# PRYME® PRYMEMAX™

**PRYMEMAX™ BTH-700-MAX/800-MAX/900-MAX Wireless Dual Muff Headsets**

PRYMEMAX BTH-700-HMx-MAX
PRYMEMAX BTH-800-OHx-MAX
PRYMEMAX BTH-900-EMx-MAX

Made in Taiwan

BTH-800-OHB-MAX SHOWN

## 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®

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# 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-HMx-MAX), an over-the-head band (SPM-800-OHx-MAX) or a behind-the-head band (SPM-900-EMx-MAX).

BTH-700-MAX   BTH-800-MAX   BTH-900-MAX

**PUSH-TO-TALK BUTTON**
Pressing and holding this button down activates the Push-to-Talk feature of the two-way radio or PoC app.

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

**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 to recharge the device's internal lithium-ion battery pack.

**POWER BUTTON / STATUS LED**
Pressing and holding this button for one second turns the PRYMEMAX 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, two-way radio, or a cellular telephone. The status LED behind the button flashes messages that let the user know the status of the device. For a complete list of LED messages, see page 6.

**PHONE BUTTON**
If 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.

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## CHARGING THE HEADSET

The PRYMEMAX 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 PRYMEMAX 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.**

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## PAIRING WITH A SMARTPHONE OR TWO-WAY RADIO

The PRYMEMAX headset is designed to work with PRYMEBLU wireless adapters, two-way radios with internal BT made by BK, Icom, and Kenwood as well as smartphone and tablets running either the Android or Apple iOS operating systems. Prior to normal operation, the handset and headset must be paired together using the following process:

1. With the headset powered off, activate the pairing mode by pressing and holding the Power button until the status LED flashes BLUE-RED-BLUE-RED continuously in sequence.
2. If pairing with a PRYMEBLU adapter, place the adapter into pairing mode following the instructions in the device's manual. Then proceed to step 5.
3. If you are pairing the microphone with a two-way radio, follow the manufacturer's instructions to have the radio scan for nearby headset devices. Once it finishes scanning, select the device named "BTH-PTT" from the list of nearby devices. Then proceed to step 5.
4. If you are pairing the microphone with a smartphone, make sure that the smartphone's BT slider is turned on and then use the phone's BT menu to scan for nearby devices. Select the device named "BTH-PTT" to pair with the phone then proceed to step 5.
5. Keep the radio or handset and headset near each other and wait a few seconds. The devices will pair to each other.

NOTE that on some Kenwood radios you may hear a ring tone. If so, press the Phone Answer button on the headset to confirm that pairing.

**Reconnecting a Previously Paired Headset and Phone**
Once the headset and handset have been successfully paired together, both devices will remember that connection. They will reestablish their link whenever the headset and handset are both powered on and within range of each other, as long as the BT radio is enabled in the handset. Re-establishing this connection can take 10-60 seconds.

If the handset and headset to not automatically reestablish their link, simply press the handset button on the PRYMEMAX headset to restore the connection.

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**Setting Up the Headset with your PTT App**

If you are using the headset with a PTT Over Cellular app on an IOS or Android smartphone, you may need to complete some additional setup within the app itself. Once setup, you will be able to use the headset with the push-to-talk app, even if the app is running the background.

Please see insert for instructions on how to set up the PTT button in Zello, Wave or ES Chat.

**Testing and Using Your Headset**

Once your Headset and two-way radio or smartphone have been paired together:
-To activate the two-way radio or PoC app's Push-to-Talk feature, press and hold the PTT button on the headset.
-When transmitting a call, audio will be picked up from the PRYMEMAX headset's built-in microphone.
-Incoming calls will be heard over the PRYMEMAX headset's built-in muff speakers

**Making and Receiving Phone Calls**

You can also use the headset to make and receive phone calls if the headset is paired with a cellular phone.
-You can initiate a phone call by using the Phone Dialer app in the phone.
-Phone audio will be routed to the PRYMEMAX headset's built-in microphone and speakers
-To answer an incoming call, press the Phone button on the headset.

**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 |

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.

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 headset are shown on the following table:

| LED INDICATION | MESSAGE 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 | Headset is powered on but not paired |
| One blue flash every three seconds | Headset is powered and paired |
| No indication | Headset is powered off |

**SPECIFICATIONS**

| BT Version: | Version 4.1 fully qualified |
|---|---|
| Dimensions: | 220mm X 130mm X 90mm (SPM-700-HMx-MAX, SPM-800-OHx-MAX) |
| | 240mm X 230mm X 160mm (SPM-900-EMx-MAX) |
| Weight: | 350 grams (SPM-700-HMx-MAX, SPM-800-OHx-MAX) |
| | 410 grams (SPM-900-EMx-MAX) |
| 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: | 3.7V, 330mAH, internal |
| Operating Time (Standby): | > 15 days |
| Operating Time (Typical): | > 50 hours |
| Operating Time (Continuous Talk): | > 10 hours |
| Push-to-Talk Function: | Built-in |
| Operating Temperature: | -70°F to +120°F (approx.) |

**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.

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WAVE and WAVE COMMUNICATOR are trademarks of Twisted Pair Solutions, a wholly owned subsidiary of Motorola Solutions, Inc.
ZELLO is a trademark of Zello, Inc..
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.

