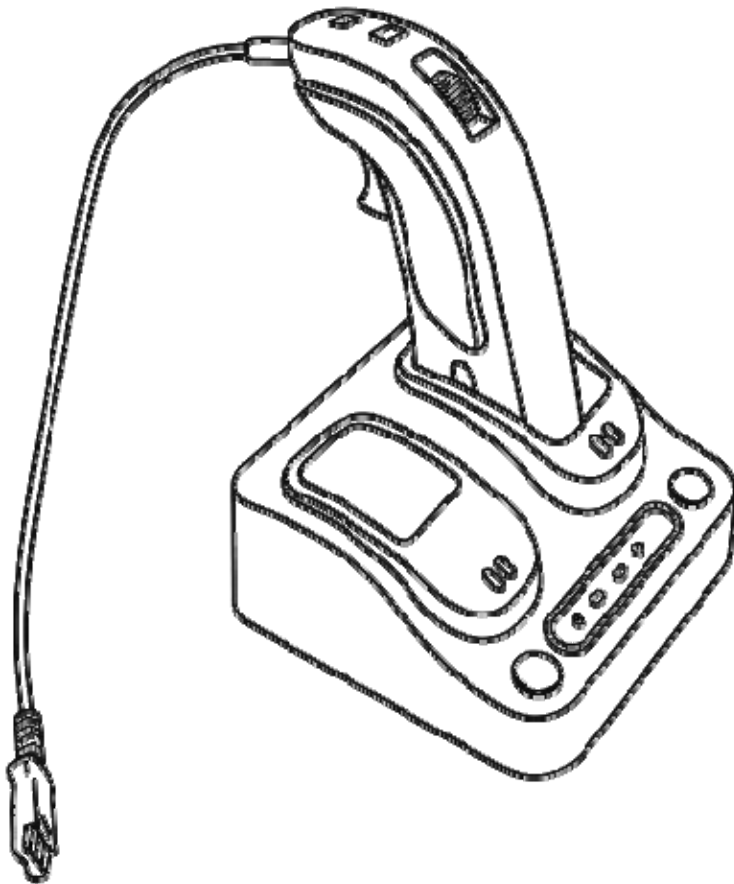




JPL Scout 3100

User's Manual

DECT PTT



The JPL Scout 3100 Wireless DECT PTT (Push-To-Talk) Headset delivers reliable wireless communication and seamless PTT functionality for public safety dispatch, air traffic control, radio operations, and simulation training. Designed for environments requiring secure transmissions, the advanced DECT wireless adapter ensures top-tier protection with DECT Security Level C. Supporting both analog and USB interfaces, the DECT PTT system offers flexible configurations for one or two independent portable devices, making it the ideal solution for mission-critical communications.

Advantages

- **Enhanced Security:** Complies with DECT Security Step C and features 256-bit AES encryption (FIPS 140-2) to ensure secure communication in sensitive environments.
- **Superior Audio Quality:** Delivers clear, reliable voice transmission with advanced DECT technology optimized specifically for voice communication.
- **Wireless Freedom:** Operates without cables, providing up to 150 ft (50 m) of range using DECT wireless technology for increased mobility and convenience.
- **Flexible Interface Support:** Analog and USB interfaces ensure broad compatibility with both analog and VoIP communication systems, as well as training simulators.



Specifications

Connects to

- Analog RJ12 female connector to 2-Plong (RJ12-to-PJ7)
- USB connectors to PC or Voice Communication Consoles (USB-C)

Wireless

- DECT 6.0-North America: 1.92 ~1.93 GHz
- DECT-Europe: 1.88 ~ 1.90 GHz
- Range (Line-of-Sight): 150 ft / 50 m
- Security: DECT Security Step C
- Encryption: Military level FIPS 140-2 listed 256-AES encryption
- Authentication: 128-bit AES

Battery

- Battery Capacity: 400 mAh
- Talk time: up to 11 Hours with Narrowband audio
- Extra battery with charging chamber
- Charge Time: Quick Charge for 2~3 hours

Receiving Frequency Response

- User selectable option for wideband and narrowband audio
- Wideband 50 ~ 7000 Hz for G.722 Codec Audio

- Sampling Frequency: 16 KHz
- Bit Rate 64 kb/s
- Narrowband 300 ~ 3,400 Hz for G.711 Codec Audio
- Sampling Frequency: 8 KHz
- 8 bits per sample
- Bit Rate 64 kb/s
- Algorithm Delay: 0.125 msec

Available Headset

- Compatible with all JPL QD type headsets
- Compatible with Poly QD type headset

Remote Unit Features

- PTT buttons
- Audio link On-Off button with LED
- Detachable Belt Clip
- Receiving volume Control
- Two Remote Unit can be used simultaneously (Option)

