

# **HOLLYVOX**

## **Hollyvox G51 Full-Duplex ENC Wireless Intercom System**

User Manual

V2.0

# User Manual

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# Safety Precautions

For your safety, please read the following Safety Precautions before using the Hollyvox G51 to ensure its correct use:

- Do not place the device near or inside heating devices (including but not limited to microwave ovens, induction cookers, electric ovens, electric heaters, pressure cookers, water heaters, and gas stoves) to prevent the battery from overheating and exploding.
- Please use the original charger and data cables provided with the product.
- Using unauthorized or incompatible chargers, data cables, or batteries may cause electric shock, fire, explosion, or other dangers.
- Avoid stepping on or squeezing the power cable, especially at the plugs, outlets, and points where it extends from the device.
- Unplug the device during thunderstorms or when it is not in use for an extended period.
- Do not disassemble the device unless you are a Hollyvox's qualified technician or under professional guidance.
- All repair work should be done by a qualified technician from the manufacturer.

# Product Introduction

Thank you for purchasing the Hollyvox G51 Full-Duplex ENC Wireless Intercom System for your on-site coordination work!

If you have never tried any wireless intercom system, you will now experience one of the best devices in the wireless intercom world – the Hollyvox G51 Full-Duplex ENC Wireless Intercom System! It has a uniquely captivating charm. This **User Manual** will guide you through how to get started with the Hollyvox G51, including device installation and power connection, to begin your on-site communication.

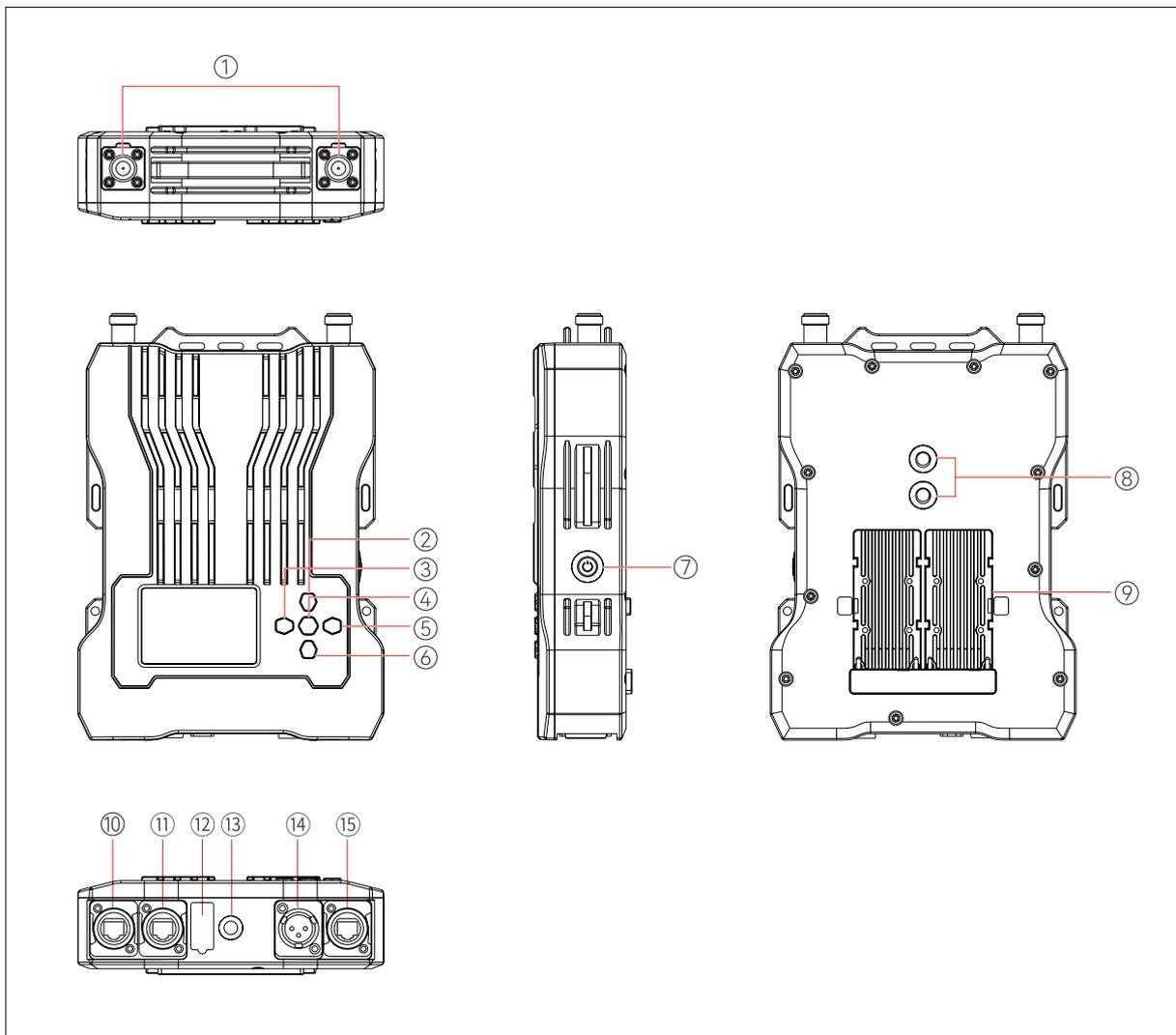
## 1.1 Key Features

- The Hollyvox G51 allows up to eight beltpack users without button pressing. It has a wireless transmission range of up to 1,300ft (400m) between the base station and headsets.
- The voice quality is carrier-grade with no background noise, and it has a sampling rate of 16kHz, a frequency range of 200Hz–7kHz, signal-to-noise ratio of 60dB, and distortion <1%.
- It operates on the 1.9GHz frequency, meeting the frequency configuration requirements of various countries and regions.
- The 0B10 headset is professional, robust, durable, and comfortable to wear.
- The beltpack supports a standard 3.5mm jack for condenser microphone headphones.
- The base station has a 2- and 4-wire interface, POE/LAN interface, and supports cascade connection with multiple base stations or other intercom systems.
- The base station has built-in panel antennas and can connect to external fiberglass antennas with automatic switching.
- The beltpack has a replaceable lithium polymer battery that can operate on a single charge for up to 6 hours. The charging base can fully charge 8 beltpacks and 8 batteries in merely 2 hours at a time.
- The beltpack is crafted using two-shot injection molding technology and has detachable antennas for easy replacement.
- It supports group cooperation and communication. You can easily set up multiple cascade connections and perform each beltpack in group A, B, or C.
- Configuration and upgrade are supported through the base station, app, and web page.
- It has exceptional dual-mic ENC technology, effectively blocking unwanted background noise for clear audio, even in challenging conditions.

# Product Introduction

## 1.2 Product Interface

### 1.2.1 Base Station



① Antenna Interface

② Up Button

③ Left Button

④ Menu/Confirmation Button

(Press and hold the button to enter the menu interface/Press the button for confirmation)

⑤ Right Button

⑥ Down Button

⑦ Power Button

⑧ 3/8 Screw Hole

⑨ NP-F Battery Slot

⑩ Power Supply Interface

⑪ 4-Wire Audio Input & Output Interface (RJ45)

⑫ USB Interface

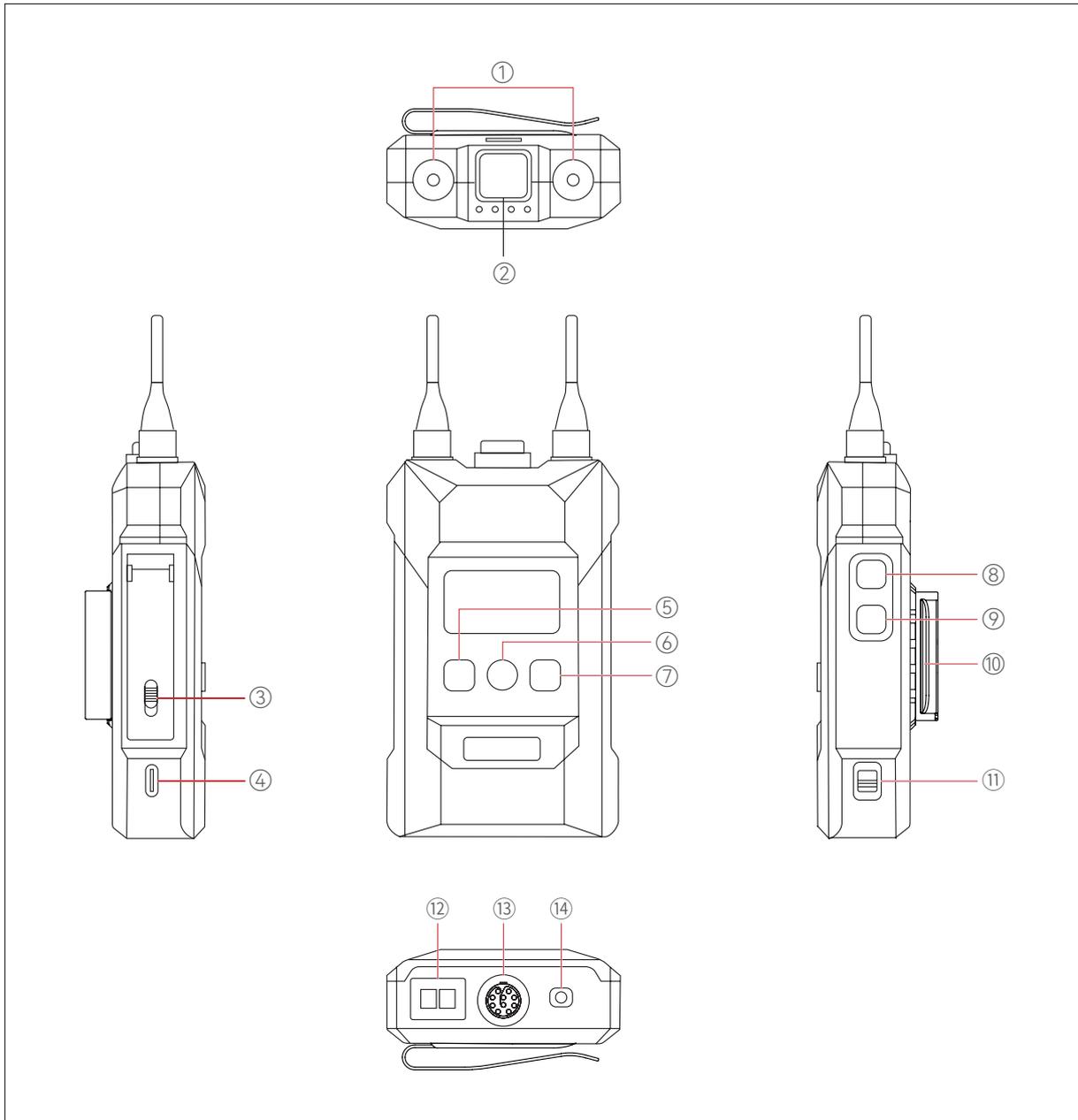
⑬ 3/8 Screw Hole

⑭ 2-Wire Audio Input & Output Interface

⑮ POE/LAN Interface

# Product Introduction

## 1.2.2 Beltpack



# Product Introduction

- ① Antenna Interface
- ② TALK Button (Press the button to talk/Release the button to enter the mute mode)

- ③ Battery Compartment Switch

- ④ USB-C Interface

- ⑤ Left/Group A Button

(The beltpack user is not grouped when the indicator light is off; the beltpack user is in group A but cannot talk with or hear other beltpack users in the group when the indicator light is white; the beltpack user is in group A and can talk with and hear other beltpack users in the group when the indicator light is orange.)

- ⑥ Confirmation/Group B Button

(The beltpack user is not grouped when the indicator light is off; the beltpack user is in group B but cannot talk with or hear other beltpack users in the group when the indicator light is white; the beltpack user is in group B and can talk with and hear other beltpack users in the group when the indicator light is orange.)

- ⑦ Right/Group C Button

(The beltpack user is not grouped when the indicator light is off; the beltpack user is in group C but cannot talk with or hear other beltpack users in the group when the indicator light is white; the beltpack user is in group C and can talk with and hear other beltpack users in the group when the indicator light is orange.)

