

# PRYME®

## PRYMEBLU® BTH-300-VOX BT Microphone Kit

For use with the Vocoder Push-to-Talk apps on both Apple iOS and Android smartphones.



KIT 1 SHOWN

### PRYMEBLU BTH-300-VOX

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. © 2021 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 2.00-VOX FEBRUARY 2021

## CHARGING THE BTH-300-VOX LAPEL MICROPHONE

The PRYMEBLU BTH-300-VOX 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-VOX 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-VOX lapel microphone or charger.
- Always turn the power switch to the off position when charging the PRYMEBLU Lapel Microphone.

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



## Controls and Connection

### BUILT-IN MICROPHONE

When the BTH-300-VOX 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.



TOP VIEW

### 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

This button is used to activate the push-to-talk feature of the PTT app.

### PHONE BUTTON

This button can be used to manage telephone functions such as answering or hanging up a call.



### 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-VOX 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 cellphone.

### VOLUME UP/DOWN BUTTONS

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

### USB CHARGE JACK

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

### CLOTHING CLIP

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



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



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

In order to be able to hear incoming signals received by the cellphone, the PRYMEBLU BTH-300-VOX 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-VOX lapel microphone:

1. Plug the audio accessory into the 3.5 mm audio jack located on the top of the PRYMEBLU BTH-300-VOX 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 cellphone.

### Optional Audio Accessories:

Although the BTH-300-VOX 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-VOX:

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

## Pairing with a Smartphone

The BTH-300-VOX lapel microphone is designed to work with smartphones running either the Android or Apple iOS operating systems, and can be used for both normal cellphone calls (top button) or to activate VOXER PTT (side button.) Prior to normal operation, the phone and lapel microphone must be paired together using the following process:



### FOR ANDROID AND iOS

1. Activate the pairing mode on the lapel microphone by holding down the PTT Button while turning the microphone on with the Power/Volume Knob. Continue to hold the PTT Button down until the status LED flashes BLUE-RED-BLUE-RED continuously in sequence.
2. On your phone, go to Settings > BT. Move the BT slider to turn the phone's BT radio on.
3. 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 "BTH-300-PTT" from the list.
5. Keep the phone and lapel mic near each other and wait a few seconds. The devices will pair to each other.

### FOR iOS ONLY

iOS handsets require a second BT pairing in order for the Push-to-Talk button on the BTH-300-VOX to work. After completing steps 1-5 above, continue with the following steps:

6. Press and then release the PTT button on the BTH-300-VOX. Another BT device named "PTT-VOXER" will appear in the list of available BT devices on your phone's BT screen.
7. Tap on "PTT-VOXER" to pair it with your phone. A dialog will appear asking you to confirm the pairing.
8. Tap to confirm the pairing.

### Reconnecting a Previously Paired Lapel Microphone and Phone

Once the lapel microphone and phone have been successfully paired together, both devices will remember that connection. They will reestablish their link whenever the lapel microphone and phone are both powered on and within range of each other, as long as the BT radio is enabled in the phone. Re-establishing this connection can take 10-60 seconds.

In the event that the phone and lapel microphone do not automatically reestablish their link, simply press the phone button on the BTH-300-VOX to restore the connection.

5

## Using the Lapel Microphone with the Voxer App

After pairing the BTH-300-VOX to your handset, you must setup the app to work with the PTT button on the microphone.

1. Go to the Settings > Preferences screen of the VOXER app.
2. Drag the slider to enable BT.
3. Make sure that your BT device is selected. For Android choose "BTH-300-PTT." For iOS chose "PTT-VOXER."

6

### STATUS LED MESSAGES

The meanings of the various status LED messages shown by the PRYMEBLU BTH-300-VOX 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)
BT Version:	3.0
BT Profiles:	HSP, HFP, A2DP, AVRCP
BT 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

7

### 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

© 2021 PRYME Radio Products, Brea CA. All rights reserved.

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

Android is a trademark of Google Inc.

Apple is a trademark of Apple Inc.

iOS is a trademark of Cisco Systems and is used by Apple Inc. under license.

VOXER is a registered trademark of Voxer IP, LLC.

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.

8