

# PRYME®

## PRYMEBLU® BTH-700/800/900 Bluetooth Dual Muff Headsets

The BTH-700/800/900 are Bluetooth Muff Headsets designed for use with a PRYMEBLU Bluetooth adapter and a two-way radio (each sold separately)



BTH-800-OHB SHOWN

PRYMEBLU BTH-700-HMB  
PRYMEBLU BTH-800-OHB  
PRYMEBLU BTH-900-EMB  
Made in Taiwan

PRYME® and PRYMEBLU® are trademarks owned by PRYME Radio Products, Brea CA. All other product or service names are the property of their respective owners. © 2018 PRYME Radio Products, Brea CA. All Rights Reserved

### 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.

# PRYME®

911 Mariner St, Brea, CA 92821  
PH: 714.257.0300 FAX: 714.257.0600  
TOLL FREE: 800.666.2654  
WWW.PRYME.COM

Version 1.00 FEBRUARY 2016

## CHARGING THE HEADSET

The PRYMEBLU Muff Headset has an internal Lithium Ion rechargeable battery pack which must be charged prior to operation. A fully charged battery will provide approximately 10 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.

### To charge the PRYMEBLU Headset:

1. Ensure the PRYMEBLU Headset is turned off using the Power Button.
2. Plug the supplied wall charger into a standard 120 volt AC outlet.
3. Plug the charge cable into the AC wall charger and then into the charge jack on the Headset. You will need to remove the protective rubber cover that is inserted into the charge jack. (To prevent dust and moisture from damaging your Headset, always ensure this cover is in place when you are not charging the Headset.)
4. Once the charging process has begun, the LED indicator on the Headset will show a continuous red light. When the battery is done charging, the LED light will turn off.
5. Typical charge time is approximately 4 hours. Actual charge time will vary depending on several factors including the battery's charge state, condition, and age.
6. Disconnect the charger from the lapel mic when charging is completed.

### Charging Cautions:

- Use only the wall charger supplied by the manufacturer. Do not use any other charger.
- Do not use a wall charger 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 Headset or charger.
- Always turn the power switch to the off position when charging the Headset.

P-CBL-USB-MICRO charger cable and P-CHA-BT-USB wall charger included with the Headset.



## Controls and Connections

### HEADBAND / HELMET MOUNTING CLIPS

Depending on the model, the headset may be furnished with mounting clips for attaching to a hard hat (SPM-700-HMB), an over-the-head band (SPM-800-OHB) or a behind-the-head band (SPM-900-EMB).



BTH-700



BTH-800



BTH-900

### PUSH-TO-TALK BUTTON

When the Headset is paired with a PRYMEBLU Bluetooth adapter, holding this button down activates the Push-to-Talk radio feature of the two-way radio.



The PTT button on the BTH-900 is different than the BTH-700 and BTH-800.

**VOLUME UP/DOWN BUTTONS**  
These buttons are used to adjust the volume level of received calls heard through the Headset.

**MUFF EARPHONES**  
Received calls are heard through these Headset speakers.

### USB CHARGE JACK

This micro-USB jack is used to connect the supplied charge cable to the Headset in order to recharge the device's internal lithium-ion battery pack.

### POWER BUTTON / STATUS LED

Pressing this button for one second turns the PRYMEBLU Muff Headset on or off. This button is also used to place the Headset in pairing mode so that it can be connected wirelessly to a PRYMEBLU adapter or a cellular telephone. The status LED behind the button flashes messages that let the user know the current status of the device. For a complete list of LED messages, see pg 6.

### PHONE BUTTON

When the Headset is paired with a cellular telephone, this button can be used to manage telephone functions such as answering or hanging up a call.

### ADJUSTABLE BOOM MICROPHONE

The Muff Headset boom microphone picks up the user's voice audio to send over-the-air.

## PAIRING THE HEADSET WITH A PRYMEBLU ADAPTER OR CELLULAR TELEPHONE

Before you can use the PRYMEBLU Muff Headset, it must be paired with the PRYMEBLU Bluetooth adapter and/or cellular telephone that you wish to use.



### To pair the Headset with a PRYMEBLU Bluetooth radio adapter:

1. Begin by first making sure that the Headset, PRYMEBLU radio adapter, and the two-way radio the adapter is connected to are all powered off. You should also power off any nearby Bluetooth devices.
2. Place the PRYMEBLU radio adapter into pairing mode by following the instructions that were provided with that device. On most PRYMEBLU adapters this is done by pressing and holding the PTT/Multifunction button on the adapter while turning the two-way radio on. Continue to hold the button down until the LED indicator on the adapter shows two blue flashes every second.
3. Press and hold down the Power Button on the PRYMEBLU Muff Headset for five seconds, until the LED on the Headset flashes RED-BLUE-RED-BLUE continuously in sequence. The Headset is now in pairing mode.
4. After a few seconds, the two devices should synch to one another. Once the Headset and PRYMEBLU radio adapter are paired with each other the status LED on the adapter will show a constant blue light for three seconds. The LEDs on both the adapter and Headset will then show one blue flash every few seconds.
5. If the PRYMEBLU radio adapter does not detect the Headset within 60 seconds of being put into pairing mode, the adapter will exit the pairing mode and resume normal operation without synching to the .
6. Once successfully paired, you will be able to operate your 2-way radio using the PRYMEBLU Muff Headset.

### To pair the Muff Headset with a cellular telephone:

The PRYMEBLU headset is capable of working with a Bluetooth-enabled cellular telephone. The Headset is even capable of simultaneously pairing with both a PRYMEBLU Bluetooth radio adapter and a cell phone, enabling you to use the same Headset for both radio and telephone calls.