- ⑧ Volume + Button

- ⑨ Volume - Button

- ⑩ Back Clip

- ⑪ Power Switch

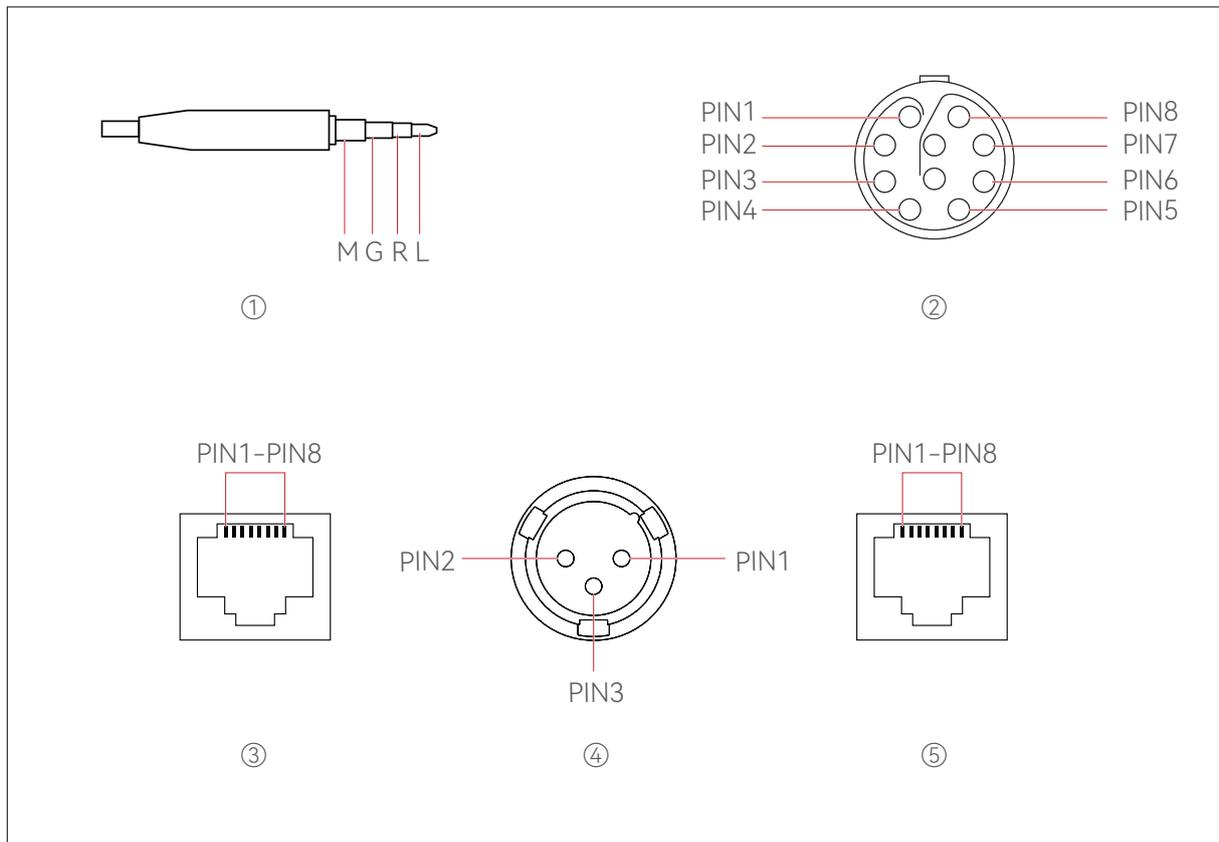
- ⑫ Charging Contacts

- ⑬ 0B10 Headset Interface

- ⑭ 3.5mm Headset Jack

# Product Introduction

## 1.2.3 Line Sequence Interface



### ① 3.5mm Headset Plug

Connection: M G R L

Microphone impedance: 600Ω

Speaker impedance: 32Ω

### ② 0B10 Headset Interface

PIN1: GND

PIN2: DET

PIN3: GND

PIN4: SPK

PIN5: MICP

PIN6: MIC\_GND

PIN7: MICP2

PIN8: ENC\_KEY

# Product Introduction

## ③ 4-Wire Interface

Input impedance: 10K $\Omega$

PIN1: NULL

PIN2: NULL

PIN3: AUDIO OUT+

PIN4: AUDIO IN+

PIN5: AUDIO IN-

PIN6: AUDIO OUT-

PIN7: GND

PIN8: GND

## ④ 2-Wire Interface

PIN1: GND

PIN2: POWER

PIN3: AUDIO

## ⑤ POE/PWR Interface

PIN1: -POWER

PIN2: -POWER

PIN3: +POWER

PIN4: +POWER

PIN5: +POWER

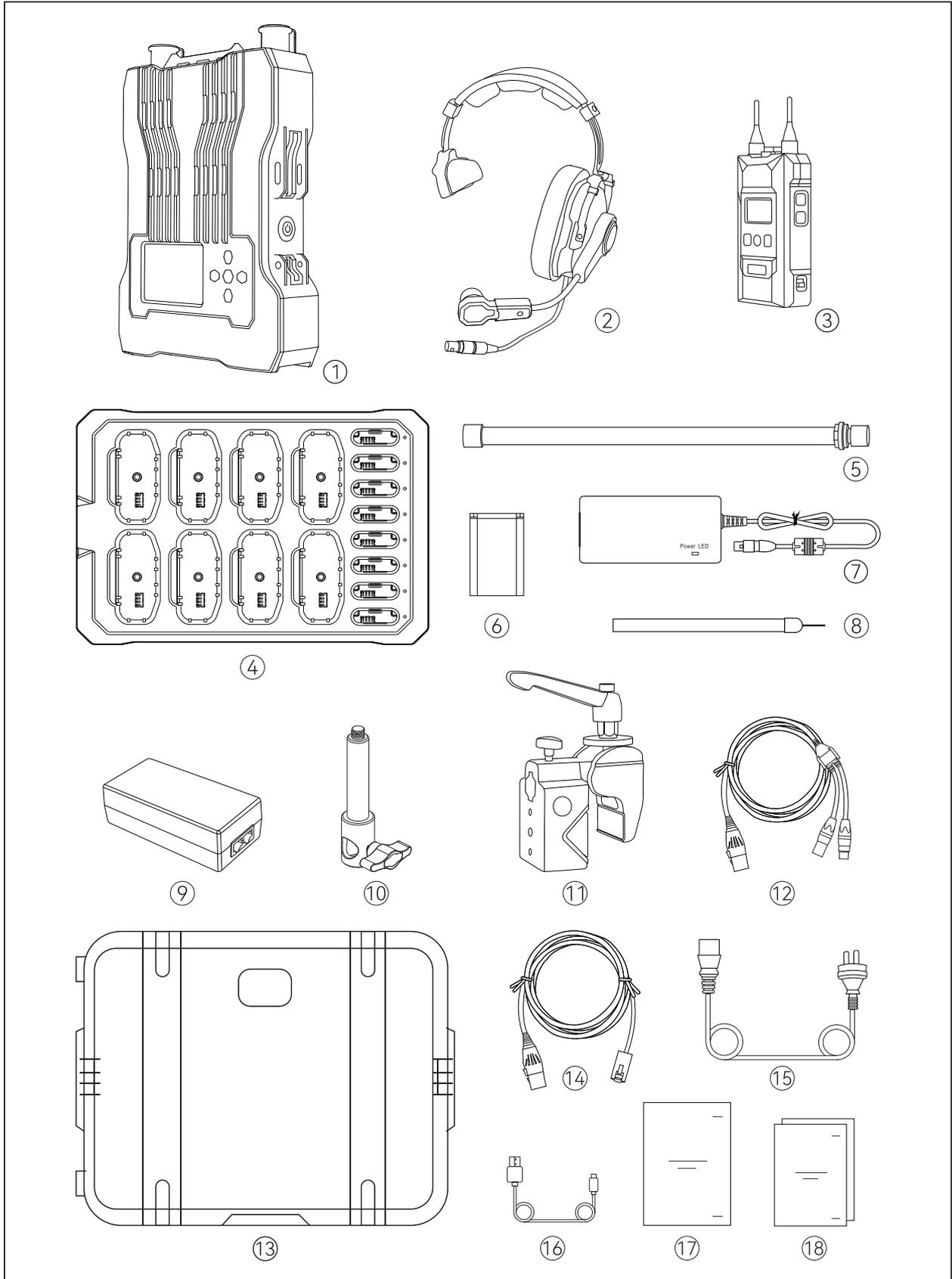
PIN6: +POWER

PIN7: -POWER

PIN8: -POWER

# Product Introduction

## 1.3 Packing List



# Product Introduction

## 8 Beltpacks, Single-Ear Headsets

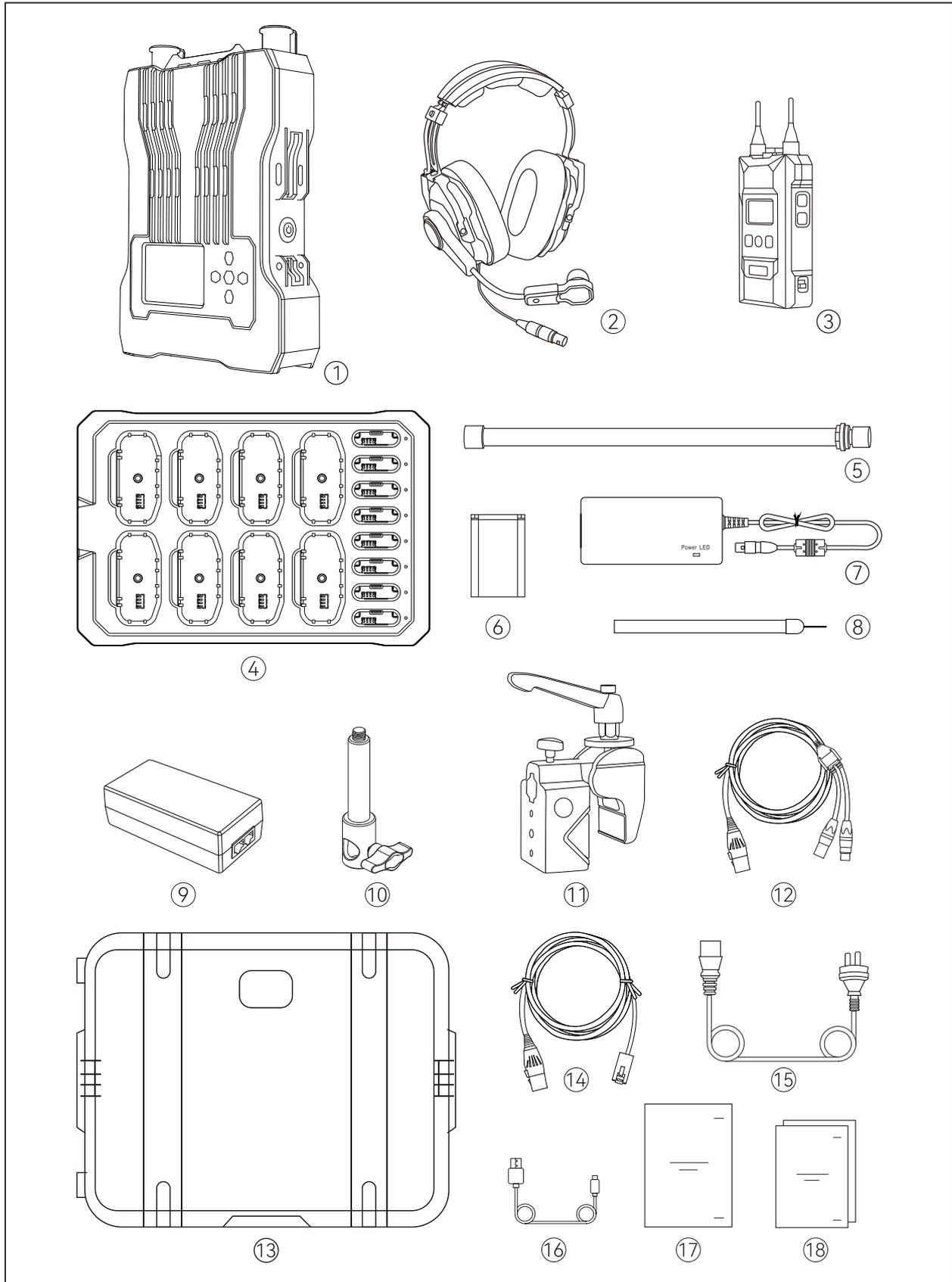
①	RU51 Wireless Intercom System RRU .....	x1
②	Electret Mic ENC Single-Ear Headset (HS01) .....	x8
③	BP51 Wireless ENC Intercom Beltpack .....	x8
④	Beltpack Battery Charging Base (CB01) .....	x1
⑤	External Fiberglass Antenna (AT01) .....	x2
⑥	Beltpack Battery for BP51 (BTY01) .....	x16
⑦	4-Pin XLR Adapter (ADAP02) .....	x1
⑧	Neck Strap .....	x8
⑨	POE Adapter (ADAP01) .....	x1
⑩	3/8 Mounting Screw (MS01) .....	x1
⑪	Crab Clamp for RU51 (CC01) .....	x1
⑫	RJ45 to Dual XLR Cable (CA01) .....	x1
⑬	Hard-Shell Carry Case .....	x1
⑭	RJ45 to XLR Cable .....	x1
⑮	AC Power Cable .....	x2
⑯	USB-A to USB-C Cable .....	x1
⑰	User Manual .....	x1
⑱	Packing List Card & Warranty Card & Safety Guidelines .....	x1

# Product Introduction

## 4 Beltpacks, Single-Ear Headsets

①	RU51 Wireless Intercom System RRU	x1
②	Electret Mic ENC Single-Ear Headset (HS01)	x4
③	BP51 Wireless ENC Intercom Beltpack	x4
④	Beltpack Battery Charging Base (CB01)	x1
⑤	External Fiberglass Antenna (AT01)	x2
⑥	Beltpack Battery for BP51 (BTY01)	x8
⑦	4-Pin XLR Adapter (ADAP02)	x1
⑧	Neck Strap	x4
⑨	POE Adapter (ADAP01)	x1
⑩	3/8 Mounting Screw (MS01)	x1
⑪	Crab Clamp for RU51 (CC01)	x1
⑫	RJ45 to Dual XLR Cable (CA01)	x1
⑬	Hard-Shell Carry Case	x1
⑭	RJ45 to XLR Cable	x1
⑮	AC Power Cable	x2
⑯	USB-A to USB-C Cable	x1
⑰	User Manual	x1
⑱	Packing List Card & Warranty Card & Safety Guidelines	x1

# Product Introduction



# Product Introduction

## 8 Beltpacks, Double-Ear Headsets

①	RU51 Wireless Intercom System RRU .....	x1
②	Electret Mic ENC Double-Ear Headset (HS02) .....	x8
③	BP51 Wireless ENC Intercom Beltpack .....	x8
④	Beltpack Battery Charging Base (CB01) .....	x1
⑤	External Fiberglass Antenna (AT01) .....	x2
⑥	Beltpack Battery for BP51 (BTY01) .....	x16
⑦	4-Pin XLR Adapter (ADAP02) .....	x1
⑧	Neck Strap .....	x8
⑨	POE Adapter (ADAP01) .....	x1
⑩	3/8 Mounting Screw (MS01) .....	x1
⑪	Crab Clamp for RU51 (CC01) .....	x1
⑫	RJ45 to Dual XLR Cable (CA01) .....	x1
⑬	Hard-Shell Carry Case .....	x1
⑭	RJ45 to XLR Cable .....	x1
⑮	AC Power Cable .....	x2
⑯	USB-A to USB-C Cable .....	x1
⑰	User Manual .....	x1
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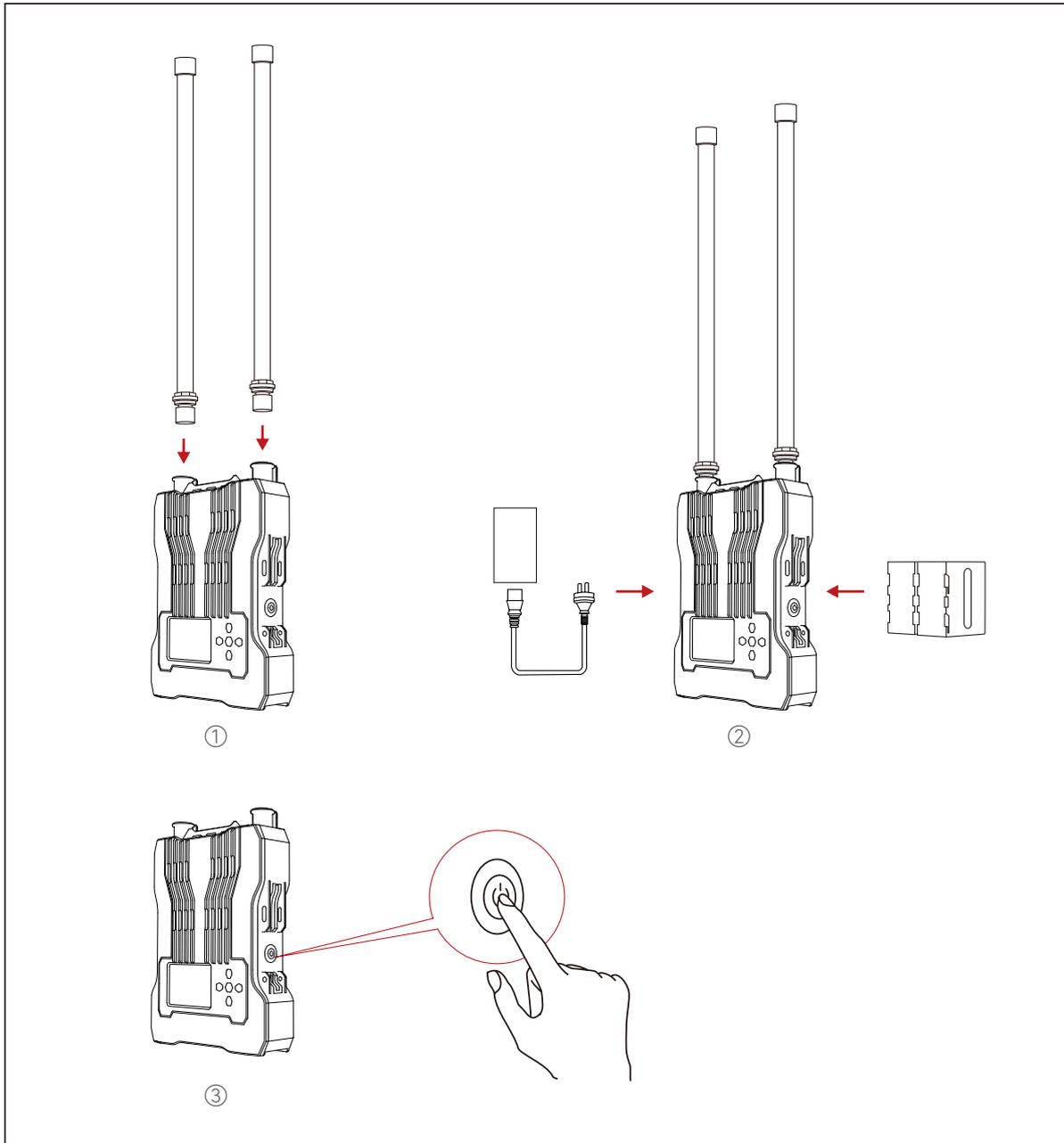
# Product Introduction

## 4 Beltpacks, Double-Ear Headsets

①	RU51 Wireless Intercom System RRU .....	x1
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⑰	User Manual .....	x1
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# Product Installation

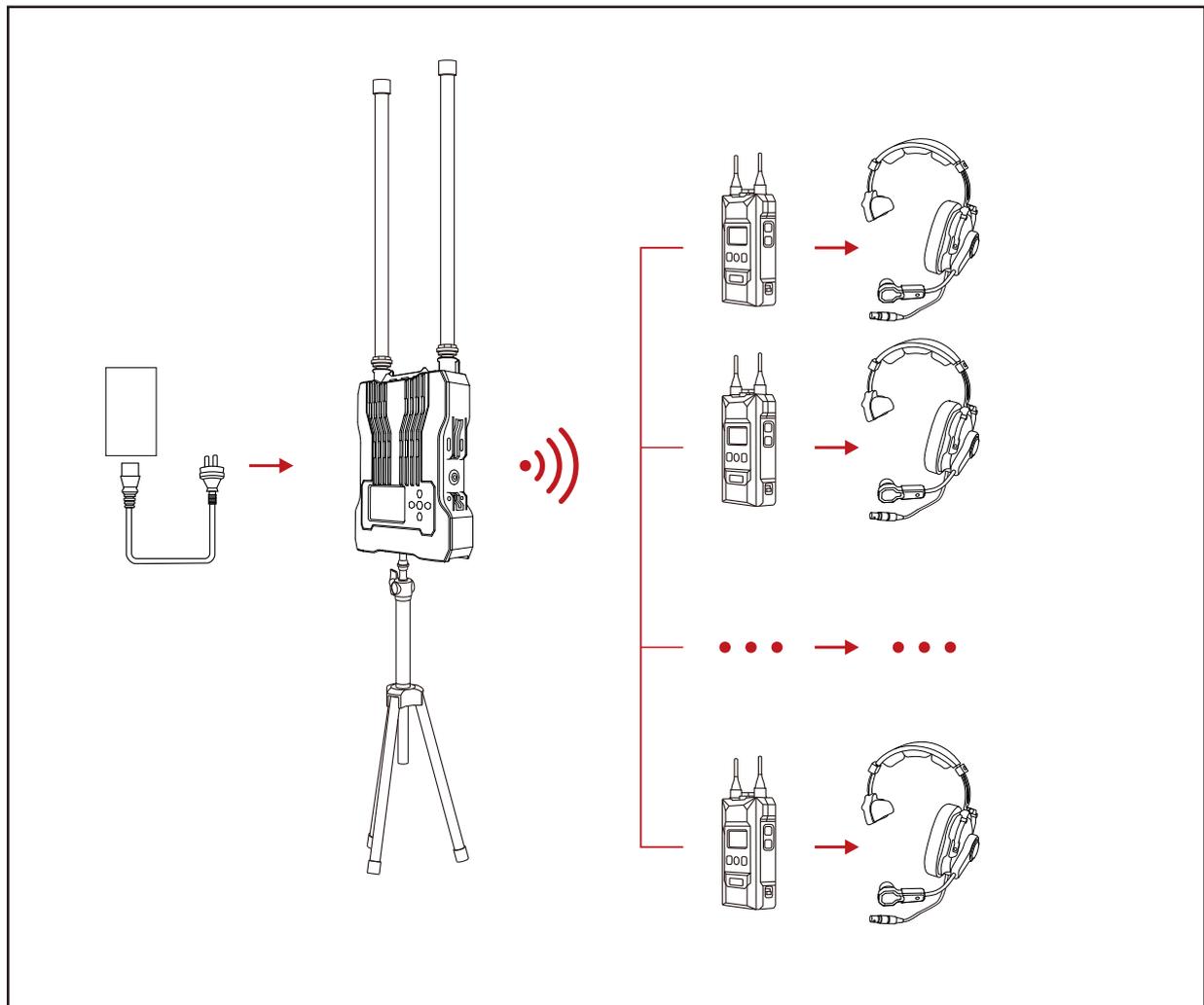
## 2.1 Base Station



### Base Station Installation

1. Install the antennas, as shown in the above diagram.
2. Connect the base station to the power adapter or install the NP-F batteries for power supply.
3. Press the power button to turn on the base station.