Base Unit Features

- Two charging chambers
- Sending and receiving volume controls
- Status LEDs for Power, Battery Charging, audio Interface, and



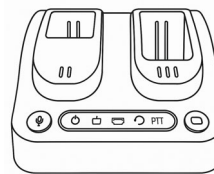
PTT

- Pairing Button
- Analog (RJ12), and USB connection ports
- Operating temperature range: 40°F(+4°C) to 110°F(+49°C)

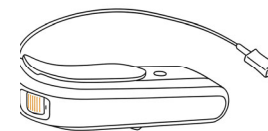
USB Enumeration

- The PTT button enumerates as following features depend on customer's demands
 - Microphone Audio PTT
 - Button 1 of a single button game controller
 - Joystick Button 1
 - Keystroke of 'p' of a keyboard
 - Keystroke of any 101 QWERT keyboard
 - Mute button pressing and releasing for USB HID telephony command.
 - Any of USB HID commands upon customer's request

What's included



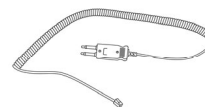
Base Station



Remote



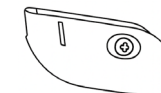
USB-C Cord



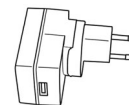
RJ12-to-PJ7 Cord



RJ12-to-RJ12 Supervisor Cord



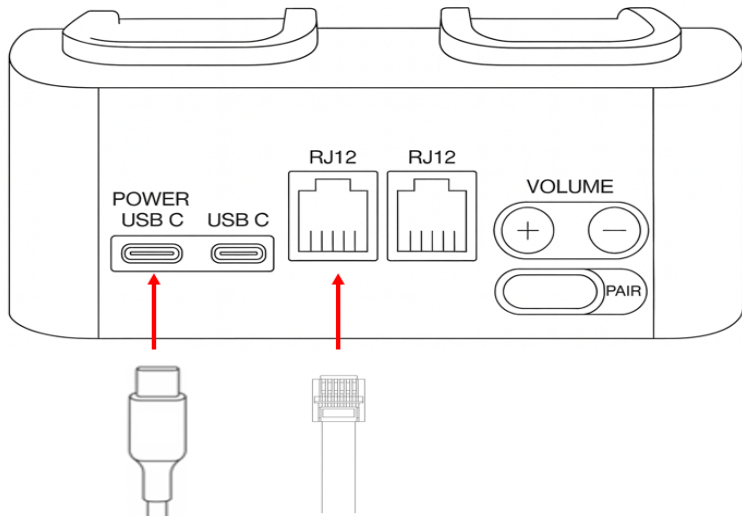
Extra Battery



USB-C Power Adapter

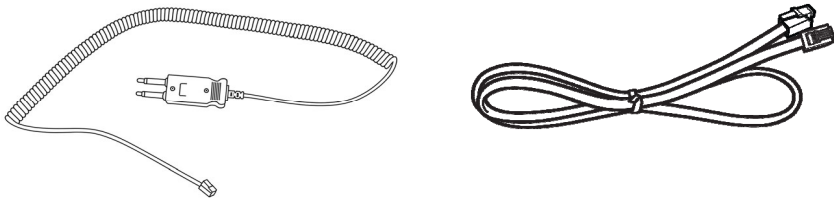


Connection



The USB-C adapter or PC's USB port can be connected to 'POWER USB C' connector for base station's power. When it is connected, the base station can be woken up and starts operation.

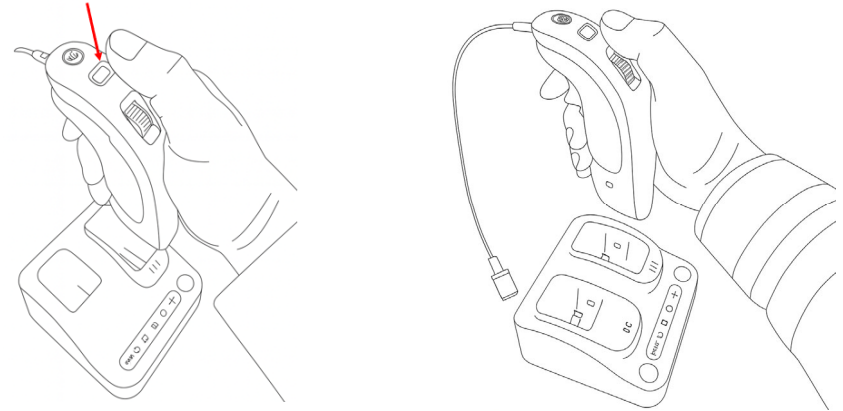
There are two RJ12 ports on rear side. One can be used for RJ2-to-PJ7 cord connection and the other can be used for RJ12-to-RJ12 supervisor cord.



Power On Remote

There are two ways to power up the remote unit

Press the in-use LED/button. And the In-user light will be on.



