

# PRYME®

## RADIO PRODUCTS

### PRYMEBLU® BTH-300 Bluetooth Microphone Kit

The BTH-300 is a wireless lapel microphone kit designed for use with a PRYMEBLU Bluetooth adapter and a two-way radio (each sold separately)



KIT 1 SHOWN

PRYMEBLU BTH-300

Made in Taiwan

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#### 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.

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### CHARGING the BTH-300 LAPEL MICROPHONE

The PRYMEBLU BTH-300 lapel microphone 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 BTH-300 lapel microphone:

1. Ensure the PRYMEBLU Lapel Microphone 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 side of the lapel microphone. You will need to remove the protective rubber cover that is inserted into the charge jack. (To prevent dust and moisture from damaging your lapel microphone, always ensure this cover is in place when you are not charging the lapel mic.)
4. Once the charging process has begun, the LED indicator on the back of the PRYMEBLU Lapel Microphone 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 PRYMEBLU BTH-300 lapel microphone or charger.
- Always turn the power switch to the o-ff position when charging the PRYMEBLU Lapel Microphone.

**P-CBL-BT-USB charger cable and P-CHA-BT-USB wall charger included with BTH-300.**



## Controls and Connection

#### BUILT-IN MICROPHONE

When the BTH-300 is used with a listen-only earphone, this microphone picks up the user's voice audio to send over-the-air. When an accessory containing a microphone is used, the internal microphone is muted.



#### STATUS LED

The status LED flashes messages that let the user know the current status of the device. For a complete list of the LED messages, see page 7.

#### PUSH-TO-TALK BUTTON

When the PRYMEBLU BTH-300 lapel microphone is paired with a PRYMEBLU Bluetooth adapter, holding this button down activates the Push-to-Talk feature of the two-way radio.

#### PHONE BUTTON

When the BTH-300 is paired with a cellular telephone, this button can be used to manage telephone functions such as answering or hanging up a call.

**EARPHONE/AUDIO ACCESSORY**  
PRYME EH-1189SC shown. Other earphones/ audio accessories are listed below.



#### EARPHONE/ACCESSORY JACK

Any standard 3.5 mm 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.

#### POWER BUTTON

Pressing this button for one second turns the PRYMEBLU BTH-300 lapel microphone on or off. This button is also used to place the lapel microphone in pairing mode so that it can be connected wirelessly to a PRYMEBLU adapter or a cellular telephone.

#### VOLUME UP/DOWN BUTTONS

These buttons can be used to set the volume level of the earphone connected to the BTH-300's Earphone/Accessory Jack.

#### USB CHARGE JACK

This micro-USB jack is used to connect the supplied charge cable to the BTH-300 in order to recharge the device's internal lithium-ion battery pack.

#### CLOTHING CLIP

The alligator-type clip secures the PRYMEBLU BTH-300 lapel microphone to the user's clothing during use. The clip can be rotated to allow the mic to be better positioned.



### CONNECTING AN AUDIO ACCESSORY TO THE BTH-300 LAPEL MICROPHONE

The PRYMEBLU BTH-300 lapel microphone 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.

In order to be able to hear incoming signals received by the two-way radio or cellular phone, the PRYMEBLU BTH-300 lapel microphone must be used with a wired audio accessory that includes an earphone. A PRYME EH-1189SC ear bud-style earphone is included with the lapel microphone kit. However, many different optional wired audio accessories are also available.

#### To connect an audio accessory to the BTH-300 lapel microphone:

1. Plug the audio accessory into the 3.5 mm audio jack located on the top of the PRYMEBLU BTH-300 lapel microphone. Make sure that the connector on the audio accessory is pushed all the way into the jack on the lapel microphone.
2. You can adjust the volume of received signals by using the Volume Up and Volume Down buttons on the lapel microphone or by adjusting the volume setting on the radio or cellular telephone.

