



User Manual



NSound FM/Bluetooth Hearing Assistive Aid

User Manual



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Please read the manual thoroughly before using the device



Preview

Digital complex hearing aid with wireless Bluetooth/general hearing aid function and FM distant hearing function for the hearing-impaired. This can be applied for the smart phone wireless call, besides music and voice amplifier. At school and home, this can be used as wireless voice Amp. Besides it has compatibility with cochlear.

Features

- Convergence of Bluetooth digital voice amplifier and FM distant hearing function. (Put on as/with a necklace or clip on clothes, has both ear voice amp. function)
- It is possible to listen every voice information such as wireless voice call and music of the smart phone.
- General digital voice amplifier and wireless transmitter & receiver voice amplifier function.
- Its own Android app for left/right 8Ch user fitting.
- FM distant hearing function with 10 channels (1:N receiving option).

Main parts and Accessories

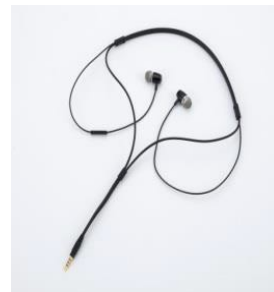
FM Transmitter



Receiver



Headset



Mic.



User Manual



Ear tips: 3 sizes



Receiver(KHA-900R)

1. Turn on the device

Press ① and hold the button for more than 2 seconds, the LCD window lights up and operation starts. At this time, bt (voice amplification function) or CH display window (FM function) is displayed on the LCD window.

2. Switch functions

Using the slide switch ⑤, you can switch BT <-> FM function.

* bt : Digital voice amplification and smartphone and hands-free or audio wireless listening

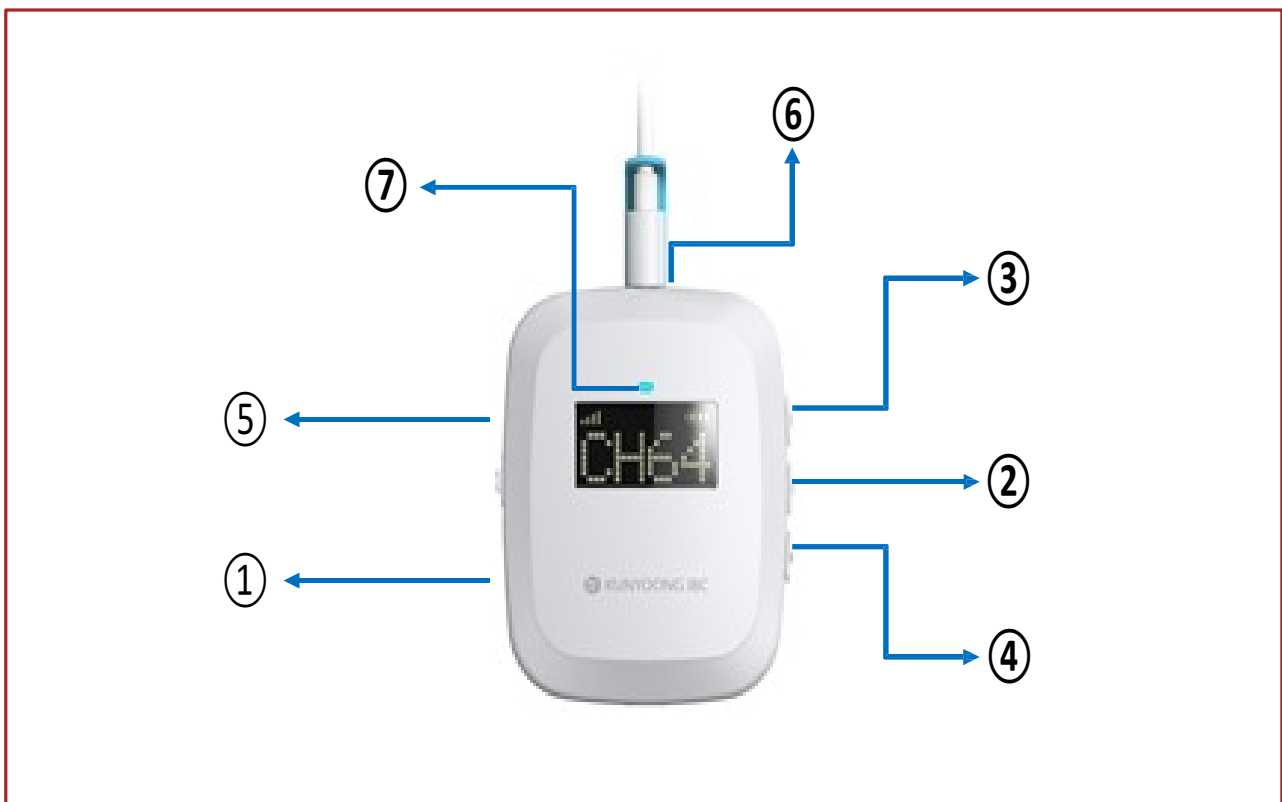
*ch display : It is converted to an FM distant hearing function that can be used with an FM transmitter.

