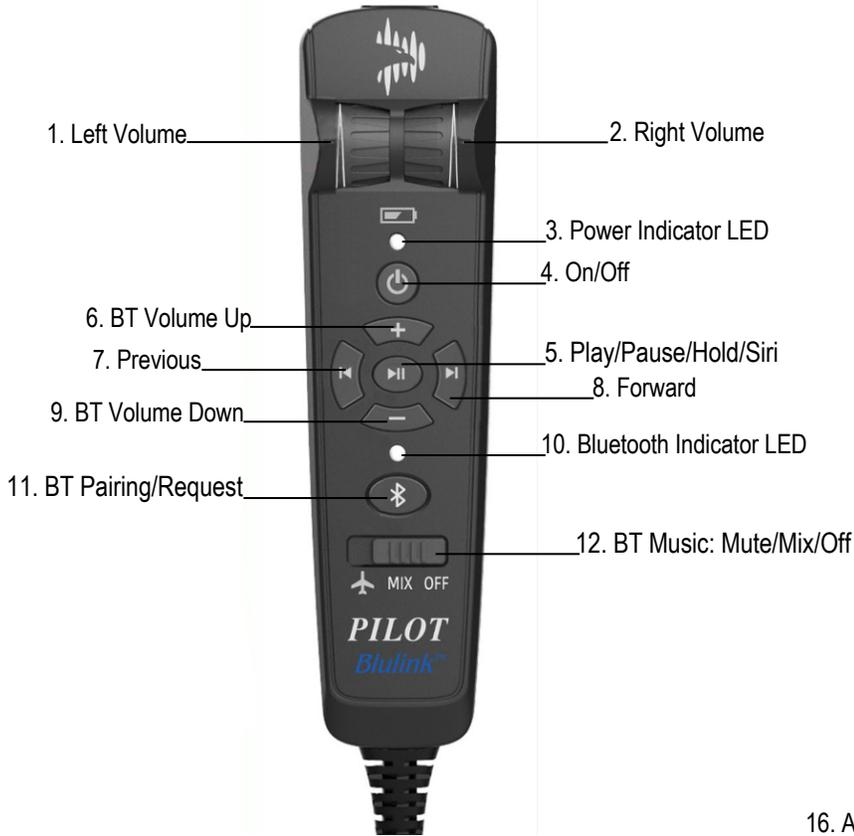


5.5 Controller Module descriptions



16. Auto Shut off (A)
Default: Off
17. Mono(M) / Stereo (S)
Default: Mono



Buttons:

- 1) Intercom volume left
- 2) Intercom volume right
- 3) Power indicator LED
- 4) Power: press to turn on
- 5) Music play/pause: click once to pause or play, (For Siri hold for 3 sec)
- 6) Bluetooth volume +
- 7) Music pre
- 8) Music next
- 9) Bluetooth volume -
- 10) Bluetooth indicator
- 11) Bluetooth hold: Bluetooth on/off, pick up, reject, hang up, redial phone call
- 12) Bluetooth Music: mute / mix / Off
- 13) REC OUT : record output
- 14) AUX input : volume is adjusted by player
- 15) USB-C power input
- 16) Mono (M) Stereo (S) default is M (inside the Battery Compartment) ;
- 17) Auto shut off (On) No auto shut off (Off) default is Off (inside the Battery Compartment)

Function

❖ Power

- Battery: two AA batteries
- Type-C (DC5-31V) : input Type-C power, the headset turned on automatically
- Power source (DC5-31V) : LEMO plug connects with airplane, headset turned on automatically

❖ Turn on / off

- Turn on: press power button 4 longer than 1 second to turn headset on, ANR starts working, if press the bottom for 3 seconds, when the headset is OFF, then the headset will be turned on and off, this is in case wrong turning on
- Turn off: press it for 1 seconds, when headset is working, then the headset is turn off

❖ Mute

- Airplane Icon: when radio signal comes in, the Bluetooth and AUX are mute gradually (Radio priority), when radio signal turned off, Bluetooth or AUX comes back gradually
- Mix: radio/intercom Bluetooth and AUX can be listen the same time ;
- Music off: only radio signal comes in, Bluetooth or AUX shut off
- ANR works at any mode

❖ Bluetooth pairing

- Bluetooth ON: Long press and hold for more than 1 second to turn on Bluetooth, system start to matching.
- Bluetooth device titled "Pilot BluLink", if ask for code the code is 0000
- Bluetooth setting :
 - **Two devices are new to headset**
 - ◆ Long press HOLD for longer than 1 second, to turn on the Bluetooth, Bluetooth indicator flashes blue light, the headset is connected
 - ◆ Bluetooth indicator flashes blue and red light, the headset is paring

