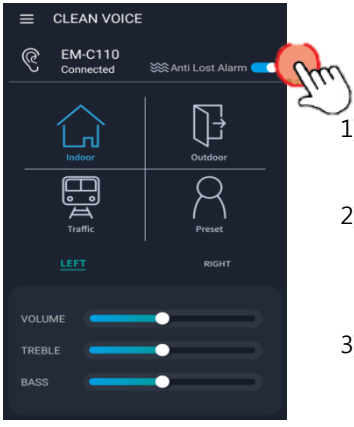


You can check the current hearing test results and past results. Press APPLY next to the desired result to apply the data you set in the past.



Selecting the RESET button resets the set data.

✓ Anti Lost Alarm

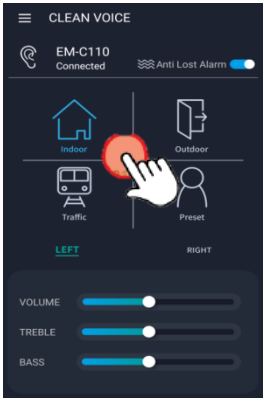


1) You can turn the loss prevention function on / off in the upper right "Anti Lost Alarm".
2) When set to ON, when the Bluetooth connection is disconnected or when the device and smartphone are separated, it is notified to the user by vibration.
3) If you do not want the function, set it to OFF.

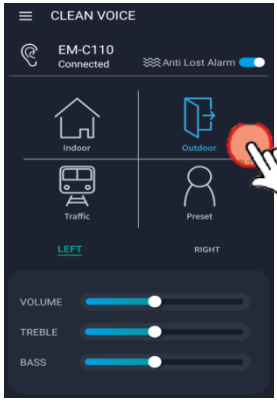
Application

✓ Environment Settings

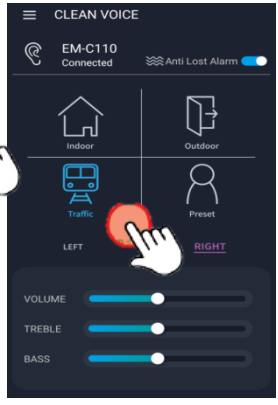
The initial screen allows you to adjust the listening environment based on the hearing data currently applied to the device.



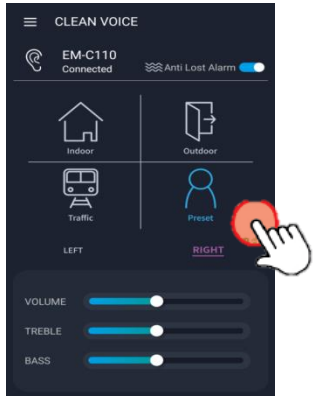
Indoor is suitable for listening in a quiet place or indoors.



Outdoor is set up for listening in the dining room or outdoors.

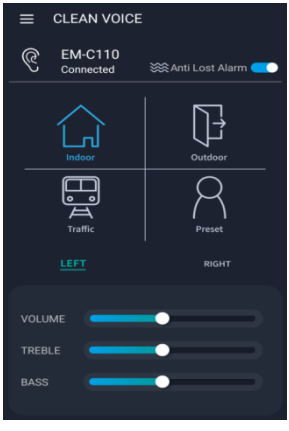


Traffic is set to be suitable for listening on public transit.



Preset allows you to create your own sound and listen to your needs. * Please refer to the sound control method below to make a sound.

✓ Volume Control



1) Use the volume control bar on the bottom to adjust the overall gain of the hearing aid. Adjust the volume on both sides to suit your situation.
2) Using the Bass(Low frequency), Treble(High frequency) control bar, you can create the most comfortable listening environment.
3) * If you feel uncomfortable with "howling" or "ringing" noise, reduce the Bass.
4) * If you feel uncomfortable with "bowl clashing" or "paper flipping", reduce the Treble.

A/S

✓ A/S Exchange Regulations

- A/S Costs may vary depending on BSL Co., Ltd. regulation.
- Rather if it cost of charge or free of charge, every A/S product including ear tip, and others will be at personal expense when mailing the product.
- Returns and refunds will be made only for the hearing aids and will be handled according to the following rules.
- Within one month after the sale of the hearing aid, the same product will be exchanged for the repair request or problem raised by the defective product.
- If the purchase receipt can not be checked, the warranty period of the product is calculated from the date of manufacture. We will repair free of charge the trouble that occurs during normal use within the warranty period. Even under the warranty period, repair cost may be incurred in the following cases.

- Failure or damage due to user's carelessness or misuse
- Failure or damage caused by user's repair modification, disassembly, cleaning, etc.
- Failure or damage due to natural disaster such as fire, earthquake, flood, lightning
- Failure of damage due to improper storage such as falling, impact, pressure, dust, mud, sand
- Failure or damage due to carelessness in storage (hot, humid place, cold)
- Failure or damage caused by consumables or products other than normal products
- If the validation is not possible (eg. if the serial number of the product is damaged)

A/S Inquiry * Please confirm product model name and fault condition before A/S Inquiry.

