

BTH-300 Bluetooth headset for Kenwood NX-5000

MobilitySound

Compatible with your iPhone Headset



BTH-300 vknx



The **MobilitySound BTH-300** is a wireless microphone kit designed for use with Kenwood NX-5000 series radios.



Federal Communication Commission Interference Statement

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 and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will 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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with FCC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting.

Please keep product 20cm away from your body or bystander during the radio operation. The typical handheld two-way radios were certified under mobile usage condition (i.e. keep 20cm away from the user body) and use of such radio closer than 20cm may exceed the US RF exposure limit and shall be avoided.



Controls and Connection

EARPHONE JACK

Any standard 3.5 mm mono or stereo listen-only earphone can be plugged into this jack. Received calls can be heard over the earphone.

Can also be used with 3.5 mm 4-conductor (Apple iPhone compatible) audio accessories that contain both earphones and a microphone. Received calls can be heard over the accessory earphones and transmit audio will be taken from the accessory microphone.

Install the supplied dust cover when the jack is not in use.



EARPHONE Included

Other earphones/audio accessories are sold separately.

BUILT-IN MICROPHONE

This microphone picks up the user's voice audio to send over-the-air



PTT BUTTON

When the **MobilitySound BTH-300** Bluetooth headset is paired with a **MobilitySound Adapter**, holding this button down activates the Push-to-Talk feature of the two-way radio.

"COVERT" STATUS LED

Located on the rear of the **MobilitySound BTH-300**, the status LED flashes messages that let the user know the current status of the device.

VOLUME UP/DOWN BUTTONS

These buttons can be used to set the volume level of the BTH-LMIC's earphone

POWER BUTTON

Turns the MobilitySound BTH-300 on and off. Also, used to place the Mobility Sound BTH-300 in pairing mode so that it can be connected wirelessly to a MobilitySound Audio Adapter or cellular phone.



CLOTHING CLIP

The alligator-type clip secures the **MobilitySound BTH-300** to the user's clothing during use. The clip can be rotated to allow the mic to be better positioned.

CHARGE JACK

This mini-USB jack is used to connect the supplied charger in order to recharge the **MobilitySound BTH-300's** internal battery pack



Connecting an Audio Accessory to the BTH-300

The Mobility Sound BTH-300 has an internal Lithium Ion rechargeable battery pack which must be charged prior to operation, and must be recharged regularly. A fully charged battery will provide approximately 12 hours (or more) of operation before needing to be recharged. However, operating time can vary depending on usage and the condition of the battery pack. Recharge the battery regularly.

STEP ONE: Power On the BTH-300



In order to hear incoming signals received by the two-way radio, the **MobilitySound BTH-300** must be used with an earphone. A ear bud-style earphone is included with the **MobilitySound BTH-300** Bluetooth headset.

STEP TWO: Connecting the Earphone to the BTH-300





1. Plug the earphone into the 3.5 mm audio jack located on the top of the **MobilitySound BTH-300**. Make sure that the connector on the earphone is pushed all the way into the jack on the BTH-300.
2. You can adjust the volume of received signals by using the Volume Up and Volume Down buttons on the side of the BTH-300.

Other Audio Accessories:

Although the BTH-300 includes a ear acoustic-style earphone, it is possible to use a different audio accessory, if you wish. The 3.5 mm audio jack on BTH-300 will accept any mono or stereo earphone with a 3.5 mm audio plug. You can also use any Apple iPhone compatible audio accessory with a 3.5 mm 4-conductor plug. If the audio accessory has a built-in microphone, transmit audio will be taken from the accessory microphone.

MobilitySound makes a variety of listen-only earphones in different styles that will work with the BTH-300, check next page for the option list.

Optional Earphone accessories:

Model	Style	Picture
300-EP31	Acoustic Tube listen-only	 <p>The image shows a black earphone with a green 3.5mm jack. It features a coiled black cable and a white acoustic tube with a mesh grille at the end. A small orange ear tip is shown separately next to the tube.</p>
300-EP63	D-shape earset with boom Microphone	 <p>The image shows a black earphone with a green 3.5mm jack. It has a coiled black cable and a D-shaped earset. A boom microphone is attached to the side of the earset.</p>
300-EP67	G-Hook listen-only	 <p>The image shows a black earphone with a green 3.5mm jack. It has a coiled black cable and a G-shaped hook earset.</p>
300-EP68	Acoustic Tube listen-only	 <p>The image shows a black earphone with a green 3.5mm jack. It has a coiled black cable and a white acoustic tube with a mesh grille at the end. A small orange ear tip is attached to the end of the tube.</p>