# App Setup (ZELLO)

To get the Zello app on your phone, install Zello from your Zello@Work network, or download the app from the Google Play store or Apple App Store

### Setting up Zello (Android)

1. Make sure that your phone's BT radio is enabled, and that the headset is powered on and that the microphone and phone are connected to each other.

2. Open Zello and go to Menu > Options > Under the Hood.

3. Under "BT PTT Control," choose "BTH-PTT". You should see a popup indicating the device control has been activated. If you don't see it, you may need to power cycle the headset and repeat this step.

4. Open the Talk screen in Zello (the screen with a big round button). In the bottom-left corner of the screen, tap-hold and slide to the BT icon to activate the headset in Zello.
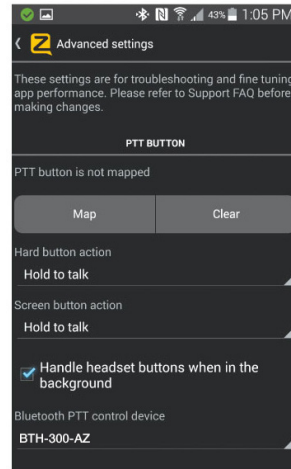


### Setting up Zello (iOS)

1. Make sure that your phone's BT radio is enabled, and that the headset is powered on and that the microphone and phone are connected to each other.

2. Open Zello and go to: Settings > PTT Button > Wireless Zello Button.

3. Make sure that the "Wireless Button Service" is turned on by sliding the button to the right.

4. Press and hold the PTT button on the PRYMEMAX headset.

5. Select "PTT-Z" from the list of PTT devices shown on the screen.

6. Open the Talk screen in Zello (the screen with a big round button). Pressing the PTT button on the headset should now cause Zello to transmit.
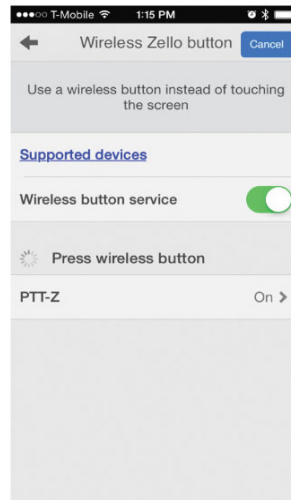


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# App Setup (Wave Communicator)

To get the WAVE Communicator app on your phone, download the app from the Google Play store or Apple App Store.

For Android phones the PTT function of the BTH-300-MAX can be enabled to work with the Wave Communicator app in one of two different ways, either using Serial Port Protocol (SPP) over conventional BT or using a special version of BT called BT Low Energy (BLE). The BLE option can only be used with handsets that have hardware support for BLE and are using Android version 5.0 (Lollipop) or newer. Choose the option that is right for your phone and follow the instructions below:

### Setting up WAVE Communicator (Android-SPP)



1. Make sure that your phone's BT radio is enabled, and that the headset is powered on and that the microphone and phone are connected (paired) to each other.
2. Open WAVE Communicator and log in using your username and password.
3. Tap on the More Options symbol ":" in the top right hand corner of the app and then tap "App Settings."
4. Make sure that "Use BT Device for PTT" is selected. If it isn't, tap it to select it.
5. Tap on "BT Device to Use" and then select "BTH-PTT" from the list.
6. The app will then prompt you to press the PTT button on the PRYMEMAX headset to confirm that the setup was successful.
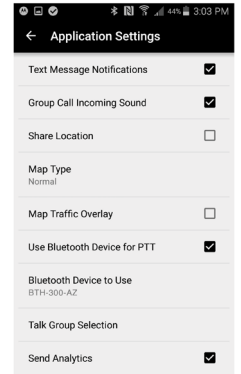
### Setting up WAVE Communicator (Android - BT Low Energy)

1. Make sure that your phone's BT radio is enabled, and that the headset is powered on and that the microphone and phone are connected (paired) to each other.
2. Press and hold the PTT button on the PRYMEMAX headset lapel microphone.
3. On your phone, go to Settings > BT. Select "Search for Devices" from the phone's BT menu. The phone will scan for nearby BT devices and a list showing the names of nearby BT devices will be shown on the screen.
4. Choose "PTT-Z" from the list.
5. Keep the phone and speaker mic near each other and wait a few seconds. The devices will pair to each other.
6. Open WAVE Communicator and log in using your username and password.
7. Tap on the More Options symbol ":" in the top right hand corner of the app and then tap "App Settings."
8. Make sure that "Use BT Device for PTT" is selected. If it isn't, tap it to select it.
9. Tap on "BT Device to Use" and then select "PTT-Z" from the list.
10. Release the PTT button on the PRYMEMAX headset.

### Setting up WAVE Communicator (iOS)

1. Make sure that your phone's BT radio is enabled, and that the lapel microphone is powered on and that the microphone and phone are connected (paired) to each other.
2. Open WAVE Communicator and log in using your username and password.
3. Tap on the More Options symbol ":" in the top right hand corner of the app and then tap "App Settings."
4. Press and hold the PTT button on the PRYMEMAX headset.
5. Make sure that "Use BT Device for PTT" is selected. If it isn't, tap it to select it.
6. Tap on "BT Device to Use" and then select "PTT-Z" from the list.
7. Release the PTT button on the PRYMEMAX headset.

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