3. Voice amplification function

- You should proceed with bt displayed on the LCD window.

Digital amplification function

Put a necklace-type earphone at the top of the product marked ⑦ put the product on your neck, and wear it on your ear. At this time, if LED window ⑦ in front of the product is blinking green, it is normal operation.(You can adjust the volume through buttons ③ and ④ according to your hearing.)



II. Connecting to a smartphone using Bluetooth

When you press ① button of receiver quickly twice, ⑦ LED window flashes rapidly in green and red. At this time, when “NSound” is displayed in the Bluetooth setting of the smartphone, it can be selected and used by connecting with the smartphone.

1) Smartphone hands-free function

You can hear a phone ring through headset when the receiver is connected to a smartphone while using voice amplification function. If you press the button ① of the receiver once, you can switch to the hands-free call state and talk. When the call ends, it automatically returns to the previous use state.

2) Smartphone audio listening

If you play the music or video of the smartphone while using the voice amplification function, the voice amplification function is automatically stopped and you can listen to wireless audio.

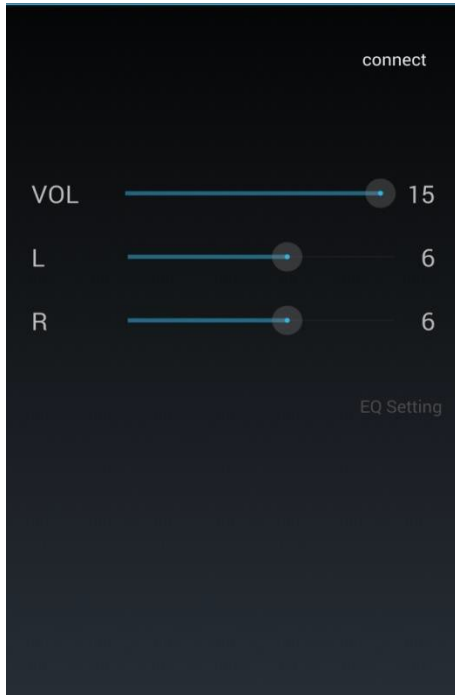
* Since the volume of the voice amplification function may be different from the listening volume when using the smartphone, you can adjust the volume by yourself using the buttons ③ and ④.



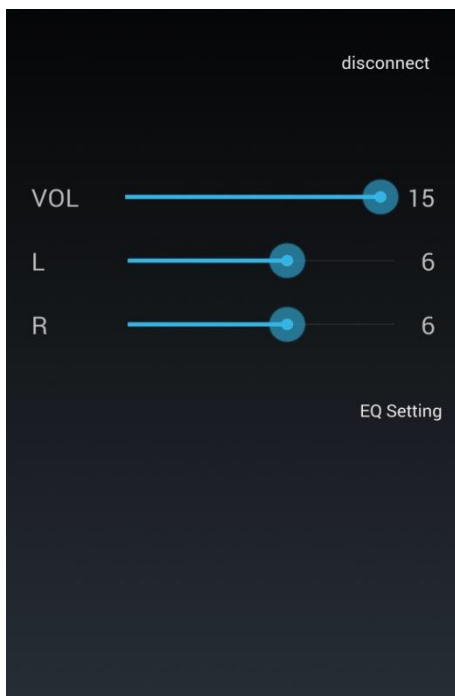
Turn Bluetooth function on and you will be able to find “NSound” that you can pair with your phone.

III. Smart app fitting function

- 1) Download the app “NSound” from Google Store for Android
- 2) The app can be operated while the product is connected to the smartphone Bluetooth, and the output can be adjusted according to the hearing status of the user in the following way.



1. When the application is executed normally, the screen as shown in the figure is displayed. Connect to the receiver by pressing connect at the top right.