300-01	Low Profile ear phone	
300-02	HP90 Ear Muff cable	
300-Peltor	Peltor Muff cable	
300-HP02	Motocycle helmet solution	
BT-PTT	Wireless Remote PTT	

BT-PTT2	Wireless Remote PTT	
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Pairing With BTH-300 with Kenwood NX-5000

STEP THREE: Pairing BTH-300 to Kenwood NX-5000



- ① 【Power-switch】
- ② 【Menu】
- ③ 【Left】
- ④ 【Right】
- ⑤ 【Up】
- ⑥ 【Down】

< 接続方法（初回） >

The first time.

- 1) 【Power-switch】を ON 把【Power-switch】打開(ON)
Power on the power switch
- 2) 【Menu】を押下 押【Menu】
Press Menu
- 3) 【Left】もしくは【Right】を押下してBTアイコンを選択し【Menu】を押下
押【Left】或者是【Right】然後選擇BT icon後押【Menu】
Press Left or Right button and choose BT Device and press Menu
- 4) 【Up】もしくは【Down】を押下して「BT Device」を選択し【Menu】を押下
押【Up】或者是【Down】然後選擇「BT Device」後押【Menu】
Press Up or Down and choose BT Device and press Menu
- 5) BTH-300をペアリングモードに突入
把BTH-300放進pairing mold
Press BTH-300 power for more than 5 seconds for pairing, it's Blue/Red LED flashing.
- 6) 【Up】もしくは【Down】を押下して「Find Device」を選択し【Menu】を押下
押【Up】或者是【Down】然後選擇「Find Device」後押【Menu】
Press Up or Down and choose Find Device then press Menu
- 7) 【Up】もしくは【Down】を押下して「BTH-300」を選択し【Menu】を押下
押【Up】或者是【Down】然後選擇「BTH-300」後押【Menu】
Press Up or Down choose BTH-300 and press Menu
- 8) 「Connect?」と表示されるので【Menu】を押下
因為會表示「Connect?」所以請押【Menu】
It shows Connect? Press Menu
- 9) BTH-300がRING鳴音したらBTH-300の通話ボタンを押下
如果BTH-300鈴聲叫的話請押BTH-300通話按鍵
If BTH-300 rings press BTH-300 Talk button.
- 8) 「Connected」と表示されて接続完了
表示出「Connected」就接續完成
If shows Connected it's OK for using.

< 接続方法（2回目以降） >

Second time.

- 1) 【Power-switch】を ON 把【Power-switch】打開(ON)
Power on the radio.
- 2) 【Menu】を押下 押【Menu】
Press Menu
- 3) 【Left】もしくは【Right】を押下してBTアイコンを選択し【Menu】を押下
押【Left】或者是【Right】然後選擇BT icon後押【Menu】
Press Left or Right button and choose BT Device and press Menu

- 4) 【Up】もしくは【Down】を押下して「BT Device」を選択し【Menu】を押下
押 【Up】或者是【Down】然後選擇「BT Device」後押【Menu】
Press Up or Down and choose BT Device and press Menu
- 5) 【Up】もしくは【Down】を押下して「My Device」を選択し【Menu】を押下
押 【Up】或者是【Down】然後選擇「My Device」後押【Menu】
Press Up or Down and choose My Device then press Menu
- 6) 【Up】もしくは【Down】を押下して「BTH-300」を選択し【Menu】を押下
押 【Up】或者是【Down】然後選擇「BTH-300」後押【Menu】
Press Up or Down choose BTH-300 and press Menu
- 7) 「Connect?」と表示されるので【Menu】を押下
因為會表示「Connect?」所以請押【Menu】
It shows Connect? Press Menu
- 8) BTH-300がRING鳴音したらBTH-300の通話ボタンを押下
如果BTH-300鈴聲叫的話請押BTH-300通話按鍵
If BTH-300 rings press BTH-300 Talk button
- 9) 「Connected」と表示されて接続完了
表示出「Connected」就接續完成
If shows Connected it's OK for using.

Optional:

Pairing With BTH-300 with BT-PTT or BT-PTT2

Power off Radio

Press and hold on the BT-PTT then power on for 3 seconds till the LED is two flashes per second.