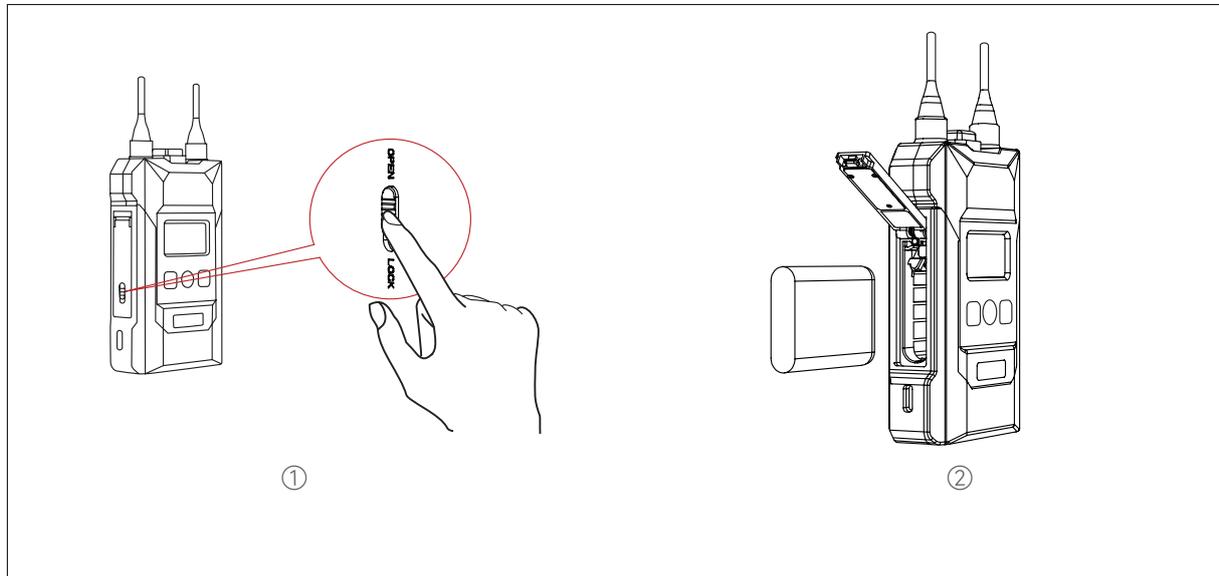
# Product Installation



Note: It is recommended to install the base station at a height of 1.7m.

# Product Installation

## 2.2 Beltpack



### ■ Beltpack Installation

1. Open the battery compartment and insert the battery, as shown in the above diagram.
2. Toggle the power switch to turn on the beltpack.
3. After the beltpack state changes from **LOST** to **TALK**, you are ready to talk. To enter the mute mode, press the **TALK** button on the top of the beltpack. In this case, you can hear other beltpack users but cannot talk with them. To talk with them, simply press the button again to turn off the mute function.
4. The beltpack supports two types of headset interfaces: 3.5mm and 0B10. You can choose the interface based on your specific needs.
5. When other intercom systems are connected via the 4-wire or 2-wire interface, you can enter the base station menu to adjust the input and output gain for a balanced gain across the entire intercom system.
6. Because the battery will enter sleep mode after extended storage, it is advised to fully charge and discharge the beltpack for the first three times of use.

### ■ Repairing

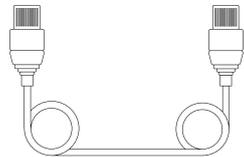
The beltpack number may be lost due to misoperations or other reasons. In this case, you can connect the beltpack to the base station using a USB-A to USB-C cable, select **Pair** on the beltpack, and select an available number to confirm pairing.

Then, "**Pairing...**" will be displayed on the display screens of the base station and the beltpack. Wait until "**Pairing Successful**" is displayed on the screens before unplugging the cable from the base station and the beltpack.

# Product Installation

## 2.3 Cascade Connection

1. You can cascade two base stations using the network cable to expand the beltpack users up to 16. The network cable must be a standard Cat5e cable with an RJ45 connector wired to the 568B standard. The maximum length of the network cable for cascade connection is 300 meters, while the POE cable should not exceed 100 meters.

Standard Network Cable	Category	Maximum Length
	CAT5e CAT6e	984ft (300m)

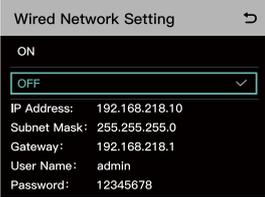
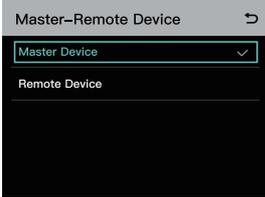
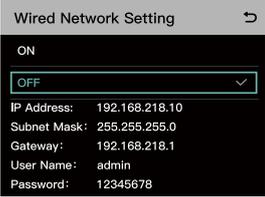
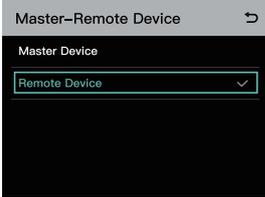
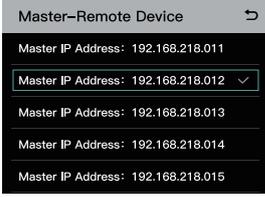
2. Two methods for connecting Hollyvox G51 base stations: 4-Wire Cascade Connection and IP Cascade Connection. When connecting two base stations, use the 4-wire analog signal cascade connection. For three or more base stations, use the recommended IP digital signal cascade connection.  
**A: IP Cascade Connection**  
The base station needs to be set as the master device. Groups A, B, and C beltpack users in the cascaded system can communicate.  
**B: 4-Wire Cascade Connection**  
Both base stations need to be set as the master device. Groups A, B, and C beltpack users in the cascaded system cannot communicate.
3. When the master device is powered using the POE adapter, the POE adapter needs to connect to the power supply interface of the base station. Then, connect the POE interface of the master device to the power supply interface of the remote device using the network cable to power up the remote device without the need for batteries. You can also use NP-F batteries for power supply.

# Product Installation

## M&R Settings

After connecting the network cable between the two base stations, enter the menu interface and set the base station as the master device or remote device. One base station needs to be set as the master device and the other base station as the remote device. Both base stations need to be set to **OFF** in the **Wired Network Setting**.

### 【Hollyvox G51】

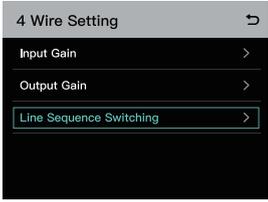
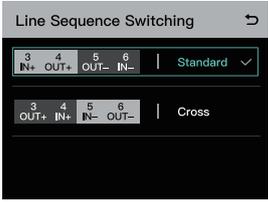
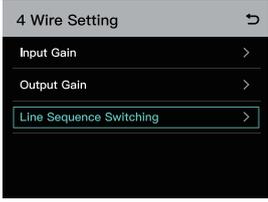
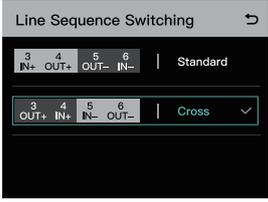
Base Station ①	Select <b>Network</b> to access the <b>Wired Network Settings</b> , then turn <b>OFF</b> .	Select <b>Master-Remote Device</b> to set the base station as the master device.
Network Settings		
Base Station ②	Select <b>Network</b> to access the <b>Wired Network Settings</b> , then turn <b>OFF</b> .	Select <b>Master-Remote Device</b> to set the base station as the remote device.
Network Settings		
	Use the Up/Down Button to select the corresponding <b>Master IP Address</b> and confirm.	

# Product Installation

## 4-Wire Settings

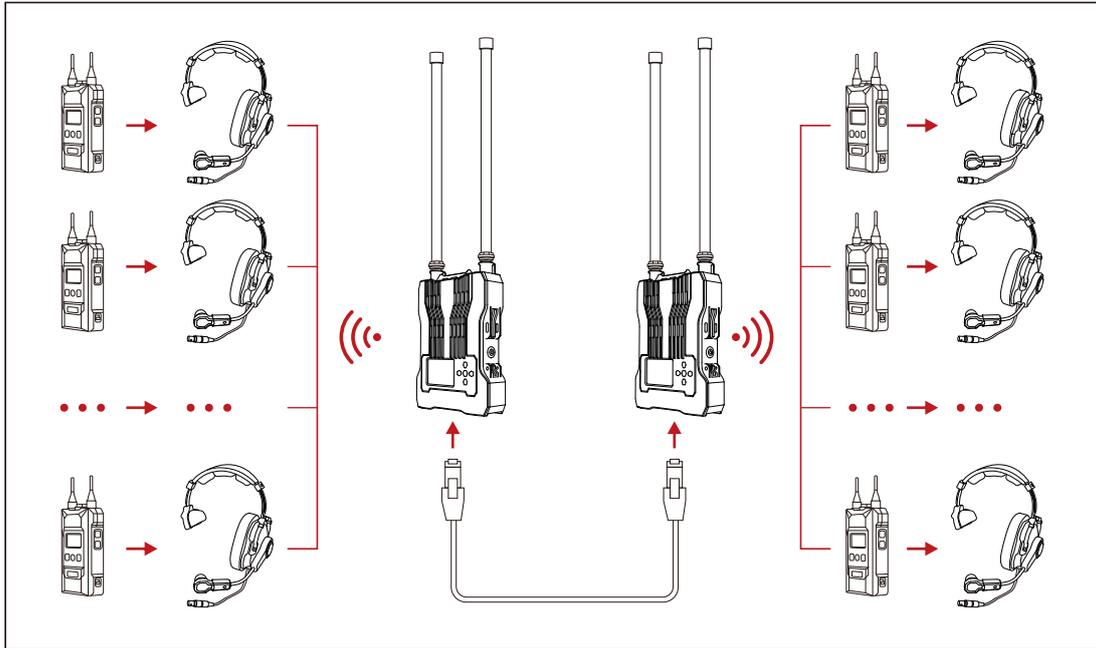
After connecting the network cable between the two base stations, enter the **4 Wire Setting** interface, select **Line Sequence Switching**, and then set one base station to **Standard** and the other base station to **Cross**.

### 【Hollyvox G51】

Base Station ①	Enter <b>4 Wire Setting</b> and select <b>Line Sequence Switching</b>	Select <b>Standard</b>
4 Wire Setting		
Base Station ②	Enter <b>4 Wire Setting</b> and select <b>Line Sequence Switching</b>	Select <b>Cross</b>
4 Wire Setting		

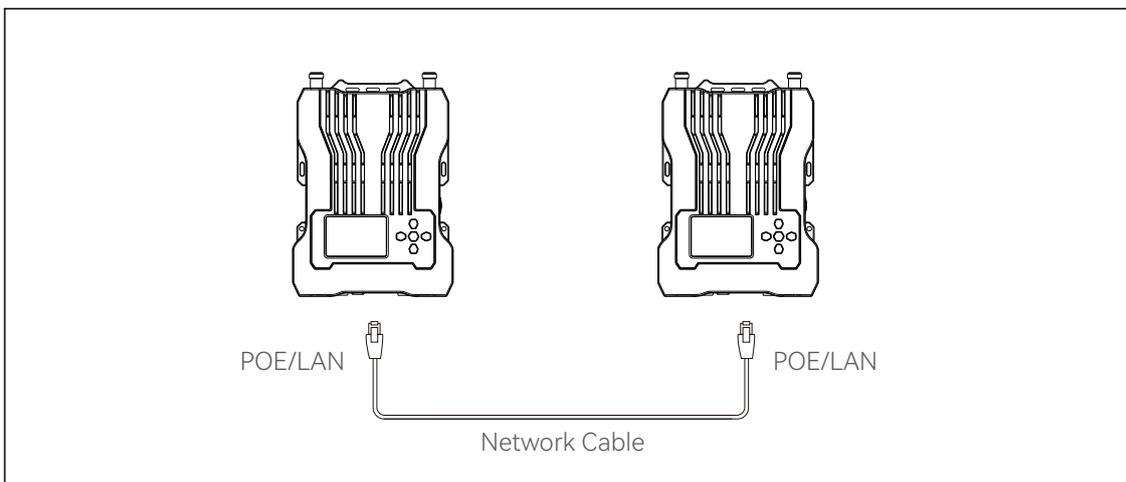
# Product Installation

## Cascade Connection Diagram



## Two-System Cascade Connection

As shown in the diagram below, you can cascade two base stations. Just connect the base station's POE interface to another base station's power supply interface using a network cable. When the master device is powered using the POE adapter, the POE adapter needs to connect to the power supply interface of the base station. Then, connect the POE interface of the master device to the power supply interface of the remote device using the network cable to power up the remote device without the need for batteries. You can also use NP-F batteries for power supply.

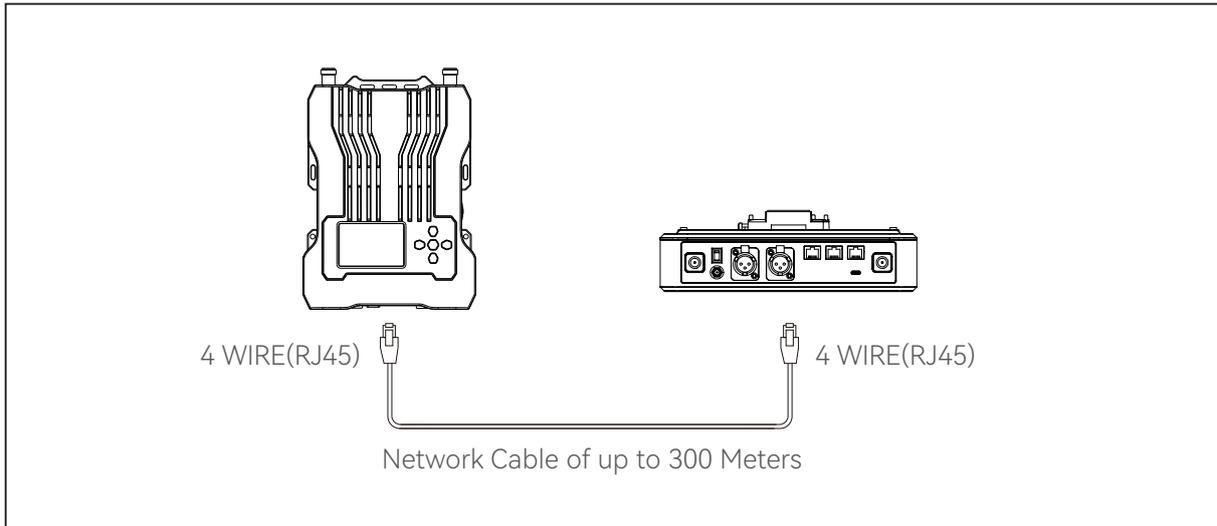


**Note:** Each base station should be placed at least 1.5m apart and powered on one at a time.

# Product Installation

## Cascade Connection with Solidcom C1

Connect the 4-wire interface of the base station and the 4-wire interface of Solidcom C1 using a network cable. The maximum length of the network cable for cascade connection is 300 meters.