2. When the receiver and app is connected: Disconnect is displayed on the upper right as shown in the figure, and EQ Setting is displayed on the right middle. (disconnect when disconnected)

VOL stands for the entire volume, and you can adjust the overall volume by moving the blue circular slider left and right.

L means the left volume, and you can adjust the left volume by moving the slider left and right.

R stands for the right volume, and you can adjust the right volume by moving the slider left and right.

Press EQ Setting to fine-tune the sound.



3. Press EQ Setting to display the screen as shown in the figure.

- The listed vertical values indicate the range heard in hertz (Hz). Low frequencies (starting at 500Hz) are bass frequencies and high frequencies are treble.
- The horizontal value of each bar represents the decibel (db) in which the volume or intensity of each Hz frequency is measured. Move the blue circular slider left or right to increase or decrease the sound you can hear in a certain frequency range.
- Depending on the individual's hearing difference, you can adjust LEFT SETUP and RIGHT SETUP at the top of the screen to adjust the sound appropriately for each ear.





4. Click the gray box in the top left corner. You can save up to 3 fitting values adjusted, and you can change them at any time. (When listening to music, you can listen to the sound you want by selecting the classic, club, or live function with the simple selection function.)

When modifying user settings, you can reset the frequency back to the default value by pressing RESET in the top right corner.

4. FM distant hearing function

- A dedicated transmitter allows you to clearly hear any sound from distance.
- You should proceed with the “ch” display window (FM function) displayed on the LCD window.

I. Mode switching function

Press ② and toggle channel (ch)  volume (vo)  automatic channel receiving function (Au).

③,④ allows you to change and adjust channels and volume as well as turn on/off automatic channel receiving function.

II. Automatic channel receiving function (Auto Mode)

When FM Auto Mode is selected, the channel of the transmitter is automatically detected and received. Use this function if the transmission channel is not known at the school or public facility where the FM transmitter is used.

5. Lock function

This function allows you to lock every function. After aligning the FM receive channel If you press and hold ② for more than 2 seconds, a “lock” is displayed and the lock function is activated. Even when locked, ③ and ④ which are the volume controls, can be used with the button.

6. FM/ BT mixture function

It is possible to operate the voice amplification function or the smartphone audio listening function when using/listening with FM function. That is, FM listening is enabled while using the voice amplification function. At this time, the volume can be adjusted by adjusting the volume of the BT mode. If you set the volume to the lowest level in BT mode, you will not hear the voice amplification and smart handsfree audio listening at FM listening.

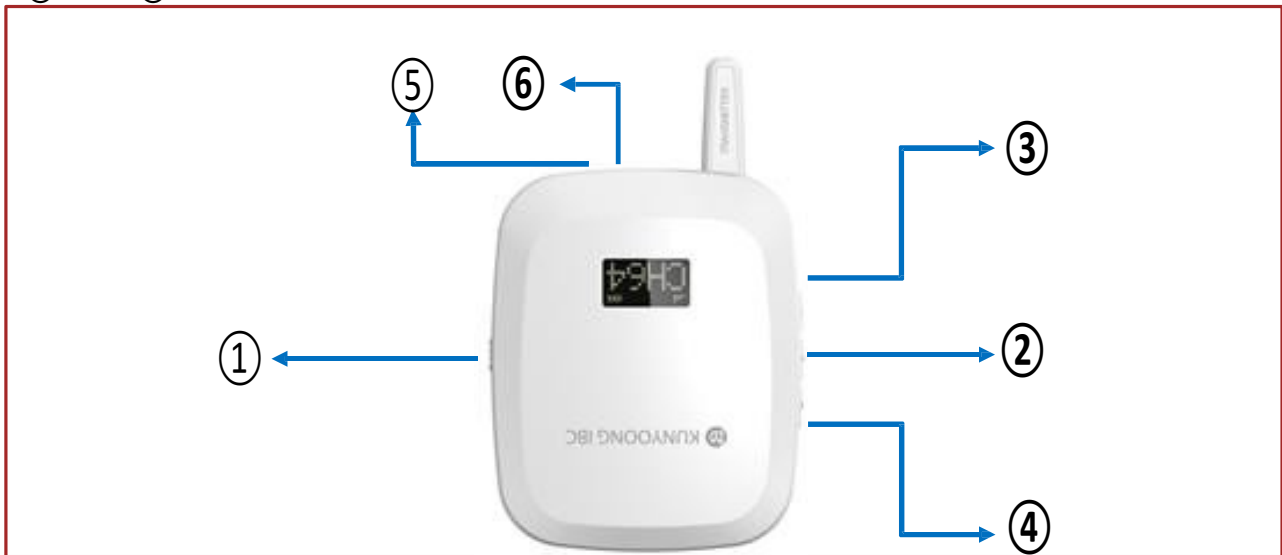
FM Transmitter(KHA-900T)

1. Turning on

Slide the slide switch ① and the CH display window will be displayed on the LCD window.

