

**blackbox**<sup>®</sup>  
IOT GLOBAL RADIOS



# USER GUIDE

**GLOBAL WIFI/SIM IoT  
RADIO WITH  
PUSH-TO-TALK.**

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IT'S  
WHAT  
WE DO.**

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# Setting up your device onto your Wifi and/or SIM card:

## WiFi Setup:

1. Press and hold large knob on the top to power the device on (and off).
2. Wait for the splashscreen to launch.
  - a. You will then be taken to a home screen that has two rows labeled as follows:
    - One is labeled "PTT"
    - The other is labeled "Setting"
3. Each device must connect to a network before they function.
4. Choose Setting using the arrows to scroll and OK to select.
  - Choose WLAN
  - Choose available WLANS
  - Choose your Wifi network that appears
  - Press OK when the cursor is on the password line to bring up the keyboard on the screen.
  - Enter your wifi password

**NOTE:** To enable additional characters you may need to enter a particular password (ie. !, \*, #, etc.), to do so, the bottom side button (#2) needs to be pressed and held for 3-4 seconds and once released, will bring up another virtual keyboard with new characters.

  - Once you enter the password, press OK (Look on the upper right part of the screen for signal strength).
  - Press the HOME button
5. Now your screen should say "PTT". Select OK for PTT and you will see your available groups.
  - Use the arrows to scroll and ok button to select

Now you just need to press the PTT button on the side, and you will see LED and UI indicate that the channel is open to talk.

## SIM Card Setup:

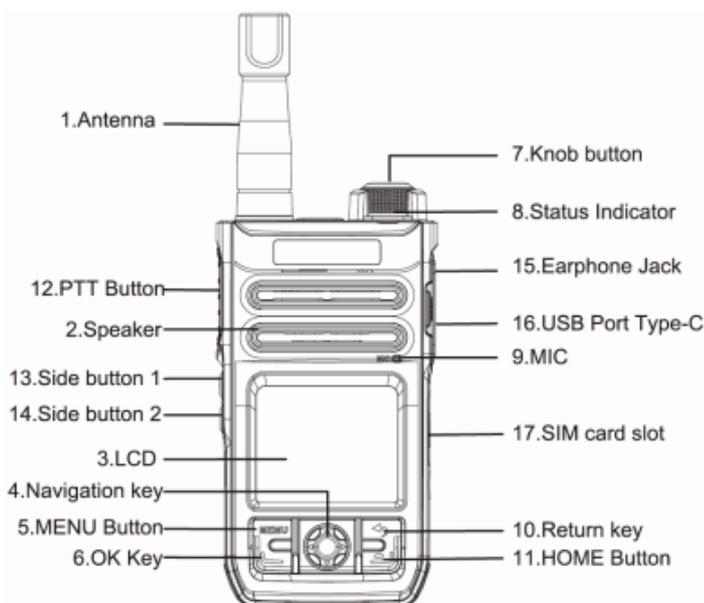
**NOTE:** For SIM card usage, insert SIM and it should automatically show "4G" on upper right corner of screen.



## Charging the Battery

Charge the battery with the specified charger and charge the battery as follows:

1. Insert the Type-C plug of the switching power supply into the Type-C jack on the right side of the radio.
2. When the radio is turned on, connect the power supply to the AC power output socket. You can see that the radio status indicator (LED) turns red and flashes slowly, indicating that the power supply is normally connected; when the status indicator (LED) turns from red to green light and flashes slowly, it means fully charged (The battery capacity is above 90%).
3. When the radio is switched off, connect the power supply to the AC power output socket. Firstly, the screen will light up and display the battery capacity icon. You can also see the radio status indicator (LED) turns stable red light, which means the power supply is normally connected; when the radio status indicator (LED) turns from red to a stable green light it indicates fully charged (The battery capacity is above 90%).