Repair Inquiry	033-243-8384
Visit Inquiry	Suite 103, 104 GangwonTechno Park ChuncheonVenture 2nd Factory Sinbuk-ro 61-14 Shinbuk-eup Chuncheon-si Gangwon-do, Zip Code 24206, Republic of Korea

Specifications and Technical Data

Product	Air conduction Hearing aid (A78010.02(2))	
Model Name	EM-C110	
Manfacture / Country	BSL Co., Ltd. / South Korea	
Manufacture Address	**Suite 103, 104 GangwonTechno Park ChuncheonVenture 2nd Factory Sinbuk-ro 61-14 Shinbuk-eup Chuncheon-si Gangwon-do, Zip code 24206, Republic of Korea** Tel: +82-33-243-8384	
Manufacturing License No.	Doc No. 3318	
Manufacturing License item No.	No. 18-4337	
Manufacturing date and Manufacturing No.	See bottom of the package	
Purpose of Use	A device that amplifies sound and transmits it by air conduction solution to compensate for hearing imparment.	
Operating Environment	10~40℃ / 30 ~ 75%R.H / 70 ~ 106 kPa	
Storage Environment	10~40℃ / 30 ~ 85%R.H / 70 ~ 106 kPa	
How to use and Caution	Check the Manual	
Packing Unit	1EA	
Usage Time	Stand-By Time	100 Hrs
	Hearing Aid Time	18 Hrs
	Phone Call Time	8 Hrs
	Streaming Time	8 Hrs
Charging Time	3 Hrs	
Bluetooth	Ver. 5.0	
Hearing aid	Channel / Band	5 CH / 32 Band
Acoustic Parameter	Driver Unit	Single BA: EMT
	Frequency Range	250 Hz ~ 6500 Hz
	Sensitivity	115 dB SPL @1 kHz
	Impedence	30.5 Ohm
Power	Rated Input Voltage	DC 5 V, 300mA
	Battery	3.7 V, 210 mA
	Battery Type	Li-ion
The product is a “Medical Device”		

Manufacturer Declarations

Conformite Europeenne Mark
CE marking is a part of the EU's harmonisation legislation, which is mainly managed by Directorate-General for Internal market, Industry, Entrepreneurship and SMEs.

Federal Communications Commission
FCC mark is a certification mark employed on electronic products manufactured or sold in the United States which certifies that the electromagnetic interference from the device is under limits approved by the Federal Communications Commission.

Korea Certification
KC mark signifies compliance with Korea's product safety requirements for electrical and electronic equipment and components that utilise power from AC 50-1000V.

Aptx
aptX Low Latency is intended for video and gaming applications requiring comfortable audio-video synchronization whenever the stereo audio is transmitted over short-range radio to the listener(s) using the Bluetooth A2DP audio profile standard.

Recycling symbol
The recycling symbol is in the public domain, and is not a trademark. The Container Corporation of America originally applied for a trademark on the design, but the application was challenged, and the corporation decided to abandon the claim. As such, anyone may use or modify the recycling symbol, royalty-free.

Japanese Ministry of Internal Affairs and Communications
TELEC (Telecom Engineering Center) is a certification body that provides Technical Regulations Conformity Certification service according to Radio Law.

Good Manufacturing Practice
Matters to be observed by pharmaceutical manufacturers for manufacturing and quality control of excellent medicines.

Waste Electrical and Electronic Equipment Directive (WEEE Directive)
is the European Community Directive 2012/19/EU on waste electrical and electronic equipment (WEEE) which, together with the RoHS Directive 2002/95/EC, became European Law in February 2003.

Bluetooth
Bluetooth technology enables mobile devices to exchange data wirelessly, and it comes on every computer, smartphone and tablet today

Direct current
Direct current is the unidirectional flow of electric charge. A battery is a good example of a DC power supply

BSL Co., Ltd
Suite 103, 104 GangwonTechno Park ChuncheonVenture 2nd Factory Sinbuk-ro 61-14
Shinbuk-eup Chuncheon-si Gangwon-do, Zip code 24206, Republic of Korea
Tel. +82-33-243-8384 Fax. +82-33-243-8385

*FCC Statement
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, and
(2) This device must accept any interference received, including interference that may cause undesired operation.
Caution: Any changes or modifications to the equipment not expressly approved by the party responsible for compliance could void user's authority to operate the equipment.

*CE Statement
This product is CE marked according to the provision of the R.E.D Directive (2014/53/EU).
Here by BSL Co., Ltd. Declares that this product is in compliance with the essential requirement and other relevant provisions of Directive 2014/53/EU.

"This device can be operated in at least one Member State without infringing applicable requirements on the use of radio spectrum."

•This product does not provide an adapter, so please purchase an LPS Certified adapter.

•RF exposure
The available antenna power of this EUT is 1.92 mW(2.83 dBm, BDR/EDR) and 3.16 mW (4.99 dBm/BLE), the power is Below the low-power Exclusion level defined in 4.2(Pmax: 20 mW).

This appliance and its antenna must not be co-located or operation in conjunction with any other antenna or transmitter.
This equipment complies with RF exposure requirements set forth for an uncontrolled environment.