

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.

1.00-HA JANUARY 2025

2

PRYME®

911 Mariner St., Brea, CA 92821
PH: 714.257.0300 FAX: 714.257.0500
TOLL FREE: 800.666.2654
WWW.PRYME.COM

PRYME®

PRYME® BTH-550-HA Wireless Speaker Microphone

For use with Harris two-way radios with built-in BT.



Optional Cradle Charger
Part No. P-CHA-550

Model No. BTH-550-HA
Made in Taiwan

© 2026 PRYME Radio Products, Brea CA. All Rights Reserved

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 two-way radio.

Front Firing Speaker

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

Charge Jack

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

Keep the rubber cover in place when the jack is not being used.



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



Pairing Button
This button is used to place the microphone into pairing mode so it can be connected to a radio via BT.

Volume Control/Power Knob
This knob allows you to turn the BTH-550-HA microphone on and off and to adjust the volume of received calls.

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.



Charging the Speaker Microphone

The BTH-550-HA 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.

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.

Pairing with a Harris Two-Way Radio

When pairing the PRYME Speaker Microphone with a Harris Two-Way radio, make sure that the Speaker Microphone is powered off to start.



- Activate the pairing mode on the speaker microphone by turning it on using the Volume/Power Knob and then pressing and holding the Pairing Button for three seconds, until the LED flashes BLUE-RED-BLUE-RED continuously in sequence.
- Follow the instructions provided by Harris to have the radio scan for nearby headset devices. Once it finishes scanning, select BTW-PTT from the list of nearby devices.
- After a few seconds, the two devices should sync to one another. Once the PRYME Speaker Microphone and Radio are paired with each other the status LED on the Speaker Microphone will then show one FLASH every few seconds.
- Once successfully paired, you will be able to operate your 2-way radio using the PRYME Speaker Mic.

Reconnecting a Previously Paired Speaker Microphone and Harris Two-Way Radio

Once the PRYME Speaker Microphone and radio have been successfully paired together, both devices will remember that connection. The radio and Speaker Mic will attempt to re-establish their link whenever the devices are both powered on and in within range of each other. Re-establishing this connection can take 10-60 seconds.

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
One blue flash every three seconds	Speaker microphone is powered on but not paired
One blue flash every three seconds	Speaker Microphone is powered and paired
No indication	Speaker microphone is powered off

5

Using the Speaker Microphone

Once your PRYMEBLU Speaker Microphone and 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 up/down button on the Speaker Microphone or the volume control on the two-way radio.

When transmitting, 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 PTT button on the side of the two-way radio, depending on how the radio is programmed.

SPECIFICATIONS

BT Version:	Version 4.1 fully qualified
Weight:	130 g
Speaker Output:	2-watts
Receiver Sensitivity:	-83 dBm (typical)
Power Class:	BT class 2
Range:	10 meters
Display:	Blue and Red LEDs
BT Profiles:	HSP / HFP / A2DP / AVRCP
Operating Voltage:	5 Vdc @ 25 mA (Average)
Battery Capacity:	1000mAH, not replaceable
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.)

Connecting an Audio Accessory to the BTW-550-HA Speaker Microphone

For enhanced privacy, the PRYME BTW-550-HA 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 BTW-550-HA speaker microphone:

- Plug the audio accessory into the 3.5 mm audio jack located on the top of the PRYME BTW-550-HA speaker microphone. Make sure that the connector on the audio accessory is pushed all the way into the jack on the speaker microphone.
- 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 BTW-550-HA:

MODEL	TYPE	STYLE
EH-1189SC	Listen-only	Ear Bud Earphone
EH-1399SC Recon™	Listen-only	Acoustic Tube Earphone
EH-3099SC 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

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.

COPYRIGHT AND TRADEMARK INFO

© 2026 PRYME Radio Products, Brea CA. All rights reserved.

PRYME® and PRYMEBLU® are trademarks owned by PRYME Radio Products, Brea CA.

Harris is a trademark of L3Harris Corporation.

All other product or service names are the property of their respective owners.

DISCLAIMER: The BT 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.