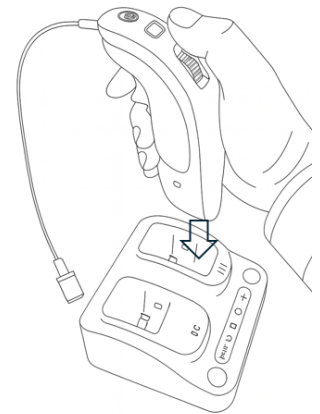
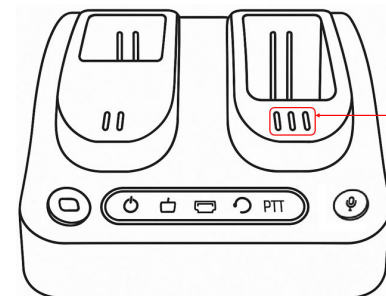
When the remote is powered off, it can be powered on if it is put on cradle.

Charging Remote

For charging remote, put it on cradle on the base station

When the remote is on charging, three battery level

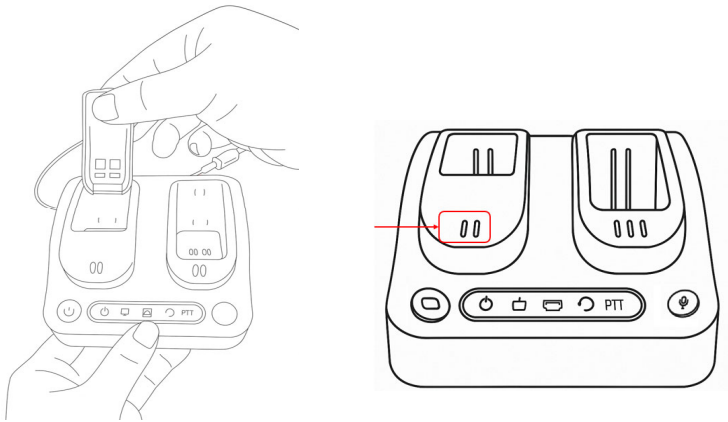
Lights will be shown to indicate battery level.





Charging extra battery and changing battery

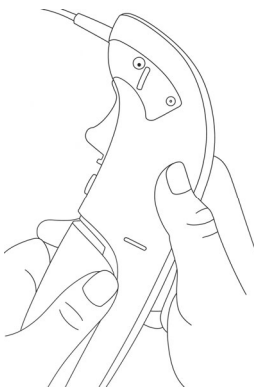
There is another charging cradle for the extra battery.
The battery itself can be charged when it is on second cradle.



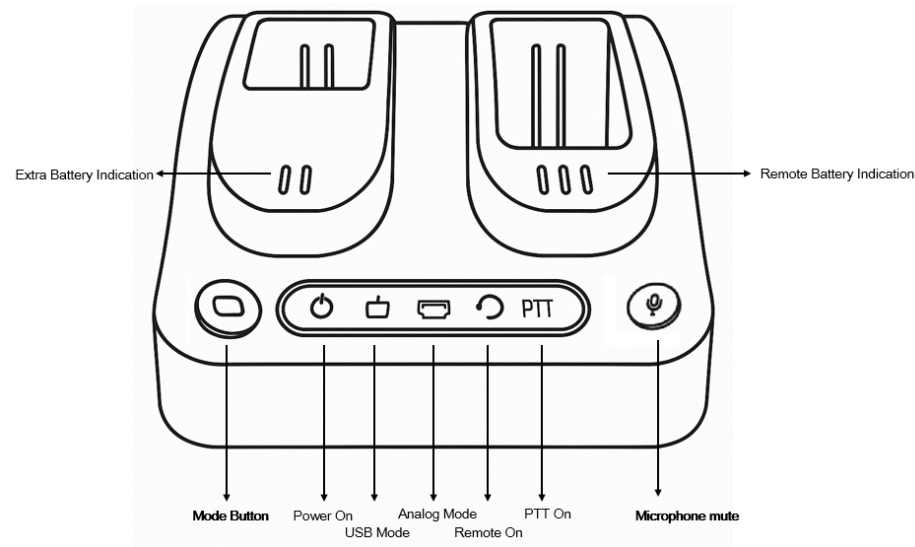
There are two battery level indicators for the extra battery charging.
When it is fully charged, two lights will be on.

The battery on the remote can be changed without any power disconnection.
There is backup battery inside of the remote and it can make the remote alive during battery exchanging.

Click on battery button and slide down the battery.
It can be removed, and the remote can be working for one
Minute for battery exchanging.



