

## 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.

### RF Exposure Warning!

This device contains transmitters and receivers which emit Radio Frequency (RF) energy. The device is designed to comply with the limits for exposure to RF energy set by the Federal Communications Commission (FCC) of the United States, Industry Canada (IC) of Canada, and the regulating entities of other countries.

If you are still concerned about exposure to RF energy, you can further limit your exposure by limiting the amount of time you use the equipment or by placing more distance between your body and the device, since exposure level drops off dramatically with distance.

# PRYME®

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2

# PRYME®

## PRYMEBLU BTH-550 Wireless Bluetooth Speaker Microphone

For use with PRYMEBLU radio adapters and Icom and Kenwood radios with built-in Bluetooth



Model No.: BTH-550  
Made in Taiwan

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## Controls and Connection

### Accessory Jack

This jack is used to connect an optional, wired listen-only earphone or audio accessory to the speaker microphone for enhanced privacy. Any standard 3.5mm mono or stereo listen-only earphone can be plugged into this jack. Received calls will be heard over the earphone.

This jack can also be used with a 3.5 mm 4-conductor (Apple iPhone compatible) audio accessory that contains both an earphone and a microphone such as Apple part numbers ME186LL/A, or MD827LL/A. (Not included.) When used with such an accessory, received calls can be heard over the accessory earphones and transmit audio will be taken from the accessory microphone.

### PTT Button

This button is used to activate the push-to-talk feature of the 2-way radio.

### Front Firing Speaker

Received calls are heard over this speaker. The volume level can be controlled using either the Volume/Power Knob buttons on the speaker microphone, or by using the volume controls on the two-way radio or phone.

### Charge Jack

This mini-USB jack is used to recharge the removable battery of the speaker microphone by connecting the BTH-550 to a USB charger or any powered USB source.



### Pairing Button

This button is used to place the BTH-550 microphone into pairing mode so it can be connected to Bluetooth adapter or two-way radio.

### Volume Control/Power Knob

This knob allows you to turn the BTH-550 microphone on and off and to adjust the volume of received calls.

### Status LEDs

The red and blue LEDs flash messages that let the user know the current status of the speaker microphone.

### Microphone

This microphone picks up the user's voice audio when sending a call.

### Replaceable Clothing Clip

The alligator-type clip secures the speaker microphone to the user's clothing during use. The clip can be rotated to allow the microphone to be better positioned.



3

## Charging the Speaker Microphone

The BTH-550 speaker microphone 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 up to 40 hours of continuous 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.

The microphone can be charged either using the wall charger (not included) or optional drop-in charging cradle. (not included. part number P-CHA-550)

### To charge the speaker microphone using the wall charger:

1. Ensure the microphone is turned off using the Power/Volume Knob. The microphone cannot be operated while plugged into the wall charger.
2. Plug the charge cable into any powered USB outlet, such as an AC wall charger, and then into the charge jack on the bottom of the speaker microphone.
3. Once the charging process has begun, the LED indicator on the speaker microphone will show a constant red light.
4. Typical charge time is approximately five hours. Actual charge time will vary depending on several factors including the battery's charge state, condition, and age.
5. When the battery is fully charged the LED indicator on the speaker microphone will turn off.
6. Disconnect the charger from the adapter when charging is completed.

### To charge the speaker microphone using the optional drop-in charging cradle:

1. Plug the power cable for the charge cradle into any powered USB outlet, such as an AC wall adapter and then into the jack on the back of the charge cradle. The LED on the charge cradle will light a solid green.
2. Drop the microphone into the charge cradle. NOTE that you may continue to operate the microphone while it is in the charge cradle.
3. Once the charging process has begun, the LED indicator on the charge cradle will show a constant red light.
4. Typical charge time is approximately five hours. Actual charge time will vary depending on several factors including whether you are operating the microphone during charging as well as the battery's charge state, condition, and age.
5. When the battery is fully charged the LED indicator on the charge cradle will turn green.

Optional Charger  
Part No. P-CHA-DT1



### Charging Cautions:

- Do not use a charger or charge cable that appears to be damaged. (Example: frayed wires, melted plastic, etc.) Contact PRYME to get a new manufacturer-approved replacement charger.
- Do not tamper with or modify the speaker microphone or charger.
- Always turn the speaker microphone off when charging.

4

## Pairing with a PRYMEBLU Radio Adapter or 2-way Radio



When pairing the PRYMEBLU Speaker Microphone with a PRYMEBLU Radio Adapter or an Icom or Kenwood radio, make sure that the Speaker Microphone is powered off to start.

- Power the Microphone ON using the Volume Knob.
- Then, press and hold the Pairing Button. Continue to hold the button down for approximately 3 seconds, until you see the LED on the speaker microphone begin to quickly flash RED-BLUE-RED-BLUE in sequence. The PRYMEBLU Speaker Microphone is now in pairing mode.
- If you are pairing the microphone to a PRYMEBLU adapter, place the adapter into pairing mode following the instructions in the user's manual for that device. Typically, this is done by holding down the PTT button on the adapter while powering the adapter or attached two-way radio on and then continuing to hold the PTT button down until the LED on the adapter flashes two times per second.
- If you are pairing the microphone with an Icom or Kenwood two-way radio, follow the manufacturer's instructions to have the radio scan for nearby headset devices. Once it finishes scanning, select the PRYMEBLU microphone from the list of nearby devices.
- After a few seconds, the two devices should sync to one another. Once the PRYMEBLU Speaker Microphone and adapter/radio are paired with each other the status LED on Speaker Microphone will then show one FLASH every few seconds.
- If a PRYMEBLU Radio Adapter does not detect the Speaker Microphone within 60 seconds of being put into pairing mode, the adapter will exit the pairing mode and resume normal operation.
- Once successfully paired, you will be able to operate your 2-way radio using the PRYMEBLU Speaker Mic.