## Cascade Connection with Syscom 1000T

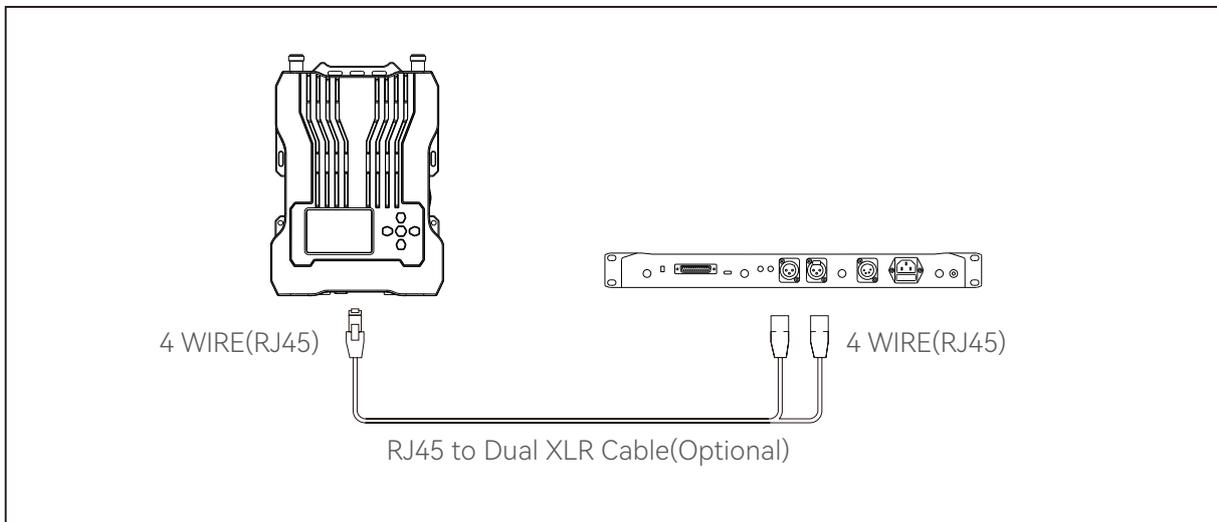
RJ45 to Dual XLR Cable

Network RJ45 Pinout 568B Wiring

XLR Male: PIN1, PIN2, PIN3

XLR Female: PIN1, PIN2, PIN3

Connect the 4-wire interface of the base station and the 4-wire interface of Syscom 1000T using a RJ45 to dual XLR cable. The maximum length of the cable for the cascade connection is 300 meters.



# Product Installation

## Multiple-System Cascade Connection

### Three Hollyvox G51 Systems

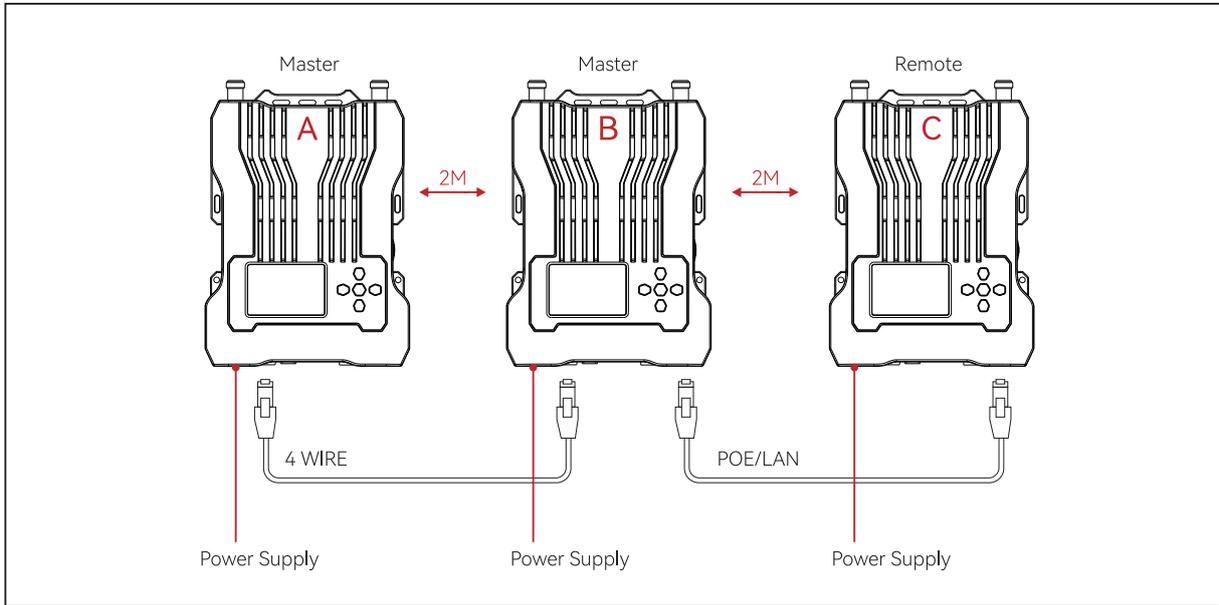


Figure 1

Note: Each base station should be placed at least 2m apart from each other.

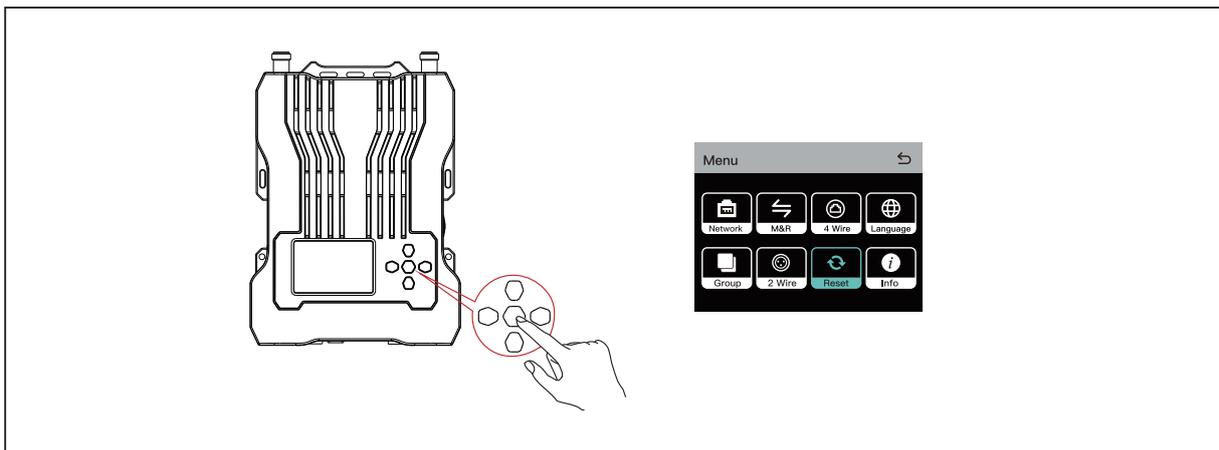


Figure 2

1. In a three-system cascade connection, press and hold the menu/confirmation button on the base stations to enter the menu interface and then select **Reset**. (See Figure 2)
2. Connect the 4-wire interface of base station B and base station A using a network cable. (See Figure 1)

# Product Installation

## Three Hollyvox G51 Systems



Figure 3

3. Enter the menu interface on base station B and select **4 Wire > Line Sequence Switching > Cross**. (See Figure 3)
4. Connect the POE/LAN interface of base station C and base station B using a network cable. (See Figure 1)

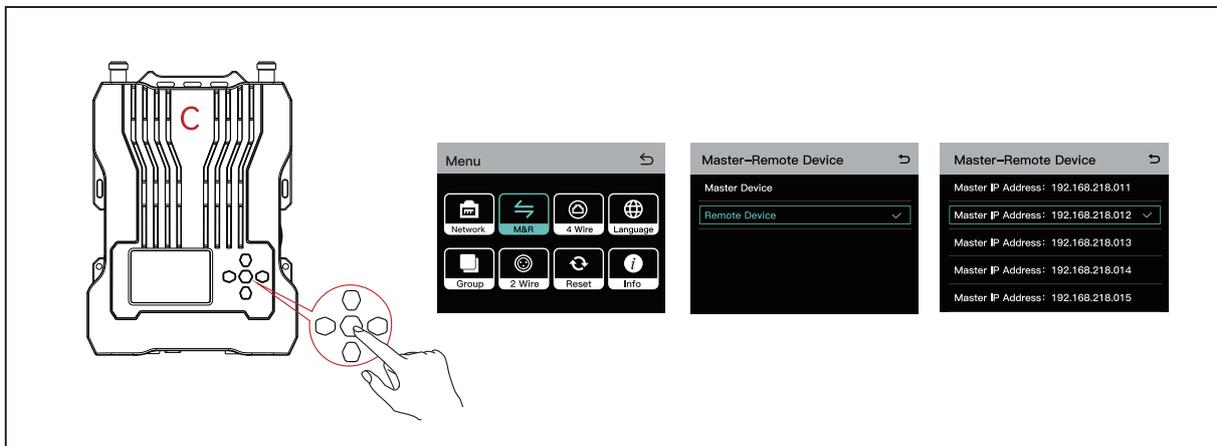


Figure 4

5. Enter the menu interface on base station C, select **Master-Remote Device > Remote Device**, press the menu/confirmation button, and select the IP address of the corresponding master device. (See Figure 4)

# Product Installation

## Four Hollyvox G51 Systems

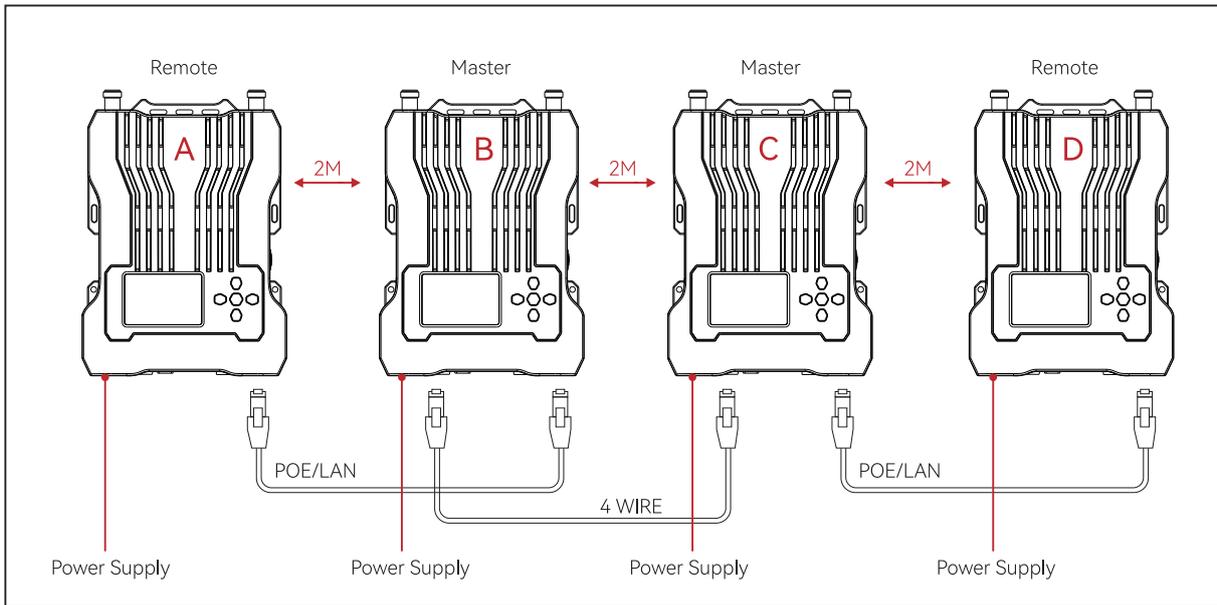


Figure 1

**Note:** Each base station should be placed at least 2m apart from each other.

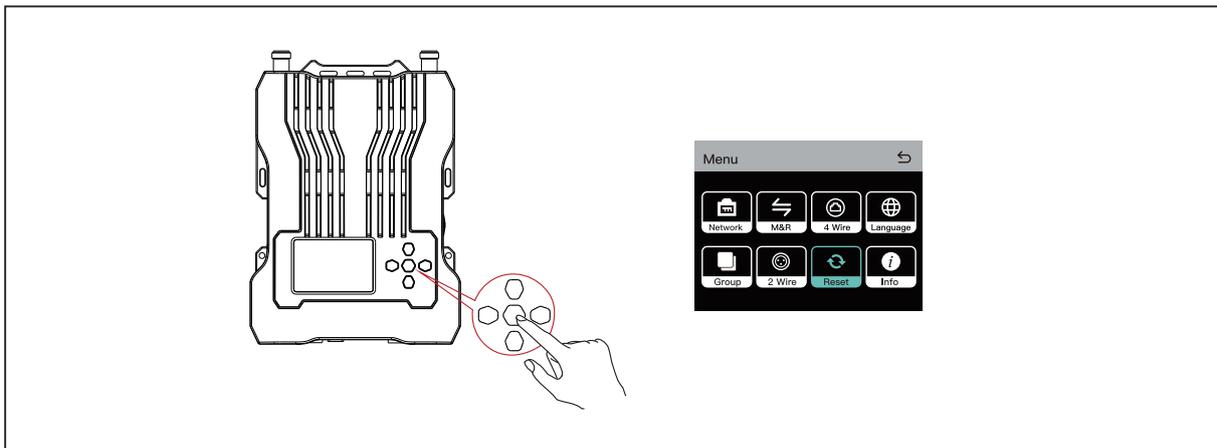


Figure 2

1. In a four-system cascade connection, press and hold the menu/confirmation button on the base stations to enter the menu interface and then select **Reset**. (See Figure 2)
2. Connect the POE/LAN interface of base station B and base station A using a network cable. (See Figure 1)

# Product Installation

## Four Hollyvox G51 Systems

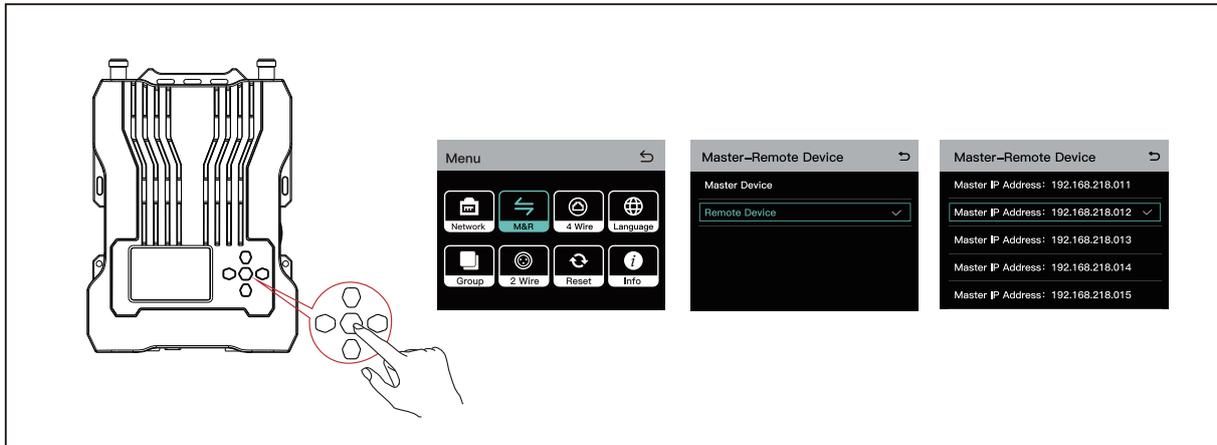


Figure 3

3. Enter the menu interface on base station A, select **Master-Remote Device > Remote Device**, press the menu/confirmation button, and select the IP address of the corresponding master device. (See Figure 3)
4. Connect the 4-wire interface of base station C and base station B using a network cable. (See Figure 1)

