



## Blu-Comm™ Bluetooth® Adaptors User Guide

### For Motorola and Kenwood portable radios

The Blu-Comm™ Adaptor allows you to use a compatible wireless headset or other audio accessory with your two-way radio.



#### 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.

# Controls and Connection

## Quick Disconnect Accessory Port

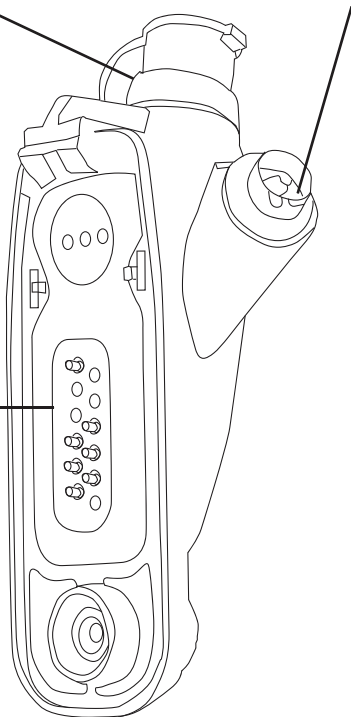
Allows the connection of a QD series wired audio accessory, such as a Push-to-Talk, earphone, or auxiliary microphone.

## Multi-Function Talk Switch / Status LED

Used to place the Blu-Comm Adaptor in pairing mode. The LED flashes messages that let the user know the current status of the Blu-Comm Adaptor. Once paired with an audio accessory, this switch is used to activate the Push-To-Talk function of the two-way radio.

## Radio Connector

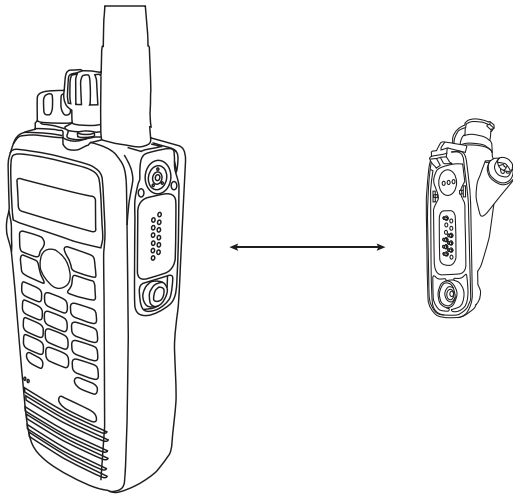
This port connects the Blu-Comm Adaptor to a compatible two-way radio.



## QUICK START

1. Connect the Blu-Comm Adaptor to a compatible two-way radio.
2. Pair the Blu-Comm Adaptor with a compatible wireless audio accessory.
3. Connect a wired audio or PTT accessory to the Quick-Disconnect accessory port on the Blu-Comm Adaptor (optional).
4. Test and use.

## Connecting the Adaptor to Radio



### STEP ONE: Connecting to Two-Way Radio

To connect your Blu-Comm Adaptor to a two-way radio, follow these steps:

- \* Always turn off your two-way radio before connecting the Blu-Comm Adaptor.
- \* Plug the Blu-Comm Adaptor into the speaker-microphone / audio accessory jack of your two-way radio.
- \* On some models of two-way radio, you may need to tighten a retaining screw to ensure that the Blu-Comm Adaptor remains attached to the radio.
- \* Turn on your two-way radio. Because no wireless audio accessory will yet be paired to the Blu-Comm Adaptor, received signals should be muted.
- \* The Talk button on the Blu-Comm Adaptor will function as a Push-to-Talk button. However the internal microphone in your portable radio will be disabled as long as the Blu-Comm Adaptor is attached. Mic audio will be muted until a wireless audio accessory is successfully paired to the adaptor, or a wired audio accessory with a microphone is plugged into the Quick-Disconnect port.

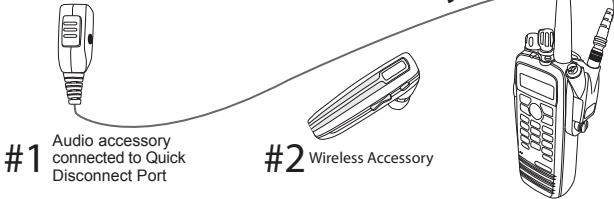
## Pairing With an Audio Accessory



### **STEP TWO: Pairing with an Audio Accessory**

- \* Turn off the radio that the Blu-Comm Adaptor is connected to. Wait at least three seconds.
- \* Turn the radio on while holding down the Talk button on the Blu-Comm Adaptor.
- \* Continue to hold the Talk button down for approximately three seconds. Release the Talk button when the status LED begins to flash two times per second.
- \* The Blu-Comm Adaptor is now in audio accessory pairing mode. Activate the pairing mode on your compatible wireless audio accessory.
- \* Once the wireless audio accessory and Blu-Comm Adaptor are paired with each other, the status LED on the adaptor will show a constant blue light for three seconds.
- \* If the Blu-Comm Adaptor does not detect a compatible wireless accessory within 60 seconds of being put into pairing mode, the adaptor will exit the pairing mode and resume normal operation.
- \* Once successfully paired, you will be able to operate your two-way radio using your compatible wireless accessory.