#### Optional Audio Accessories:

Although the BTH-300 KIT 1 includes a PRYME ear bud-style earphone, it is possible to use a different audio accessory, if you wish. The 3.5 mm audio jack on the lapel mic will accept any mono or 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-300:

KIT	MODEL	TYPE	STYLE
BTH-300 KIT 1	EH-1189SC	Listen-only	Ear Bud Earphone
BTH-300 KIT 2	EH-1399SC Recon™	Listen-only	Acoustic Tube Earphone
BTH-300 KIT 3	EH-3099SC Bullet™	Listen-only	Bullet Transducer Acoustic Tube Earphone
BTH-300 KIT 4	EH-GH99SC G-Hook™	Listen-only	G-hook Swivel Earphone
BTH-300 KIT 5	SPM-499D Ranger™	Mic+Earphone	Boom Mic Headset with D-ring Earphone
BTH-300 KIT 6	SPM-1599 Gladiator™	Mic+Earphone	Throat Mic Headset with Acoustic Tube Earphone
BTH-300 KIT 7	SPM-899B Highway™	Mic+Earphone	Motorcycle Helmet Boom Mic Kit

## PAIRING THE BTH-300 LAPEL MICROPHONE WITH A PRYMEBLU ADAPTER OR CELLULAR TELEPHONE

Before you can use the PRYMEBLU BTH-300, it must be paired with the PRYMEBLU Bluetooth adapter and/or cellular telephone that you wish to use with the lapel microphone.



### To pair the BTH-300 lapel microphone with a PRYMEBLU Bluetooth radio adapter:

1. Begin by first making sure that the BTH-300, 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 BTH-300 for five seconds, until the LED on the adapter flashes RED-BLUE-RED-BLUE continuously in sequence. The BTH-300 lapel microphone is now in pairing mode.
4. After a few seconds, the two devices should synch to one another. Once the BTH-300 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 lapel microphone will then show one blue flash every few seconds.
5. If the PRYMEBLU radio adapter does not detect the lapel microphone within 60 seconds of being put into pairing mode, the adapter will exit the pairing mode and resume normal operation without synching to the BTH-300.
6. Once successfully paired, you will be able to operate your 2-way radio using the PRYMEBLU BTH-300 lapel microphone.

### To pair the BTH-300 lapel microphone with a cellular telephone:

The PRYMEBLU BTH-300 is capable of working with a Bluetooth-enabled cellular telephone. The lapel microphone is even capable of simultaneously pairing with both a PRYMEBLU Bluetooth radio adapter and a cell phone, enabling you to use the same lapel microphone for both radio and telephone calls.

1. When pairing the lapel microphone with a cellular phone, first make sure that the BTH-300 and all other nearby Bluetooth devices are powered off before beginning.
2. Press and hold down the Power Button on the BTH-300 for five seconds, until the LED on the adapter flashes RED-BLUE-RED-BLUE continuously in sequence. The BTH-300 lapel microphone 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 PRYMEBLU BTH-300 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 lapel microphone 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 PRYMEBLU BTH-300 lapel microphone.

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

NOTE: If you are using a wired accessory with phone control buttons (such as Apple ME186LL/A) with the BTH-300, the phone control buttons on the accessory will NOT function and should not be pressed.

When the BTH-300 lapel microphone 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 BTH-300 lapel microphone 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:	65 x 30 x 12 mm
Weight:	22 grams (excluding earphone)
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, 190 mAh 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

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### Reconnecting a Previously Paired Lapel Microphone and Radio Adapter/Cellular Phone

Once the PRYMEBLU BTH-300 lapel microphone and Bluetooth radio adapter and/or cellular telephone have been successfully paired together, both devices will remember that connection. The lapel microphone 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 BTH-300 to both a PRYMEBLU Bluetooth radio adapter and a cellular phone, you must first separately pair both the BTH-300 with the radio adapter and the BTH-300 with the phone using the procedures shown above.

Once the two devices have been paired individually to BTH-300, simply power the both the BTH-300 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 Speaker Microphone 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 BTH-300 LAPEL MICROPHONE

Once your PRYMEBLU BTH-300 lapel microphone and PRYMEBLU radio adapter and/or cellular phone have been paired together:

Received signals will be heard through the earphone that is plugged into your BTH-300 lapel microphone. The volume of received calls can be adjusted using the Volume Up and Volume Down buttons on the lapel microphone or the volume control on the two-way radio or cellular phone.

As long as you are using a listen-only earphone, when transmitting or on a phone call, the operator's voice is picked-up by the microphone in the PRYMEBLU lapel microphone. If you are using a wired accessory with a built-in microphone, the accessory microphone will be used instead.

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

- By pressing and holding the PTT button on the PRYMEBLU BTH-300 lapel microphone.
- 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 BTH-300'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

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Continued on next page

## 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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