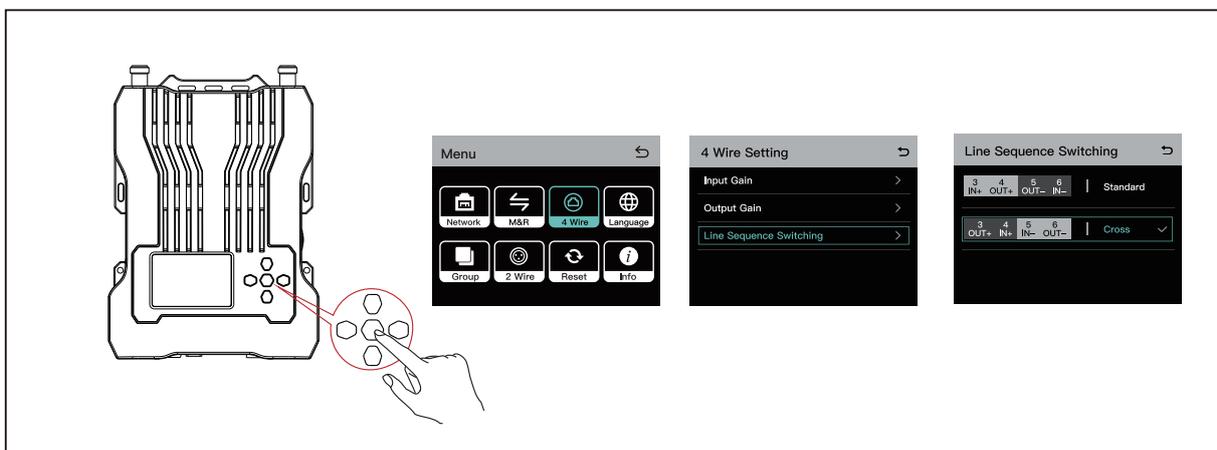
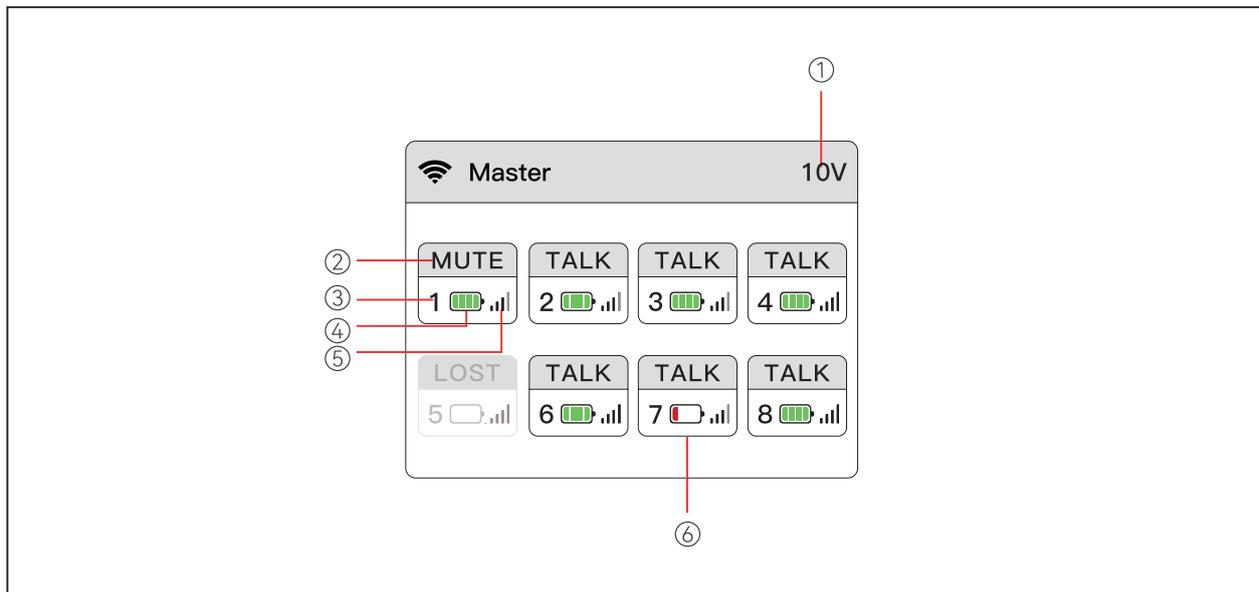


Figure 4

5. Enter the menu interface on base station C and select **4 Wire > Line Sequence Switching > Cross**. (See Figure 4)
6. Connect the POE/LAN interface of base station D and base station C using a network cable. (See Figure 1)
7. Enter the menu interface on base station D, select **Master-Remote Device > Remote Device**, press the menu/confirmation button, and select the IP address of the corresponding master device. (See Figure 3)

# Base Station Operation

## 3.1 Display Interface



① Base Station Battery Voltage

② Beltpack Status

**TALK:** The beltpack user can talk with and hear other beltpack users.

**MUTE:** The beltpack user is muted and can only hear other beltpack users.

**LOST:** The beltpack user is disconnected from the base station.

**LINK:** The beltpack user is connecting to the base station.

③ Beltpack Number

④ Beltpack Battery Level

⑤ Beltpack Signal Strength

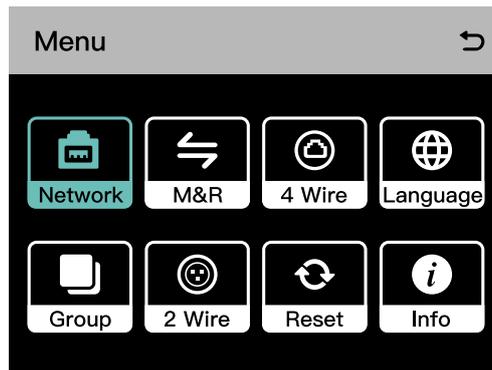
⑥ Beltpack Low Battery Display

# Base Station Operation

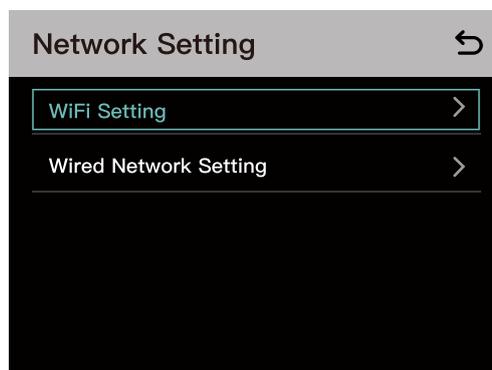
## 3.2 Operation Instruction

### ■ Base Station

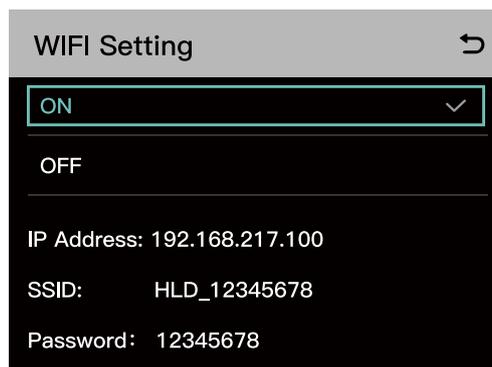
Press and hold the menu/confirmation button on the base station for about 3 seconds to enter the menu interface.



### 3.2.1 Network Settings

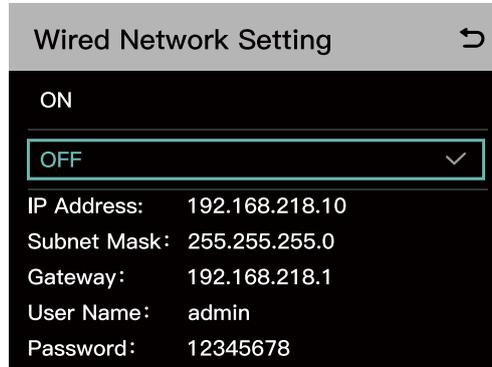


① Select **Wi-Fi Setting** to turn Wi-Fi on or off. After it is turned on, the IP address, SSID, and password are displayed.



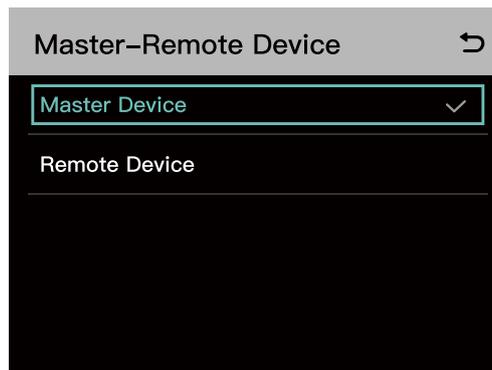
# Base Station Operation

② Select **Wired Network Setting** to turn DHCP on or off. You can also view the IP address, subnet mask, gateway, and user name and password for logging in to the web page.



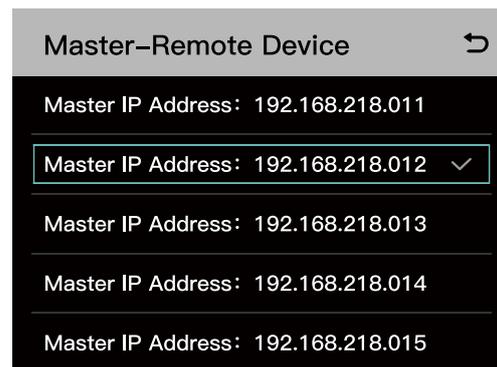
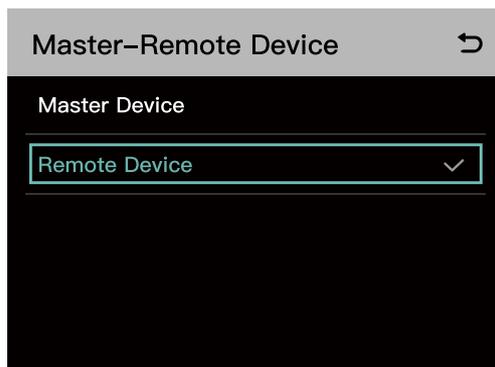
## 3.2.2 Master & Remote

① Select **Master Device** to set the base station to master device.



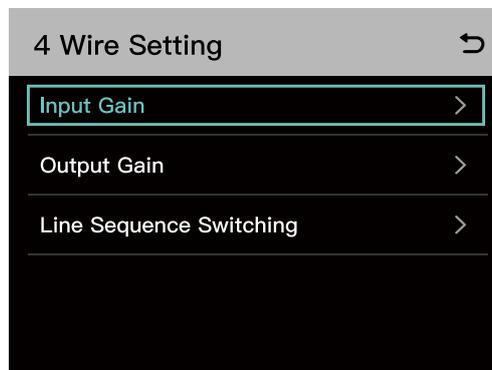
② Select **Remote Device** to set the base station to remote device, and a list of IP addresses for available master devices will appear. Select the IP address corresponding to the master device you want to connect to.

- When a single base station is used, it needs to be set as the master device.
- When two or more base stations are used, one base station needs to be set as the master device and the other base station as the remote device.

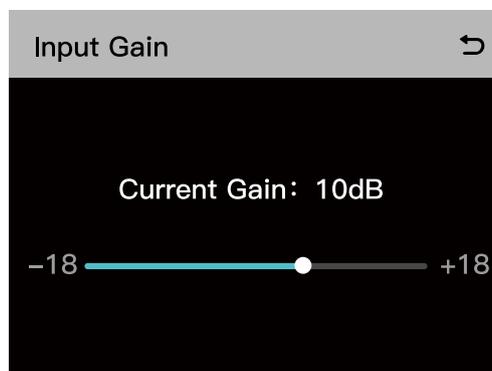


# Base Station Operation

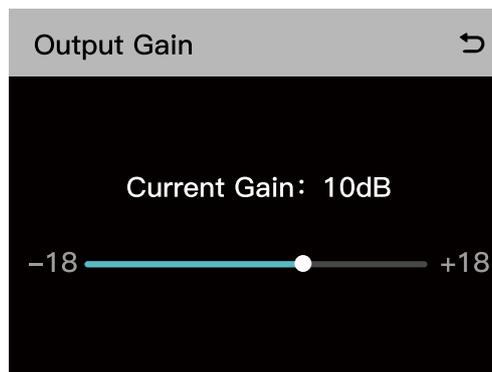
## 3.2.3 4-Wire Settings



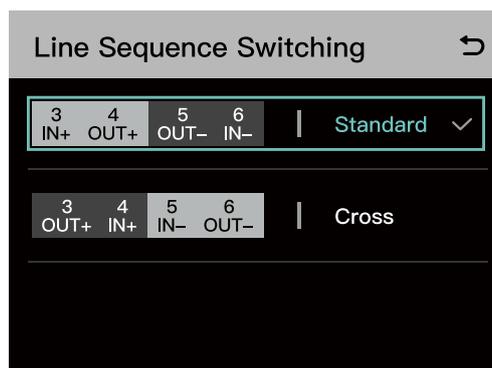
① Select Input Gain to set the input gain.



② Select Output Gain to set the output gain.

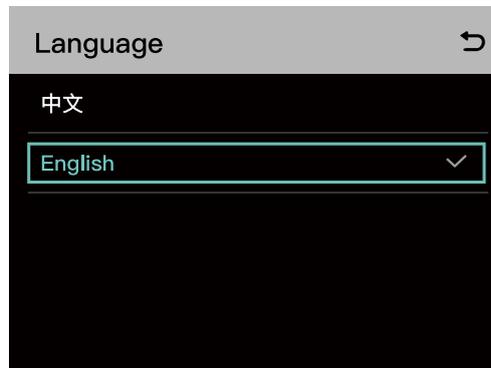


③ Select Line Sequence Switching to switch between Standard and Cross modes.

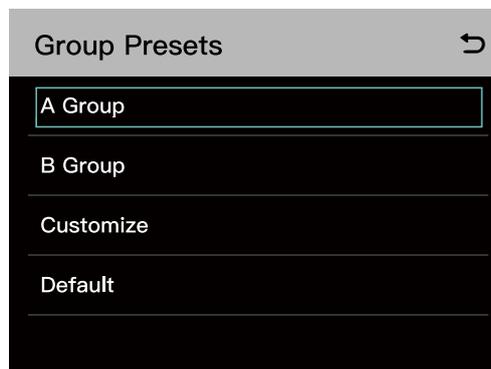


# Base Station Operation

## 3.2.4 Language



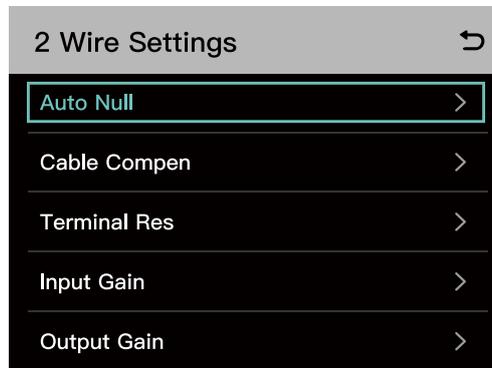
## 3.2.5 Group Presets



- ① One group: All the beltpacks and the 2-wire and 4-wire audio systems are in group A. In this case, the group A indicator light on the beltpacks will turn on.
- ② Two groups: The beltpacks numbering 1 to 4 and the 2-wire and 4-wire audio systems are in group A, and the beltpacks numbering 5 to 8 are in group B. In this case, the corresponding group indicator light on the beltpacks will turn on.
- ③ Customized grouping: You can assign the beltpacks and the 2-wire and 4-wire audio systems to different groups using the navigation and confirmation buttons. In this case, the corresponding group indicator light on the beltpacks will turn on.
- ④ Default grouping: All the beltpacks and the 2-wire and 4-wire audio systems are in group A. In this case, the group A indicator light on the beltpacks will turn on.

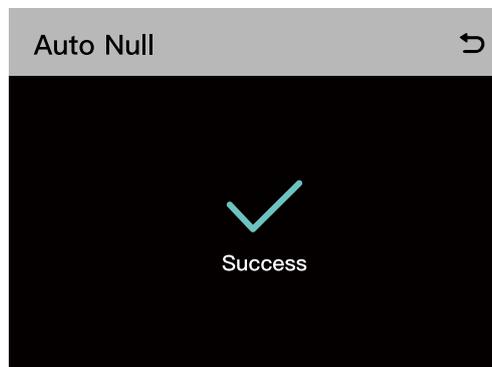
# Base Station Operation

## 3.2.6 2-Wire Settings



### ① Auto Null

Connect the base station to a 2-wire device. Power on the 2-wire device and turn off or disconnect its microphone to make sure that there is no other audio transmission on the 2-wire link. Otherwise, the accuracy of auto-null settings may be affected. After you select **Auto Null** and press **Confirm**, the base station will perform auto-null settings for the 2-wire device.



### ② Cable Compensation

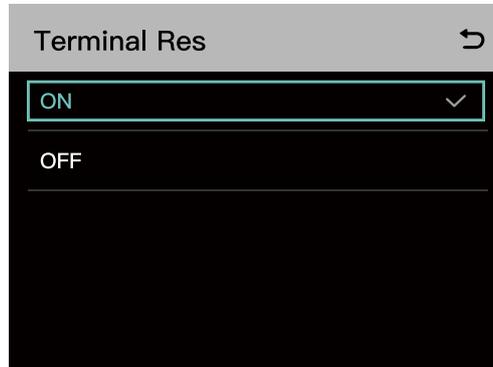
Select **Cable Compensation** to check the 2-wire cable length and select the corresponding compensation option according to the cable length.