Base Unit

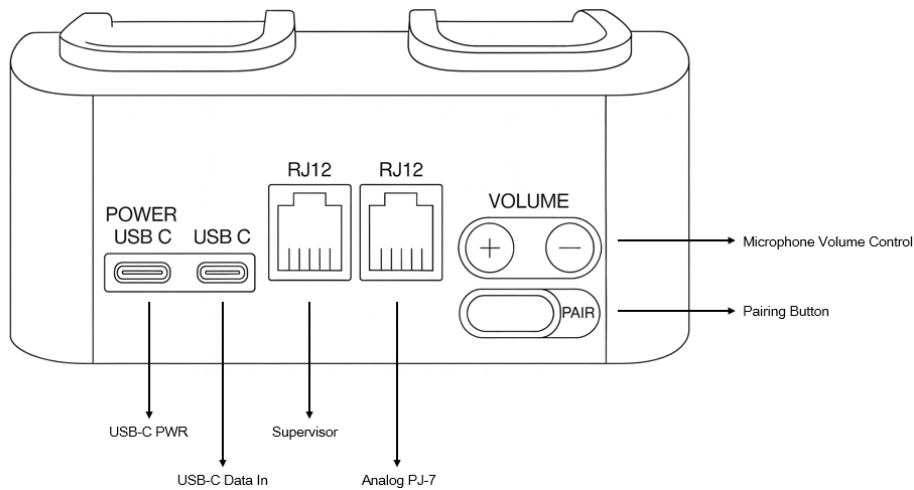


LED

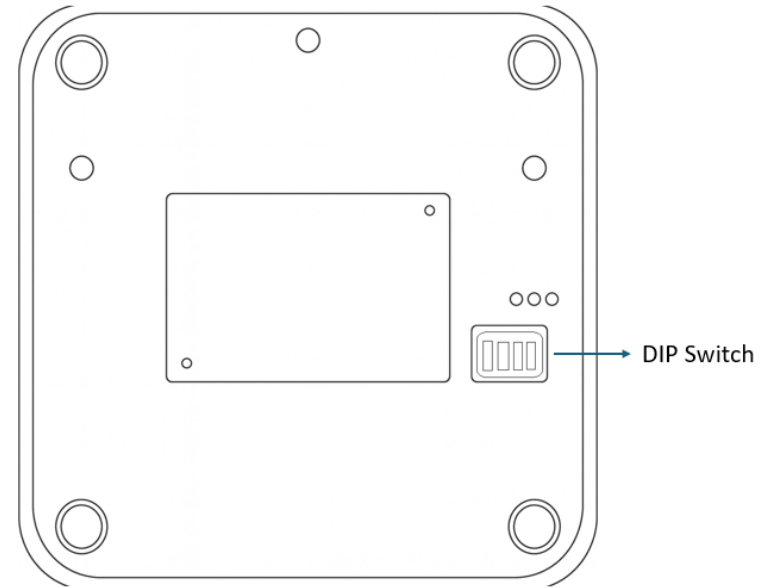
Power-On LED	When the power is on, the LED will be light on.
USB LED	When the mode is selected to USB, light on.
Analog LED	When the mode is selected to analog, light on
Remote LED	When the remote is connected to the base, light on
PTT LED	When the PTT button is pressed on the remote, light on

Button

Mode Button	When the mode button is pressed, the mode is changed from analog to USB and vice versa.
Microphone Mute	When the microphone mute button is pressed, the microphone is muted and unmuted.



Power USB-C	USB-C power can be connected to this connector
USB-C	USB-C data / power can be connected to this connector
RJ12	Both RJ12 connectors can be used for PJ-7 analog connector or supervisor cord connection
Volume	Microphone volume can be controlled with 15 steps
Pair	The pairing button can be used for pairing with the remote.



On bottom side, there are 4 pole DIP switches. The options on the DIP switch are on the table below.

DIP Switch	Function	Default
1	Gamepad Button 1 /Mic. Active	Mic. Active
2	Mode button Enable / Disable	Disable
3	Rx Volume High/Low	Low
4	Wideband / Narrowband Audio	Wideband



Visual Indicator

Battery Indicator

Full	Green / Yellow / Red LED will be turned on
Mid	Yellow / Red LED will be turned on
Low	Red LED will be turned on
Warning	Red LED will be flashing to show low battery warning

Operating Instructions

- Connect the USB-C cable to USB-C In port at base station.
- Press the In-use button to get connection to the base station
- When the In-Use LED is on, it is ready to use.
- Press the PTT button and the PTT function will be working.
- Adjust speaker and microphone volume for comfortable audio level.

Federal Communication Commission Interference Statement

FCC ID: 2BFHC-SCOUT3100

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 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.

Radiation Exposure Statement(DECT PTT BASE):

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

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Radiation Exposure Statement(DECT PTT REMOTE):

This device meets the government's requirements for exposure to radio waves.

This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard for wireless device employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg. Tests for SAR are conducted using standard operating positions (0mm) accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands.

The use of holsters and similar accessories should not contain metallic components in its assembly, the use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.