Release BT-PTT button.

Power on BTH-300 for more than 5 seconds till the RED/BLUE LED flash.

Power on radio.

After BT-PTT paired with BTH-300 you can use the PTT on BTH-300 and BT-PTT.

Testing and Using the BTH-300

Once your MobilitySound BTH-300 and NX-5000 radio have been paired together:

Received signals will be heard over the **MobilitySound BTH-300's** earphone. The volume of received calls can be adjusted using the Volume UP and Volume DOWN buttons on the **MobilitySound BTH-300**. The volume can also be adjusted using the volume control on the two-way radio (for most models).

Note that if you are using a wireless Bluetooth PTT, you will first need to pair the adapter with the PTT using the instructions located in the MobilitySound PTT User's Guide.

When transmitting, the type of audio accessory that is connected to the **MobilitySound BTH-300** determines which microphone will be selected as the audio source.

If a listen-only earphone is used, transmit audio is taken from the internal microphone in the **MobilitySound BTH-300**.

If an audio accessory that has both an earphone and microphone is used, transmit audio is taken from the accessory microphone.

Operate the BTH-300 and STATUS LED MESSAGES

The meanings of the various status LED messages indicated by the **MobilitySound BTH-300** are shown on the following table:

State and Action	LED MESSAGE	MEANING
BTH-300 No link and not paired		
Device is off	No indication	BTH-300 is off
When device is off, press power key for 3 seconds	Solid Blue & Red LED ON for 1 second then OFF	BTH-300 is ON
When device is off, press power key for 6 seconds	Blue & Red LED flashes alternatively	Get BTH-300 into pairing mode
When device is ON, press power key for 3 seconds	Red LED flashes 3 times then off	Turn BTH-300 off
Device ON, no paired or lost link	Blue LED flashes once every 2 seconds	Not paired or lost link
BTH-300 linked with audio dongle only		
Single link with dongle	Blue LED flashes once every 6 seconds	Linked with adapter only
Press/release the PTT button	When PTT pressed, Red LED solid ON, OFF when released	Linked with dongle
Press the volume keys	Blue LED flashes once every 6 seconds	Adjust audio dongle volume

Earphone
When a 3-pole earphone is plugged, only speaker is switched to the earpiece, need to use BTH-300 built-in Microphone to talk
When a 4-pole iPhone standard earphone is plugged, both speaker and microphone are switched to the earpiece, BTH-300 built-in microphone will not work.

SPECIFICATIONS

Dimension	65mm X 30mm X 12mm
Weight	21.6g(not included the earphone)
Version	3.0
Profiles	HSP, HFP, A2DP, AVRCP,SPP
R.F. Spec	Class 2
Power	Max 4dB
Sensitivity	-90dB
Range (typical)	10 meters
Built-in Battery	190mAH
Standby Current	6mA
Standby Time	50 hours
Average Talk Time	10 hours
Operating Temp. Range	-15° C to +50° C

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

IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

SUPPORT AND WARRANTY

MobilitySound Radio Products warrants this product against defects in materials or workmanship for a period of **one year** from the date of retail purchase. **MobilitySound** will repair or replace a defective unit, at our option, without charge for parts or labor. The limited warranty is extended only to the original purchaser. It does not cover damage or failure caused by or attributable to Acts of God, abuse, misuse, improper or abnormal usage, faulty installation, improper maintenance, lightning, or other incidences of excessive voltage, or any tampering or repairs by other than a **MobilitySound** authorized repair facility. It does not cover replacement of consumable parts, transportation costs, or damage in transit.

Repair or replacement under the terms of this warranty does not extend the terms of this warranty. This warranty can only be modified by an officer of **MobilitySound** Radio Products, and then only in writing. Should this product prove defective in workmanship or material, the consumer's sole remedies shall be such repair or replacement as provided by the terms of this warranty. Under no circumstances shall **MobilitySound** Radio Products be liable for any loss or damage, direct, consequential, or incidental, arising out of the use of or inability to use this product. Some states do not allow limitations on how long an implied warranty lasts or the exclusions or limitations of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights. You may also have other rights, which may vary, from country to country.

For support or warranty service on your **MobilitySound** product, visit us on the web at <http://www.MobilitySound.com>

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DISCLAIMER: The Bluetooth wireless link used by **MobilitySound** products is an open standard, unsecured technology. As such, it is not recommended for first-responder or other mission critical users.