Parts	Function
1.Antenna	LTE 4G main antenna
2.Speaker	Electrical signal is converted into acoustic signal
3.LCD	Display User interface
4.Navigation key	In standby, you can select the application on the interface.
5.MENU Button	Enter menu
6.OK Key	Confirm button
7. Knob button (Volume button/Long press to Switch it On/Off)	Press and hold the button for 3 seconds to On/Off, rotate the knob clockwise to increase volume, rotate counterclockwise to decrease volume. <b>Note:</b> To wake up the screen, short tap the power button.
8 Status Indicator	View product specifications in detail
9.MIC	Convert audio signal to electric signal
10.Return key	Return to the previous menu, no effect under the main menu; During Voice call mode, short press to exit.
11.HOME Button	Press to return to the main menu on any page(except the main menu)
12.PTT Button	To trigger and release call: Press to talk and release to finish.
13.Side button 1	Short press to continuously broadcast the current group, current user. Long press to enter one key alarm.
14.Side button 2	Short press to switch groups. Long press to change the keyboard.
15.Earphone Jack	3.5mm
16.USB Port Type-C	Used to connect to computer PC software or to charge
17.SIM card slot	Micro SIM

## **Remove the battery**

1. To remove the battery pack, push the battery latch-up.
2. When the battery is released from the terminal, remove the battery.

## **Basic Operation**

### **Power On and Power Off**

Press and hold the knob button for 3 seconds until power ON. To power OFF, press and hold the button. A window will pop up on the display, choose "Power OFF" and press ok to power OFF the radio.

### **Display On**

Short press the knob to wake up the display.

### **Status Bar**

The status bar displays battery capacity, time, SIM card, registered network status information, etc.

### **Push-To-Talk function**

After the start-up, the radio will automatically enter the default Group.

### **Dynamic PTT - What is it?**

**This locks you into one other person. Nobody else can communicate with either of you until you "hang up" or wait 15 seconds of no conversation (which automatically hangs up the connection).**

On the PTT screen, press DOWN ARROW on the navigation panel to enter the group lists, long press OK key to enter the Group Member list.

Under the group member list, you can select the person who you want to call. Press the PTT button to start the Dynamic PTT. Press the PTT button to talk and release PTT to listen. Press OK key to hang up. Dynamic PTT will also end automatically after 15 seconds if there is no conversation.

### **Group Change**

On the PTT screen, press DOWN on the navigation panel to enter the Group list. After choosing the desired group, press OK key to change group.

### **Short cut: Group Change**

Short pressing the side button 2 to change to the desired group and there will be a voice announcement on the Group name. At the same time, the group becomes a Current group - Press PTT to start talking.

### **Emergency Alarm (SOS)**

Note: This function would be invalid if the Dispatch Console did not register an alarm number to the radio ID. Press and hold the side button 1 for 3 seconds to activate the SOS function.

### **Enter the APK settings**

On the PTT screen, press UP on the navigation panel. It will display SETTING which can be used to check personal information OR change voice call settings/sleep mode/PTT incoming call options/Dynamic PTT options/PTT to activate screen settings.

### **ROM settings**

Short press the MENU button to enter the ROM setup menu, you can set the network set, WLAN, BT, Location, Boot sound, phone status, etc.

Establish a wireless connection

Setup the WLAN connect.

**Medical Equipment (Caution):**

Care should be taken when using radio next to certain medical devices such as pacemakers. Keep a distance of at least 20 cm between the radio and these medical devices; do not put the radio in your chest pocket. Hold BBGR to the ear at the opposite side of the body where the pacemaker is implanted to reduce potential interference. If necessary, please turn off the radio. If you have any other question, please consult the medical equipment manufacture before using. Some digital radios may interfere with certain hearing aids. If these disturbances occur, contact the hearing aid manufacture for a solution. If you have any other medical equipment (such as implanted cochlea), consult with the manufacturer to ensure that these devices can shield the surrounding RF signals.

In places with special requirements such as hospitals or recuperation, please pay attention to the restrictions on the use of radios. If necessary, please turn off the radio.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.