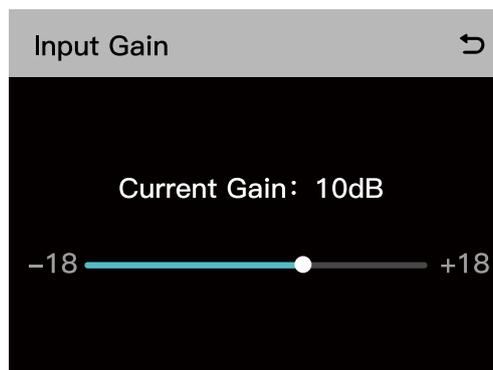
# Base Station Operation

## ③ Terminal Res

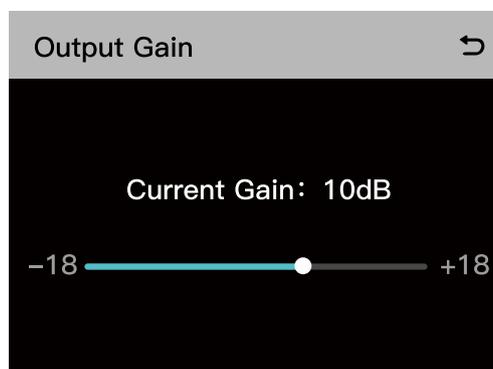
Select **Terminal Res** to check whether the 2-wire device connected via the 2-wire interface has terminal resistance. If it has, select **OFF**. Otherwise, select **ON**.



## ④ Select Input Gain to set the suitable gain level.



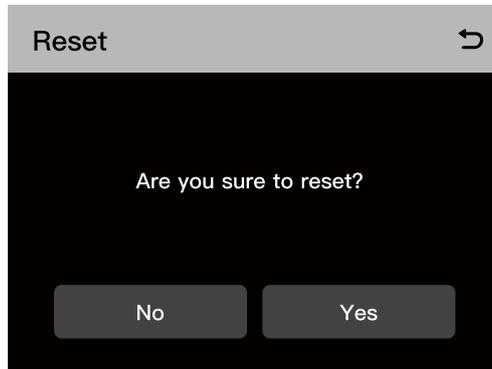
## ⑤ Select Output Gain to set the suitable gain level.



# Base Station Operation

## 3.2.7 Reset

Select **Reset** to reset the base station configuration information to the default settings.

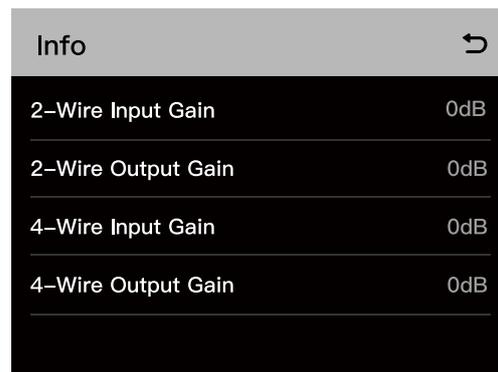


## 3.2.8 Information



A screenshot of a mobile application screen titled "Info". The screen has a dark background with a light gray header bar containing the title "Info" and a back arrow icon. The main content area is black with a list of configuration items in white text, each followed by its value. The items are: "Version Info" (V1.0.0.1 H002), "Master & Remote" (Master), "Auto Null" (Failure), "Cable Compensation" (50m), and "Terminal Resistance" (OFF).

Item	Value
Version Info	V1.0.0.1 H002
Master & Remote	Master
Auto Null	Failure
Cable Compensation	50m
Terminal Resistance	OFF

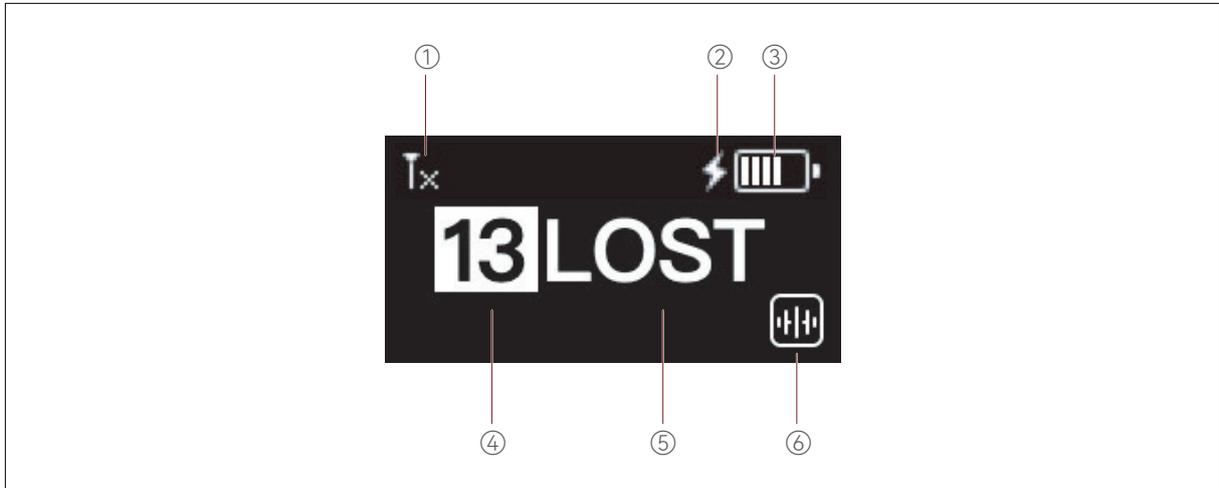


A screenshot of a mobile application screen titled "Info". The screen has a dark background with a light gray header bar containing the title "Info" and a back arrow icon. The main content area is black with a list of configuration items in white text, each followed by its value. The items are: "2-Wire Input Gain" (0dB), "2-Wire Output Gain" (0dB), "4-Wire Input Gain" (0dB), and "4-Wire Output Gain" (0dB).

Item	Value
2-Wire Input Gain	0dB
2-Wire Output Gain	0dB
4-Wire Input Gain	0dB
4-Wire Output Gain	0dB

# Beltpack Operation

## 4.1 Display Interface



① Beltpack Signal Strength

② Beltpack in Charging

③ Beltpack Battery Level

④ Beltpack Number

⑤ Beltpack Status

**TALK:** The beltpack user can talk with and hear other beltpack users.

**MUTE:** The beltpack user is muted and can only hear other beltpack users.

**LOST:** The beltpack user is disconnected from the base station.

**LINK:** The beltpack user is connecting to the base station.

⑥ ENC Icon

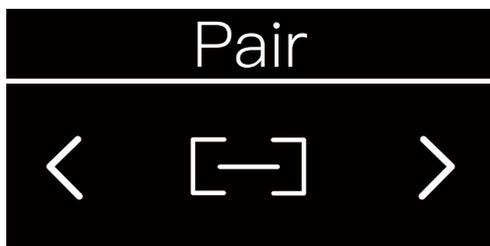
# Beltpack Operation

## 4.2 Operation Instruction

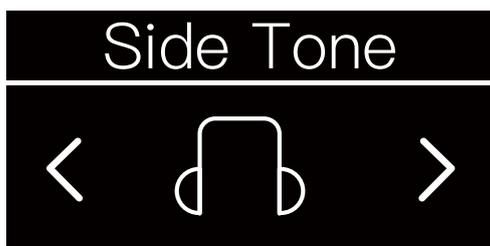
### 4.2.1 Menu Description

Press and hold the volume up (+) and volume down (-) buttons simultaneously on the beltpack for three seconds to enter the menu. The menu functions are as follows:

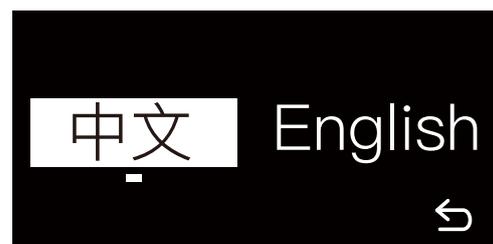
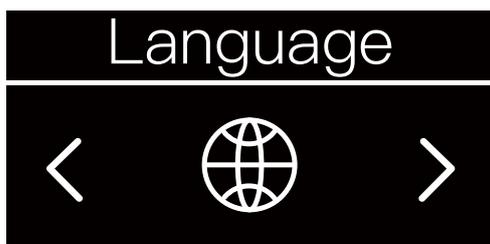
1. Connect the beltpack to the base station using a USB-A to USB-C cable, select **Pair**, and choose an available number from 1 to 8 to confirm pairing. Then, “Pairing...” will appear on the display screens of the base station and the beltpack. Wait until “Pairing Successful” is displayed on the screens before unplugging the cable from the base station and the beltpack.



2. Select **Side Tone** to adjust the side tone output volume. The side tone function is disabled when set to level 0, and the side tone output volume increases progressively from levels 1 to 3.

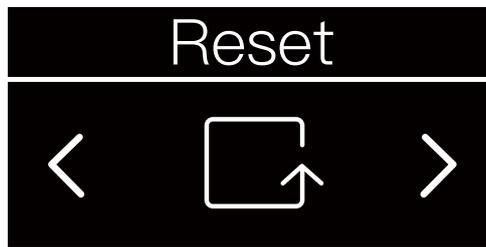


3. Select **Language** to switch the device language between Chinese and English.

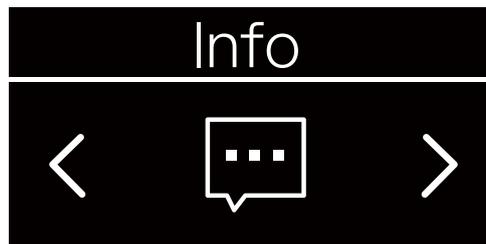


# Beltpack Operation

4. Select **Reset** to restore the beltpack configuration information to the default settings.

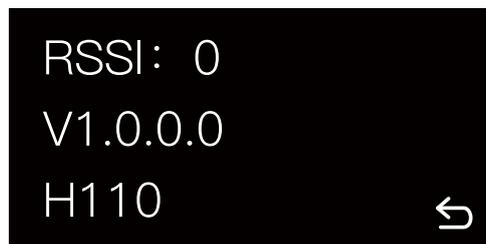


5. Select **Info** to view related information about the beltpack.

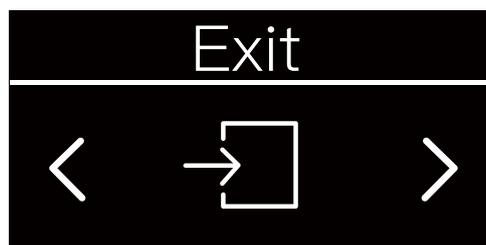


5.1 **RSSI** displays the current wireless signal strength.

5.2 **Version** displays the current software version.



6. Select **Exit** to return to the menu.



# Beltpack Operation

## 4.2.2 Beltpack Grouping Indicator Light Status

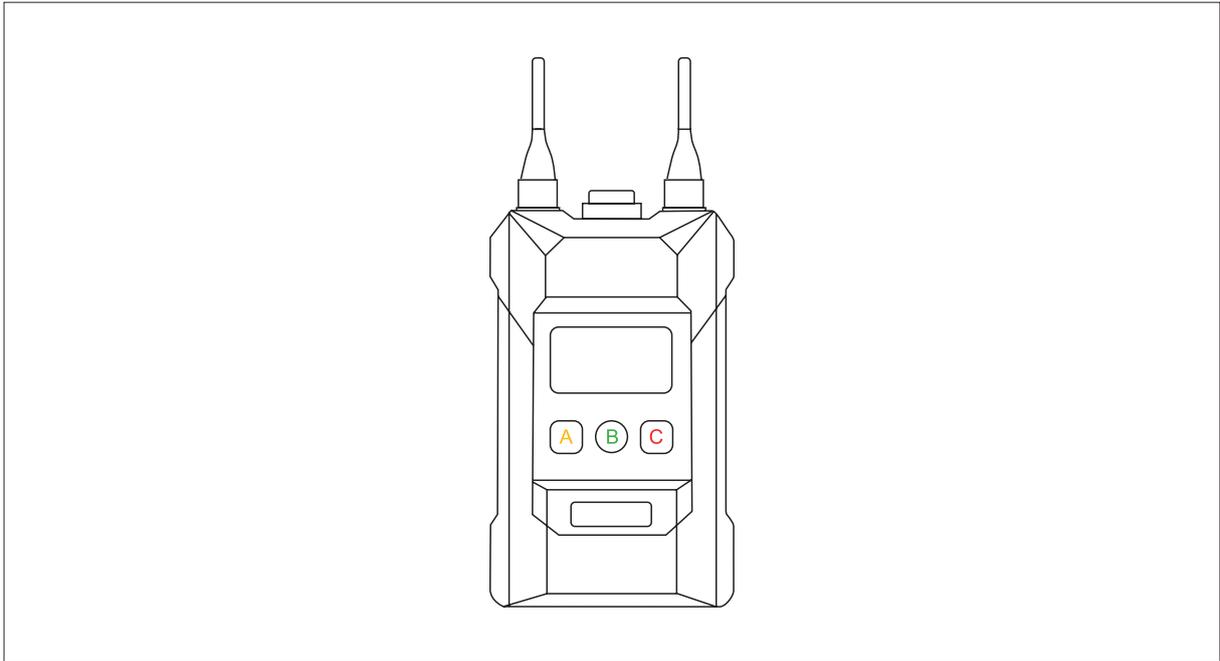
Push-to-Talk Logic					
Number	Preset Mode	Functions	Key Color	Light Status	Note
1	Talk and Force Listen	No operation: can listen but cannot talk	<b>Green</b>	<b>Solid</b>	
		Single press: can control talk	<b>Orange</b>	<b>Solid</b>	
		Long press: can control talk	<b>Orange</b>	<b>Solid</b>	
2	Announce	No operation: can listen but cannot talk	<b>Green</b>	<b>Solid</b>	Turn on the mic, enable <b>Announce</b> , and all other beltpack users in the group can listen but cannot talk
		Single or double press: invalid operation	<b>Green</b>	<b>Solid</b>	
		Long press: can control Announce	<b>Orange</b>	<b>Solid</b>	
3	Force Talk and Force Listen	No operation: can listen and talk	<b>Orange</b>	<b>Solid</b>	
		Single or double press: invalid operation	<b>Orange</b>	<b>Solid</b>	
		Long press: invalid operation	<b>Orange</b>	<b>Solid</b>	
4	Talk and Listen	No operation: can listen and talk	<b>Orange</b>	<b>Solid</b>	Default status
		Double press: beltpack users can enter or exit the group. When in the group, beltpack users can listen and talk. When outside the group, beltpack users can neither listen nor talk	<b>White</b>	<b>Solid</b>	Double press to exit the group, and the indicator light is white. Double press to enter the group, and the indicator light is orange
		Long press: can control listen and talk	<b>Orange</b>	<b>Solid</b>	
5	Force Listen	No operation: can listen but cannot talk	<b>Green</b>	<b>Solid</b>	
		Single or double press: invalid operation	<b>Green</b>	<b>Solid</b>	
		Long press: invalid operation	<b>Green</b>	<b>Solid</b>	

# Beltpack Operation

6	Talk-only	No operation: neither listen nor talk	<b>Colorless</b>	<b>Off</b>	
		Single press: can control talk	<b>Red</b>	<b>Solid</b>	
		Long press: can control talk	<b>Red</b>	<b>Solid</b>	
7	Listen-only	No operation: neither listen nor talk	<b>Colorless</b>	<b>Off</b>	
		Single press: can control listen	<b>Green</b>	<b>Solid</b>	
		Long press: can control listen	<b>Green</b>	<b>Solid</b>	
8	Dual Talk and Listen	No operation: neither listen nor talk	<b>Colorless</b>	<b>Off</b>	
		Single press: can control listen	<b>Green</b>	<b>Solid</b>	
		Long press: can control talk	<b>Red</b>	<b>Solid</b>	

Operation Mode	Preset Mode	Scene Description
Single-press mode	Talk and Force Listen	Beltpack users in the group mostly listen and occasionally talk
	Talk-only	Beltpack users want to talk temporarily in the group
	Listen-only	Beltpack users want to listen temporarily in the group
	Dual Talk and Listen	Beltpack users want to listen and talk temporarily in the group
Double-press mode (Accidental touch protection)	Talk and Listen	Default factory mode. Beltpack users can enter or exit the group
PTT mode	Announce	Enable announce, and all other beltpack users in the group can listen but cannot talk
Key lock mode	Force Talk and Force Listen	Beltpack users can listen and talk. All operations are invalid to prevent new users from unintentional actions that may disrupt communication
	Force Listen	Beltpack users can listen but cannot talk. All operations are invalid to prevent new users from unintentional actions that may disrupt communication

# Beltpack Operation

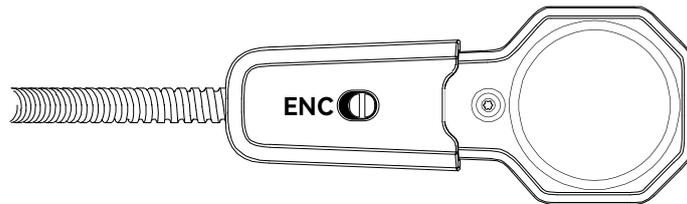
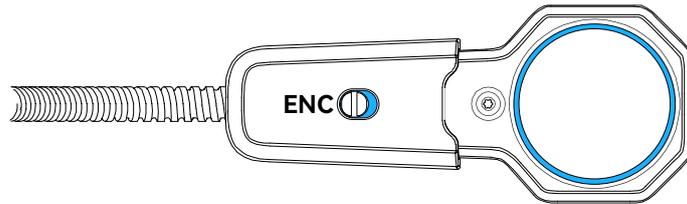


Light Color	Beltpack Listen and Talk Status
<b>Off</b>	<b>Neither listen nor talk</b>
White	Neither listen nor talk
<b>Green</b>	<b>Can listen but cannot talk</b>
<b>Red</b>	<b>Can talk but cannot listen</b>
<b>Orange</b>	<b>Both listen and talk</b>

# Beltpack Operation

## Headset Features

1. There is an ENC switch on the microphone boom of the beltpack headset.
2. Turn on the switch, the indicator light turns solid blue. Turn off the switch, the indicator light goes off.