- ◆ Both two devices search “Pilot BluLink” click “connect”, two devices will be connected with headset, the code is 0000
- **One is new and one is paired before**
 - ◆ First to ignore the “Pilot BluLink” from device list
 - ◆ Press more than 1 second, to turn on the Bluetooth, Bluetooth indicator flashes blue light, the headset is connected
 - ◆ Bluetooth indicator flashes blue and red light, the headset is paring
 - ◆ Both two devices search “Pilot BluLink” click “connect”, two devices will be connected with headset, the code is 0000
- **Both headsets paired before**
 - ◆ Press more than 1 second, to turn on the Bluetooth, Bluetooth indicator flashes blue light, the headset is connected
 - ◆ Bluetooth indicator flashes blue and red light, the headset is paring
 - ◆ Both two devices search “Pilot BluLink” click “connect”, two devices will be connected with headset, the code is 0000
 - ◆ Bluetooth off : Hold button for 3 seconds to shut Bluetooth off
- ❖ **Pick up phone call**
 - Short press and hold to pick up phone call.
 - Short press and hold to hang off phone call
 - Long press Hold for more than 1 second, to refuse phone call
 - Short press Hold for twice, to recall last phone call.
 - Recall device is the one first connects with headset, the second one could not redial
 - Long press HOLD to turn onSiri
- ❖ **Bluetooth volume**
 - Bluetooth + / - to turn volume up / down.
 - Long press + / - to continue volume up, there is a ‘bee’ sound with max volume, and ‘hum’ with min volume
- ❖ **Speaker volume**
 - Roll the volume button up / down to change volume. (left and right speaker volumes are separated)
- ❖ **AUX input**
 - Music player could be connected with 3.5mm cable thought AUX, volume controlled by music player.
- ❖ **Bluetooth and AUX priority**
 - Bluetooth music < AUX < Bluetooth
 - When phone call comes in, AUX is off when 3.5mm plug in AUX, Bluetooth music is off.
 - Two priority of two devices
 - One device is on phone call, one device plays music or GPS, then phone call is priority
 - Two devices play music or GPS, first in coming sound signal is priority
- ❖ **Power LED indicator**
 - Green - If it is a solid green light, it is getting voltage from Type C or LEMO
 - Green flash - the indicator light is flashing green it is getting voltage form the internal batteries.
 - Orange - if the indicator light is in ORNAGE color the voltage of the batteries is LOW
 - Red – it the indicator light is RED the voltage is so low that the unit will turn itself off very soon.
- ❖ **Bluetooth LED indicator**
 - Paired: blue light flashes
 - Pairing: blue and red flash
 - Disconnect: red flash twice
 - Connected: Blue constantly flashes

- when users make or answer phone call through headset: short blue flash
- ❖ **Auto shut off switch**
 - Switch “ON”
 - If device does not connect with intercom, headset will auto off in five minutes if there is no music if music plays, then headset will be auto off in 60 minutes. Some people forget to switch headset off when they leave airplane.
 - If it has battery in, then the battery will be gone because it is not off. So, this function is the auto-shut-off function. It is designed for when the headset is not connected to the intercom, or intercom is switched off (people leave airplane) the headset will be automatically switched off to save battery.
 - If people use it as a Bluetooth music headset when they not flying, the headset will automatically switch off in 60 min if the music is playing.
 - If the device connects with intercom, intercom on, then the device won't be off Only if the headset is connected with intercom, and intercom is on, the headset won't automatically off. (the mic should be connected)
 - Switch “OFF”
Non-auto shut off
- ❖ **Mono / Stereo**
 - Switch “S”, speaker output two tracks
 - Switch ‘M’, speaker output left track
- ❖ **Battery:**
 - Use 2 AA alkaline battery
 - Do not use new battery with old battery

Technical Specifications

6.1 Microphone

Generating Element: Condenser – Noise Canceling

Polar Pattern: Bi-Directional

Frequency Response: 150 – 4500 Hz

Impedance: 50 Ohms @ 16VDC

Sensitivity: 100 dB @ 1mW Input

Power Requirements: 8 – 16 VDC

Current Drain: 8 mA at 10 VDC

Color/Case Materials: Black ABS

Weight: 6 grams

Mating Connector: U-173/U

6.2 Transducers

Audio Speaker Impedance: 300 Ohm

Military: 19 Ohm

Nominal Power: 100 mW

Max Power: 200 mW

SPL: 106 + 2dB at 1 KHz

Effective Frequency Range: 20 Hz – 16,000 Hz

Effective DNC Frequency Range: 30 Hz – 8000 Hz

Active Noise Reduction: 18 – 22 dB at 150 Hz

Maximum Ambient Noise Level: 120 dB SPL

6.3 Enhanced Voice Intelligibility (EVI) Circuit

2 – 4 dB Gain at 500 – 1000 Hz when DNC is on SNR: Less than 58 dB