# Communications Priority



The Blu-Comm Adaptor will mute both the internal microphone and speaker of your portable radio if no wireless audio accessory is paired with the device and no wired audio accessory is connected to the QuickDisconnect port. You should detach the Blu-Comm Adaptor from the radio when no audio accessory is in use.

## STEP FOUR: Transmit and Receive Operation

The Blu-Comm Adaptor will automatically route radio calls based on the following priority:

- \* If an audio accessory is connected to the Quick-Disconnect Port of the Blu-Comm Adaptor radio calls will be routed to this accessory.
- \* If no wired accessory is connected, calls will be routed to a wireless accessory, if one is paired with the Blu-Comm Adaptor.
- \* If no wireless headset or audio accessory is paired to the Blu-Comm Adaptor or the wireless accessory is turned off, received calls will be muted and will not be heard as long as the Blu-Comm Adaptor is attached to the radio..

**NOTE:** When a new accessory is connected, paired, disconnected, or powered off, it may take several seconds for the audio from received radio calls to be routed appropriately.

Push-to-Talk can be activated by any of the following methods:

- \* Pressing and holding the Talk button of the Blu-Comm Adaptor
- \* Using the PTT button on a wired Quick-Disconnect accessory (if one is connected to the Blu-Comm Adaptor)

When transmitting, the operator's voice is picked-up by:

- \* The microphone in the wired-audio accessory connected to the Quick-Disconnect port on the Blu-Comm Adaptor.
- \* If no audio accessory is paired with the Blu-Comm Adaptor, or the paired wireless audio accessory is turned off, the internal microphone in the attached two-way radio will be muted as long as the Blu-Comm Adaptor is attached to the radio.
- \* If no audio accessory is paired with the Blu-Comm Adaptor, or the paired wireless audio accessory is turned off, the internal microphone in the attached two-way radio will be used.

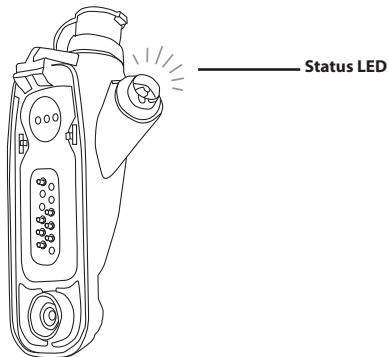
**NOTE:** Your adaptor may mute your two way radio's speaker, causing incoming calls to be missed, in any of the following situations:

- \* The adaptor is attached to the two-way radio and no wireless headset or wired accessory is paired
- \* Your wireless headset is turned off or runs out of battery power
- \* Your wireless headset goes out of range of the Blu-Comm Adaptor
- \* Local interference causes the Blu-Comm Adaptor and the wireless headset to lose pairing

## STATUS LED MESSAGES

The meanings of the various status LED messages shown by the Blu-Comm Adaptor are shown on the following table:

LED INDICATION	MEANING
One flash per minute	Normal operation
Two flashes per minute	Audio accessory pairing mode active
One long flash for three seconds	Successfully paired or re-paired
No indication	Radio is turned off



## TROUBLESHOOTING

### ***My wireless audio accessory will not pair with the Adaptor.***

Follow the instructions to place the Blu-Comm Adaptor into the correct pairing mode and then activate the pairing mode on the accessory. Make sure that the Blu-Comm Adaptor and accessory being paired are within one meter of each other.

### ***My wireless audio accessory or worked before, but is not working now.***

Make sure that the Blu-Comm Adaptor is properly connected to the two-way radio and that the radio is turned on. Ensure that your wireless audio accessory has a fully charged battery and is turned on. If the devices will still not work, re-pair the Blu-Comm Adaptor to the wireless accessories.

### ***My radio shows "Keyloader" on the LCD when I press the Talk button of the Adaptor.***

When you press the talk key with no wireless headset paired, the radio believes a keyloader is attached to the radio. Disable the keyloader function in the radio's programming software or pair a wireless accessory with the adaptor.

**DISCLAIMER:** The wireless link used by Blu-Comm products is an open standard, unsecured technology. Additionally, this product can mute the portable radios internal speaker and microphone if used with no wireless or wired audio accessory connected. This product is not recommended for first-responder or other mission critical users.

The Kenwood series works with 4-digit models, i.e. TK-3180, but not 3-digit models.

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