# Web Page Settings

## 5.1 Configure the Base Station

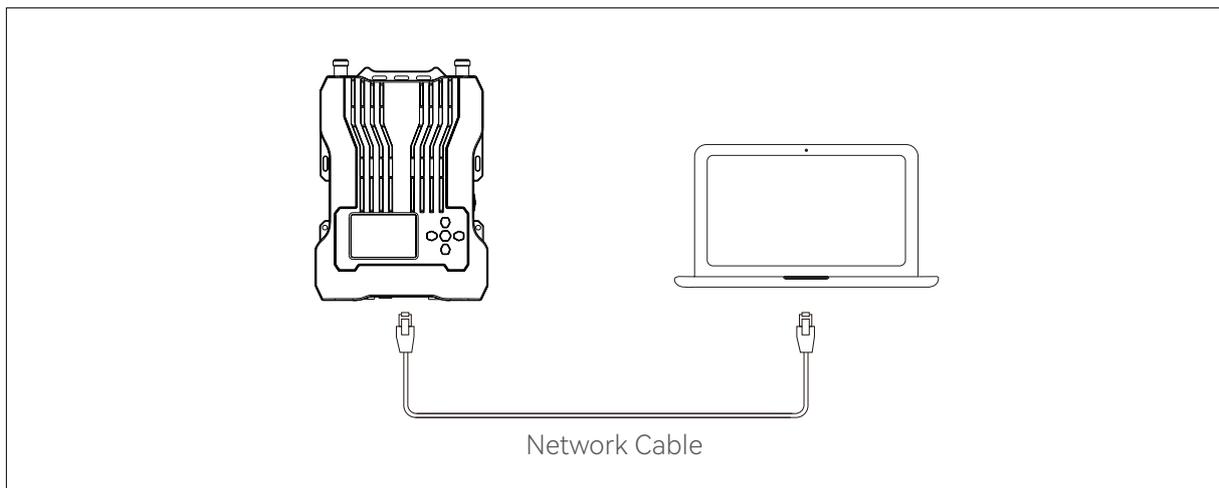
Turn on the base station, connect the base station to a computer using a network cable via the POE or PWR interface on the base station and the network port on the computer. Configure the same network segment for the computer and base station. Open a browser on the computer, and enter the following addresses (Check the corresponding addresses through the network menu on the base station):

**Master device:** 192.168.218.10

**Remote device:** 192.168.218.11

You can log in to the web page to upgrade the base station, perform beltpack grouping, and configure beltpack settings.

### 5.1.1 Connect the Base Station and the Computer via Network Cable



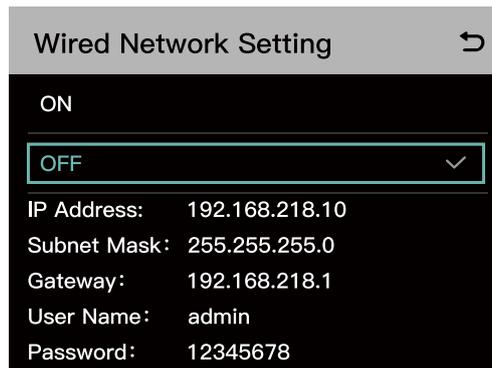
Turn on the base station, connect it to a computer using a network cable via the POE or PWR interface on the base station and the network port on the computer.

# Web Page Settings

## 5.1.2 Log in to the Web Page

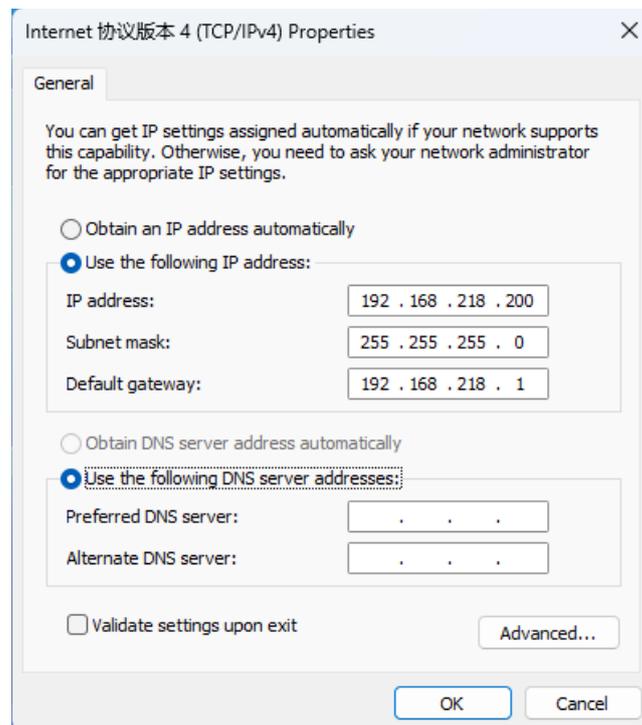
- ① Check the IP address and password of the base station

Steps to view the base station's IP address and login password are as follows: Long press the menu button on the base station, select **Network**, and select **Wired Network Settings** to view the base station's IP address, user name and password.



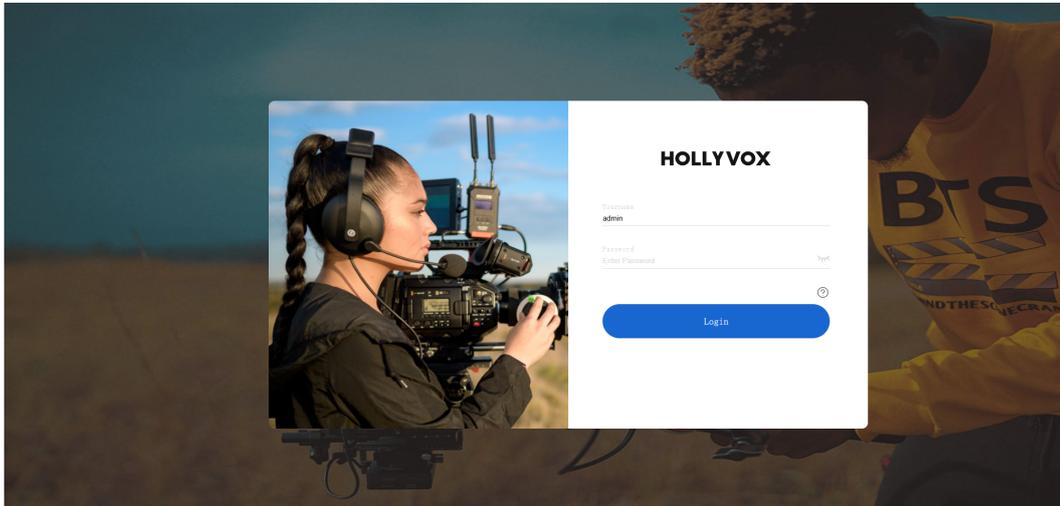
- ② Configure the same network segment for the base station and computer

Connect the base station to the computer using a network cable via the RJ45 network port on the base station and the network port on the computer. Set the computer network's IP address to 192.168.218.XXX, the base station's default IP address to 192.168.218.10 and subnet mask to 255.255.255.0.



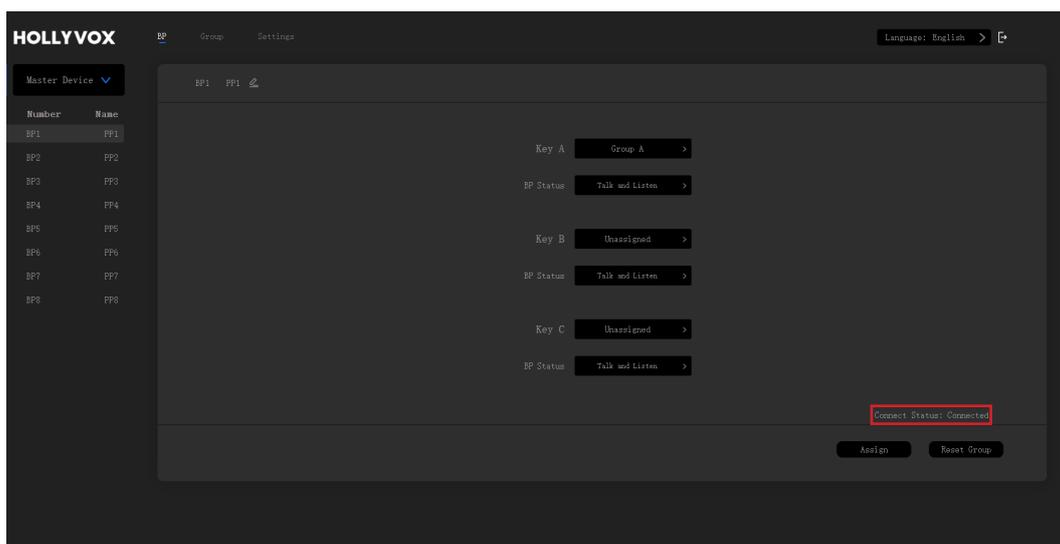
# Web Page Settings

③ Open a browser on the computer and enter the IP address of the base station <http://192.168.217.100>. Use the username admin and the base station's login password (default password: 12345678) to log in.

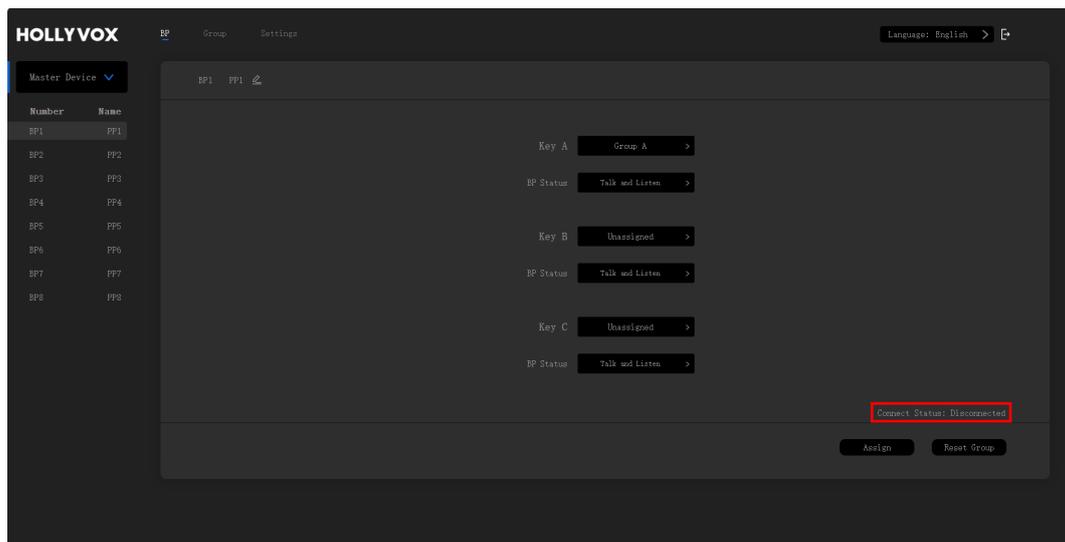


④ You can log in to the web page to upgrade the base station, perform beltpack grouping, and configure beltpack settings.

- Click the corresponding beltpack interface as necessary. The status within the red box indicates whether the beltpack is connected to the base station. The beltpack can only be configured when the status displays “Connected.”



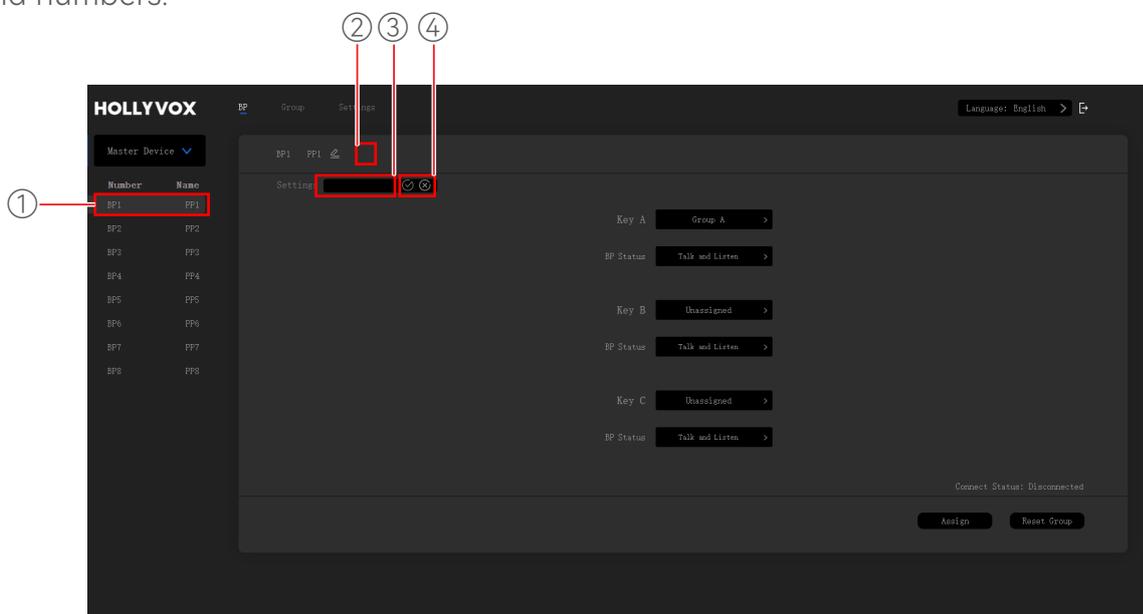
# Web Page Settings



## 5.2 Configure the Beltpack

### 5.2.1 Rename the Beltpack

Click the corresponding beltpack number to name the beltpack. The name does not support Chinese characters and is limited to 6 characters, including uppercase and lowercase letters, and numbers.