2. Switching channel

After turning on the power, press the ② button lightly and the number part of CH display blinks. At this time, you can change the channel through buttons ③ and ④.



3. Aux and Mic select function (for connecting external audio devices)

After turning on the power, press the ② button lightly and the number part of CH display blinks. At that time, if you press the ② button lightly again, you can select AU / MI function by ③, ④ button. MI turns ON when AU is OFF.


Connecting Mic.

After MI is set to ON, audio can be transmitted by connecting to microphone (MIC) through input terminal ⑤.

I. Connecting AUX

After setting AU ON, audio can be transmitted by connecting to external device (AUX) through input terminal ⑥.

4. Lock function

If you press and hold ② button,  mark will be displayed on top of LCD and lock function will be set. Press and hold button 2 again to release the lock function.

Etc

1. For hearing aid or cochlear implant user:

Use NSound Neckloop type

2. Charging

Charge the equipment using provided charging adaptor.

(Red LED → Charging finished → Green LED state)

Receiver
(KHA-900R)



FM Transmitter
(KHA-900T)



3. Notice

1. Please don't use it in humid/dusty place or the place, that there are a lot of corrosive gas (coal gas) because its life-time is shortened. And please put the distance from firearms and use it.
2. Do not apply shock or excess impact to it.
3. Don't disassemble it at your pleasure.
4. If you cleanse products outside with inflammables such as alcohol or benzene, acetone etc.. it may cause chemical change and then its surface can be degenerated. So, please cleanse it with dry cloth.

Specifications

Receiver(KHA-900R)

Used wireless frequency	2.4GHz/ 216~217MHz
Range of receiving	Approx. 50M
Max. output	125dB stereo
Operation power	Lithium Ion Battery (For charging : 3.7V)
Continuous using Time	20 hours
DC input	DC5V/500 mA
Size	41mm(W) x 64mm(D) x 17mm(H)
Weight	33g

FM Transmitter(KHA-900T)

Used wireless frequency	216~217MHz
Range of receiving	Max. 100M
Operation power	Lithium Ion Battery (For charging : 3.7V)
Continuous using Time	20 hours
DC input	DC5V/ 1,000mA
Size	59mm(W) x 79mm(D) x 19mm(H)
Weight	62g

<Operation distance between Transmitter and Receiver>
The distance can be reduced depend on the wireless network condition.

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: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

* This equipment complies with FCC 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.



Warranty

Our product's warranty period is a year from purchase, We're compensation for loss according to Consumer injury compensation rule.

CASE OF CUSTOMER INJURY			COMPENSATION	
			WITHIN GUARANTEE PERIOD	AFTER GUARANTEE PERIOD
DISORDER ON NORMAL USE SITUATION	DISORDER ON NORMAL USE SITUATION WITHIN A MONTH AFTER PURCHASE CORE TECHNICAL PROBLEM		FREE EXCHANGE	A/S PROVIDE AT A COST
	OVER 4TIMES DISORDER FOR SAME REASON		FREE EXCHANGE	A/S PROVIDE AT A COST
	NOT AVAILABLE A/S	OVER 3TIMES DISORDER FOR SAME REASON	Free of charge A/S	A/S PROVIDE AT A COST
	NOT AVAILABLE A/S	WHEN EXCHANGE IS AVAILABLE	FREE EXCHANGE	Exchange after a fixed rage depreciation
User's carelessness	AVAILABLE A/S		A/S PROVIDE AT A COST	A/S PROVIDE AT A COST
	WHEN REPAIRE IS IMPOSSIBLE		EXCHANGE GOODS AFTER DEDUCTION OF REPAIR FEE	ACCORDING TO OUR CRITERIA
When company lost customers requested goods			Repayment of purchase price or Free Exchange Same as Goods	Exchange after a fixed rage depreciation
Holding period of parts is 5years from manufacturing.				

**** Authorized form registration ****

company : KUNYOONG IBC

Manufactured date : 2018. 08

Manufacturer/Country : KUNYOONG IBC / Korea



KHA-900T / R-C-KY1-KHA-900T

KHA-900R / R-C-KY1-KHA-900R

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