## Reconnecting a Previously Speaker Microphone and Radio Adapter

Once the PRYMEBLU Speaker Microphone and Radio Adapter have been successfully paired together, both devices will remember that connection. The adapter and speaker mic will attempt to reestablish their link whenever the radio/adapter and microphone are both powered on and in within range of each other. Re-establishing this connection can take 10-60 seconds.

5

## Connecting an Audio Accessory to the BTH-550 Speaker Microphone

For enhanced privacy, the PRYMEBLU BTH-550 speaker microphone may be used with a listen-only earphone or another compatible audio accessory that includes an earphone and a microphone. However, many different optional wired audio accessories are also available.

### To connect an audio accessory to the BTH-550 speaker microphone:

1. Plug the audio accessory into the 3.5 mm audio jack located on the top of the PRYMEBLU BTH-550 speaker microphone. Make sure that the connector on the audio accessory is pushed all the way into the jack on the speaker microphone.
2. You can adjust the volume of received signals by using the Volume Up and Volume Down buttons on the speaker microphone or by adjusting the volume setting on the cellphone.

### Optional Audio Accessories:

The 3.5 mm audio jack on the speaker mic will accept any stereo earphone with a 3.5 mm audio plug. You can also use any 3.5 mm 4-conductor (Apple iPhone compatible) audio accessory that includes both an earphone and a microphone, such as Apple part numbers ME186LL/A, or MD827LL/A (not included). If the audio accessory has a built-in microphone, transmit audio will be taken from the accessory microphone.

PRYME makes a variety of listen-only earphones and accessory microphones in different styles that will work with the BTH-550:

MODEL	TYPE	STYLE
EH-11895C	Listen-only	Ear Bud Earphone
EH-13995C Recon™	Listen-only	Acoustic Tube Earphone
EH-30995C Bullet	Listen-only	Bullet Transducer Acoustic Tube Earphone
EH-GH995C G-Hook	Listen-only	G-Hook Swivel Earphone
SPM-499D Ranger™	Mic+Earphone	Boom Mic Headset with D-Ring Earphone
SPM-1599 Gladiator™	Mic+Earphone	Throat Mic Headset with Acoustic Tube Earphone
SPM-899B Highway™	Mic+Earphone	Motorcycle Helmet Boom Mic Kit

## WIRELESS AUXILIARY PTT CAPABILITY

The BTH-550 can also be used with an optional wireless Bluetooth PTT button along with the Bluetooth speaker microphone. This upgrade and PTT button are sold separately. Contact PRYME or your PRYME dealer for more information.



## OPTIONAL - SOLD SEPARATELY

BT-PTT-Z BT-PTT-ZU-FOB BT-PTT-ZU-RING BT-PTT-ZU-STRAP

7

## Using the PRYMEBLU Speaker Microphone

Once your PRYMEBLU Speaker Microphone and PRYMEBLU Adapter or radio have been paired together:

Received signals will be heard over your PRYMEBLU Speaker Microphone's front-firing speaker or through the optional earphone. The volume of received calls can be adjusted using the Volume/Power Knob on the speaker microphone or the volume control on the two-way radio or cellphone.

When transmitting or on a phone call, the operator's voice is picked-up by the microphone in the PRYMEBLU Speaker Microphone.

Push-to-Talk can be activated one of several different ways:

- By pressing and holding the PTT button on the PRYMEBLU Speaker Microphone.
- By pressing and holding the Talk button on the PRYMEBLU Adapter.
- Using an optional wired PTT that is plugged into the PRYMEBLU Adapter.

## STATUS LED MESSAGES

The meanings of the various status LED messages shown by the speaker microphone are shown on the following table:

LED INDICATION	MEANING
Constant Red (while plugged into charger)	Charge mode
No indication (while plugged into charger)	Charging is finished
Flashes red-blue-red-blue repeatedly	Pairing mode
Two blue flashes every two seconds	Speaker microphone is powered on but not paired
One blue flash every two seconds	Speaker Microphone is powered and paired
No indication	Speaker microphone is powered off

## SPECIFICATIONS

Bluetooth Version:	4.1, fully qualified
Speaker Output:	2 watts
Receiver Sensitivity:	-82 dBm (typ.)
Power Class:	Bluetooth class 2
Range:	10 meters
Display:	Blue, Red, and Green
Bluetooth Profile:	HFP, BLE Profile
Operating Voltage:	5 VDC
Battery Capacity:	1,020 mAh
Operating Time (Standby)	> 30 days
Operating Time (Typical)	> 80 hours
Operating Time (Continuous Talk)	> 40 hours
Push-to-Talk Function:	Built-in
Operating Temperature:	-70°F to +120°F (approx.)

6

## SUPPORT AND WARRANTY

PRYME Radio Products warrants this product against defects in materials or workmanship for a period of one year from the date of retail purchase. PRYME 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 and is valid only to consumers in the United States and Canada. 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 PRYME 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 PRYME 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 PRYME 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 state to state.

For support or warranty service on your PRYME product, contact us at 1-800-666-2654 or visit us on the web at [www.PRYME.com](http://www.PRYME.com).

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Android is a trademark of Google Inc.

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

8