1. When pairing the Headset with a cellular phone, first make sure that the headset and all other nearby Bluetooth devices are powered off before beginning.
2. Press and hold down the Power Button on the headset for five seconds, until the LED on the adapter flashes RED-BLUE-RED-BLUE continuously in sequence. The headset Headset is now in pairing mode.
3. Activate the Bluetooth feature on your phone.
4. Activate the "scan/discover new Bluetooth devices" feature on the phone. The exact steps needed to do this will vary depending on the brand/model of phone you are using.
5. Select the Headset from the list of Bluetooth devices shown on your phone. If the phone asks for a passcode, enter "0000". The phone may also prompt you to confirm the connection.
6. After a few seconds, the two devices should synch to one another. Once the PRYMEBLU Headset and phone are paired with each other, the status LED on the microphone will revert back to a single blue flash every few seconds.
7. Once successfully paired, you will be able to make and receive telephone calls using the Headset.

### Reconnecting a Previously Paired Headset and Radio Adapter/Cellular Phone

Once the PRYMEBLU Muff Headset and Bluetooth radio adapter and/or cellular telephone have been successfully paired together, both devices will remember that connection. The Headset and radio adapter/phone will attempt to reestablish their link whenever they are both powered on and in within range of each other. Re-establishing this connection can take 10-60 seconds.

### Multi-Pairing Operation

If you wish to use the multi-pairing feature to connect the Headset to both a PRYMEBLU Bluetooth radio adapter and a cellular phone, you must first separately pair both the Headset with the radio adapter and the Headset with the phone using the procedures shown above.

Once the two devices have been paired individually to the Headset, simply power the both the Headset and two-way radio/Bluetooth radio adapter on, and then enable the Bluetooth feature on the phone. Within a few seconds, all three devices should connect to each other, enabling operation.

**NOTE:** When you are on a phone call, signals received by the two-way radio will not be heard. Additionally, if you press the PTT button on the PRYMEBLU headset while you are on a phone call, the two-way radio will transmit, however no transmit audio will be sent over the air, since microphone audio is being routed to the cellular phone.

### TESTING AND USING THE PRYMEBLU MUFF HEADSET

Once your Headset and PRYMEBLU radio adapter and/or cellular phone have been paired together:

Received signals will be heard through the speakers in the PRYMEBLU Muff Headset. The volume of received calls can be adjusted using the Volume Up and Volume Down buttons on the Headset or the volume control on the two-way radio or cellular phone.

The operator's voice is picked-up by the boom microphone in the PRYMEBLU Muff Headset.

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

- By pressing and holding the PTT button on the PRYMEBLU Muff Headset.
- By pressing and holding the Talk/Multifunction button on the PRYMEBLU Adapter.
- Using an optional wired PTT that is plugged into the PRYMEBLU Adapter.
- Using an optional PRYMEBLU Wireless Bluetooth PTT (model BT-PTT2, sold separately). Note that if you are using a PRYMEBLU BT-PTT2, you will first need to pair the radio adapter with the PTT using the instructions located in the PRYMEBLU PTT User's Guide.

### Telephone functions are provided by using the Headset's Phone Button.

Call State	Button Press	Function
Incoming call	Press Phone Button once	Answer call
Incoming call	Press and hold Phone Button for 5 seconds	Reject call
On a call	Press Phone Button once	Hang up call
No call	Double press Phone Button	Redial last number

*Continued on next page*

You can also activate your phone's voice dialing feature by pressing and holding the Phone Button on the side of the Headset for three seconds. (This function works only when the microphone is NOT also connected to a two-way radio.)

When the Headset is paired to a MP3 music player or to a cellular phone only, the following buttons are remapped for playing music.

Button Press	Function
Phone Button	Play/Pause Music
Volume Up	Adjust music volume up
Volume Down	Adjust music volume down
Double-press Volume Up	Skip to next track
Double-press Volume Down	Skip to previous track

### STATUS LED MESSAGES

The meanings of the various status LED messages shown by the PRYMEBLU Muff Headset are shown on the following table:

LED INDICATION	MESSAGE MEANING
No indication	Device is off
Blue-Red-Blue-Red continuous	Pairing mode
Two short blue flashes	Device turned on
Three red flashes, then off	Device turned off
One blue flash every 2 seconds	Not paired or link lost
One blue flash every 6 seconds	Normal (paired) operation
Continuous red when PTT pressed	PTT operation
One red flash every 6 seconds	Low battery
Continuous red (when connected to charger)	Charging
No indication (when connected to charger)	Charging is finished

### SPECIFICATIONS

Dimensions:	220mm X 130mm X 90mm (SPM-700-HMB, SPM-800-OHB)
	240mm X 230mm X 160mm (SPM-900-EMB)
Weight:	350 grams (SPM-700-HMB, SPM-800-OHB)
	410 grams (SPM-900-EMB)
Bluetooth Version:	3.0
Bluetooth Profiles:	HSP, HFP, A2DP, AVRCP
Bluetooth Power Class:	Class 2
Sensitivity:	-90 dB
Range (Typical):	10 meters (30 feet)
Built-in Battery:	3.7V, 330mAh Lithium-Ion
Standby Current Draw:	6 mA
Standby Time:	50 hours (max)
Operating Time:	10 hours (max)
Operating Temperature Range:	-15° C to + 50° C

### 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).

### COPYRIGHT and TRADEMARK INFO

© 2018 PRYME Radio Products, Brea CA. All rights reserved.

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

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

**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.