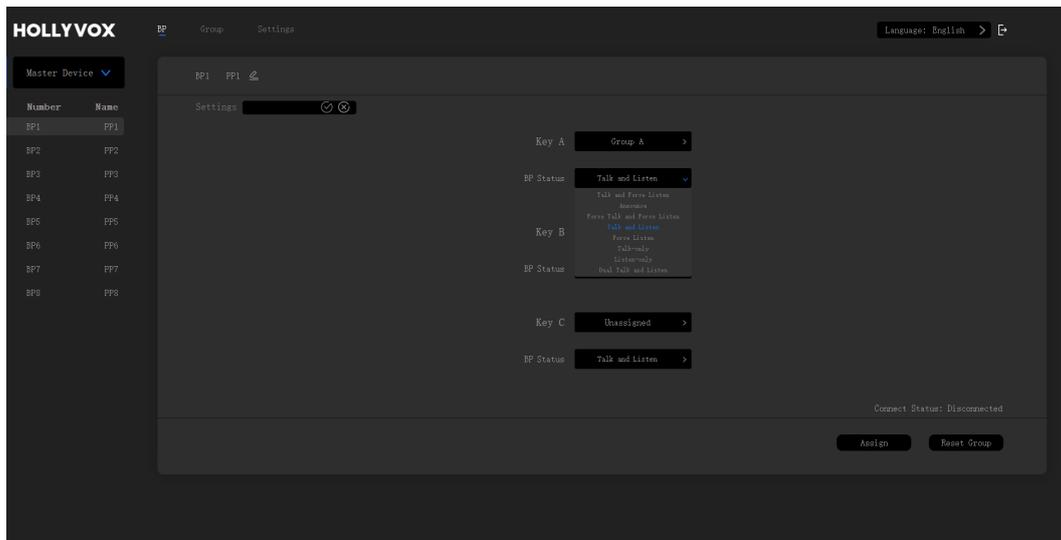


- ① Click the corresponding number of the beltpack
- ② Click 
- ③ Edit the name of the beltpack
- ④ Click  to confirm or  to cancel

# Web Page Settings

## 5.2.2 Group the Beltpack

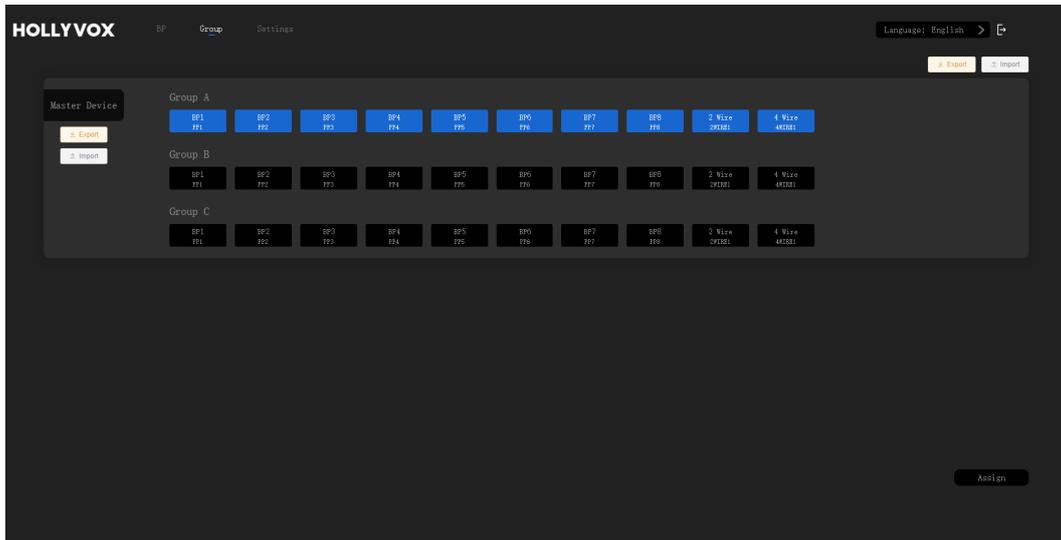
Click the connected beltpack to configure the grouping and communication settings as shown in the diagram below. After configuring, click **Assign** to switch the beltpacks to the desired modes.



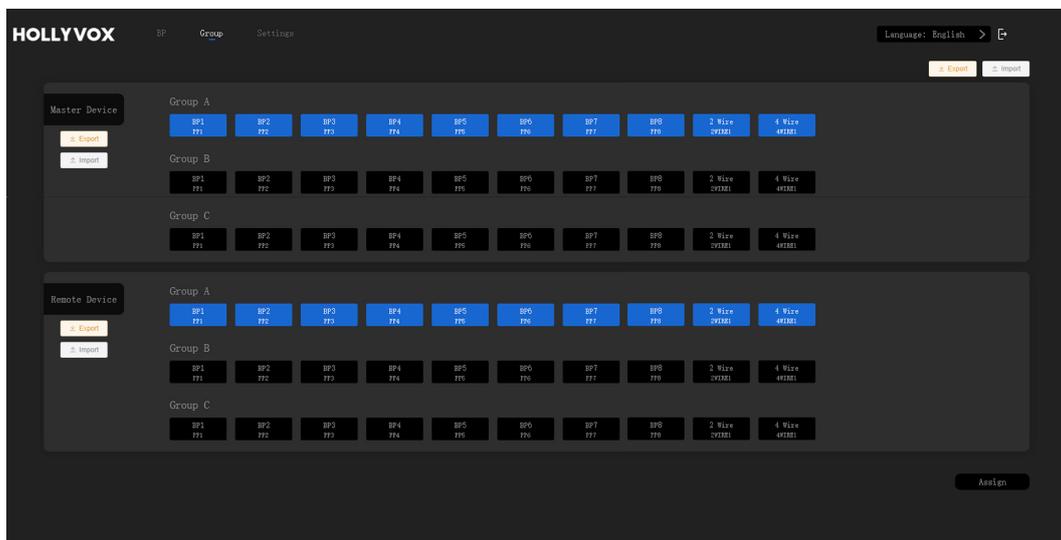
# Web Page Settings

## 5.3 Group the Intercom System

① You can group the intercom system. The diagram below shows grouping when there is only one intercom system.



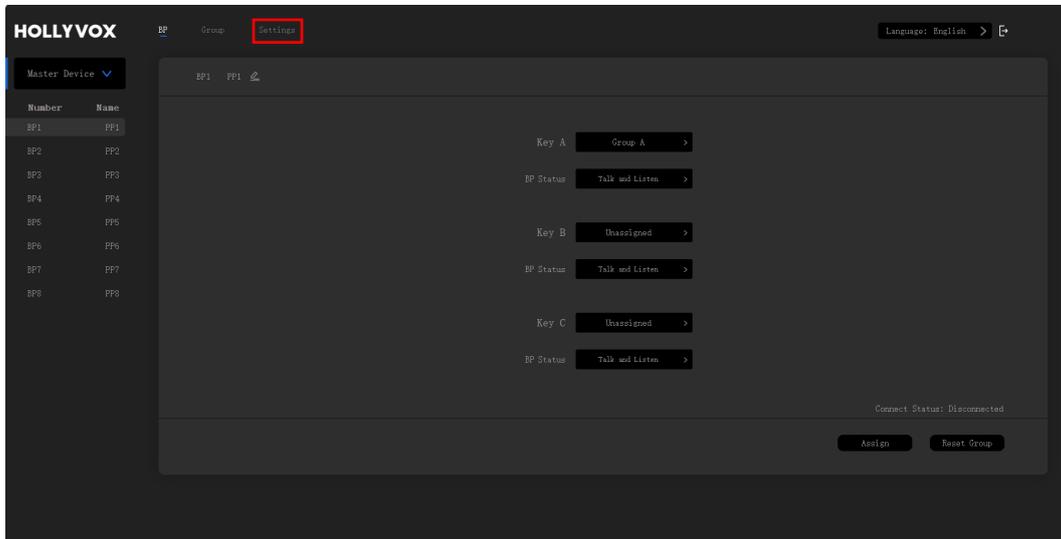
② The diagram below shows grouping when two intercom systems are cascaded.



# Web Page Settings

## 5.4 Configure the Cascaded Intercom System

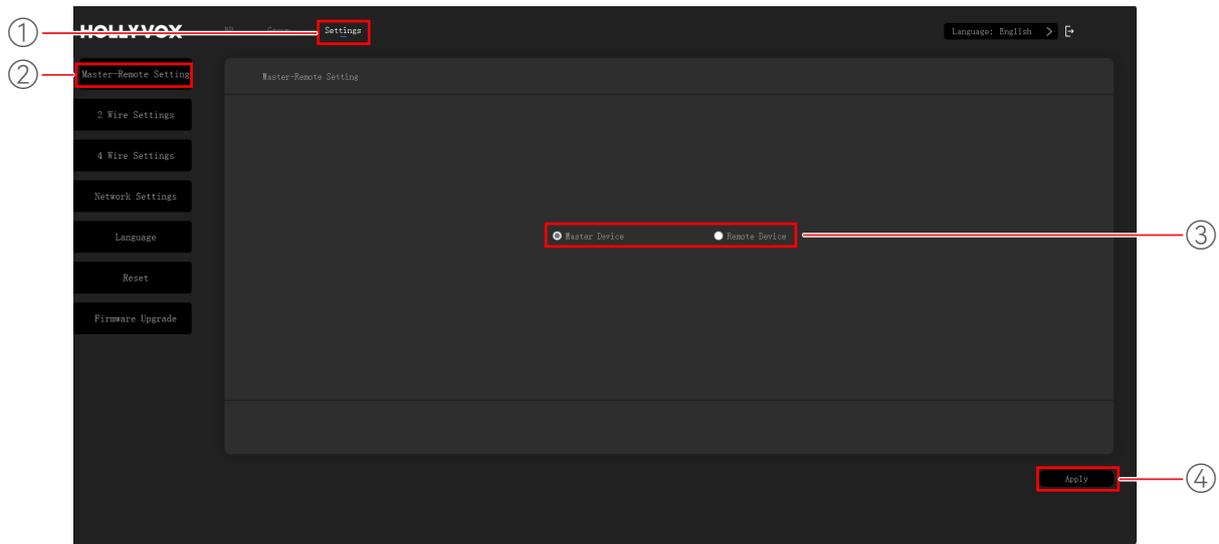
Click **Settings** to access the settings interface.



### 5.4.1 Set the Base Station as the Master or Remote Device

When a single base station is used, the base station needs to be set as the master device. When two stations are used, one base station needs to be set as the master device and the other base station as the remote device. This function can only be used when two base stations are cascaded via the network interface. After configuration, click **Apply** for immediate effect. For the base station set as the master device, the beltpack numbers will automatically change to 1-8; for the base station set as the remote device, the beltpack numbers will automatically change to 9-16. One base station has to be set as the remote device when there is cascade connection. If the base station is set as the remote device when there is only one base station, communication between beltpacks will be disabled. In this case, the base station should be reset as the master device.

# Web Page Settings



- ① Click **Settings**
- ② Click **Master-Remote Setting**
- ③ Set the base station as the master or remote device
- ④ Click **Apply**

## 5.4.2 Configure the Cascaded 2-Wire System

### ① Auto Null

Connect the base station to a 2-wire device. Power on the 2-wire device and turn off or disconnect its microphone to make sure that there is no other audio transmission on the 2-wire link. Otherwise, the accuracy of auto-null settings may be affected. After you select **Auto Null** and press **Confirm**, the base station will perform auto-null settings for the 2-wire device.

### ② Terminal Res

Select **Terminal Res** to check whether the 2-wire device connected via the 2-wire interface has terminal resistance. If it has, select **OFF**. Otherwise, select **ON**.

### ③ Cable Compensation

Select **Cable Compensation** to check the 2-wire cable length and choose the corresponding compensation option according to the cable length.

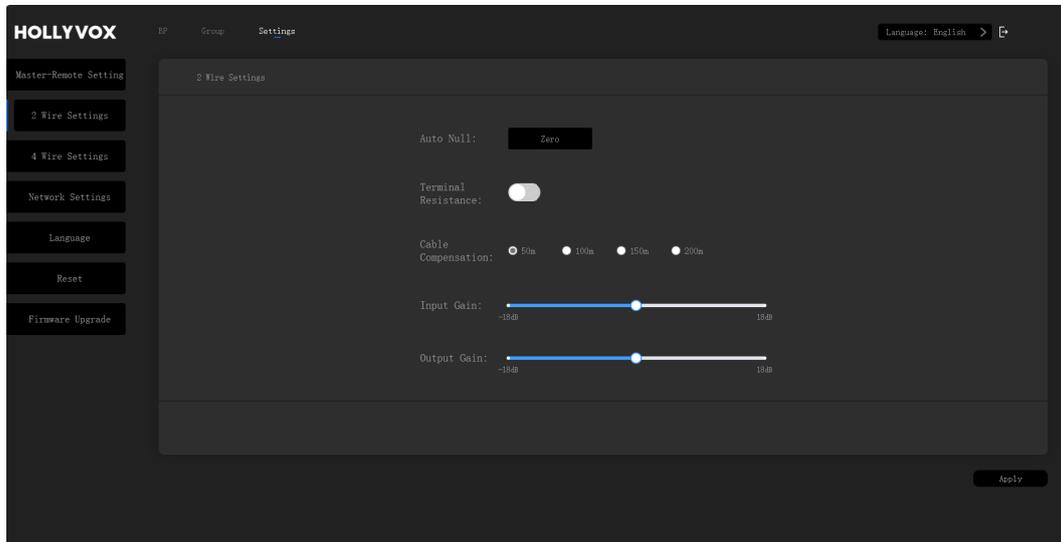
### ④ Input Gain

You can perform a linear adjustment of the 2-wire input gain, with a gain adjustment range of  $-18\text{dB}$ - $18\text{dB}$ , in  $1\text{dB}$  increments.

# Web Page Settings

## ⑤ Output Gain

You can perform a linear adjustment of the 2-wire output gain, with a gain adjustment range of -18dB-18dB, in 1dB increments.



## 5.4.3 Configure the Cascaded 4-Wire System

### ① Input Gain

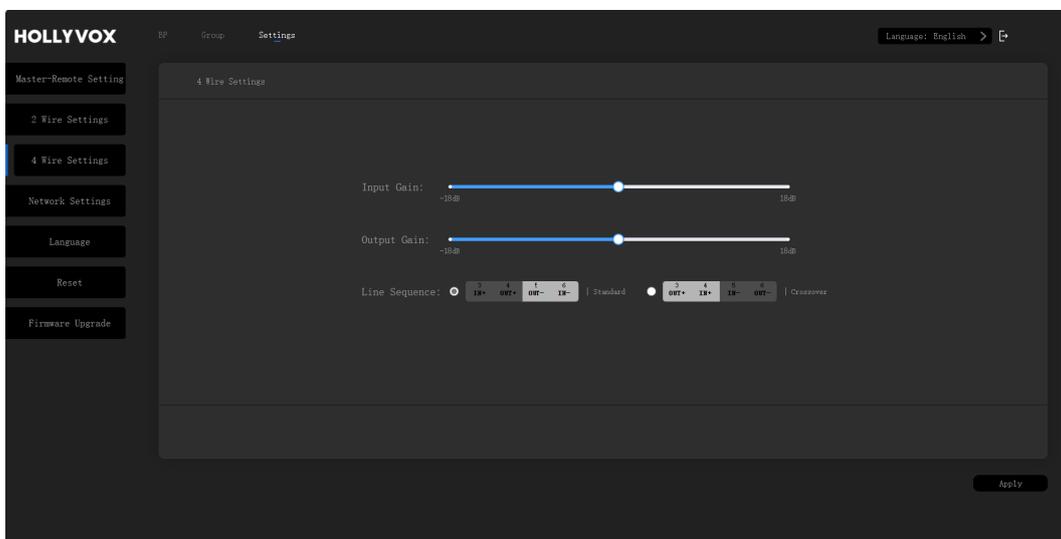
You can perform a linear adjustment of the 4-wire input gain, with a gain adjustment range of -18dB-18dB, in 1dB increments.

### ② Output Gain

You can perform a linear adjustment of the 4-wire output gain, with a gain adjustment range of -18dB-18dB, in 1dB increments.

### ③ Line Sequence Switching

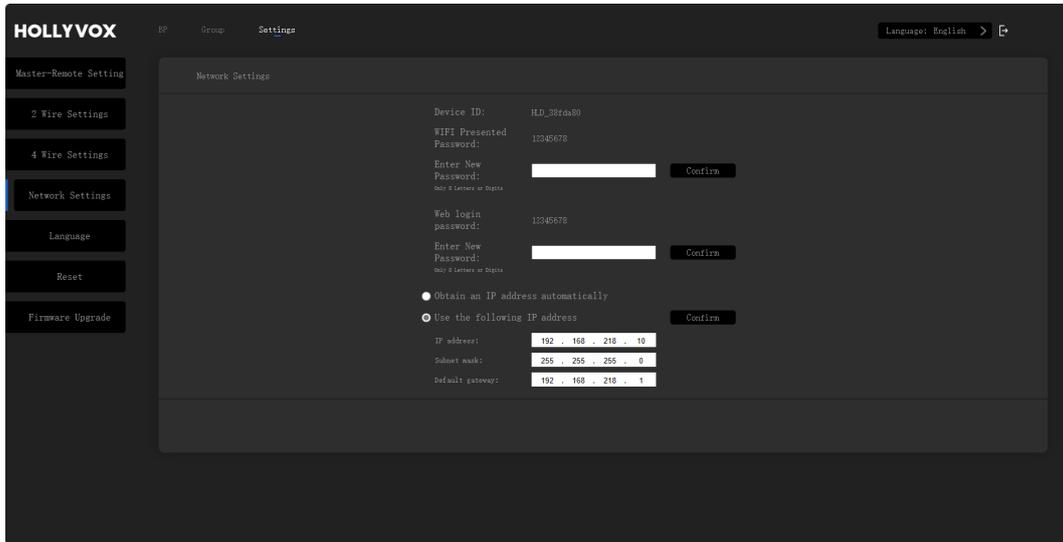
You can perform line sequence switching on the 4-wire audio system.



# Web Page Settings

## 5.4.4 Configure the Network of the Base Station

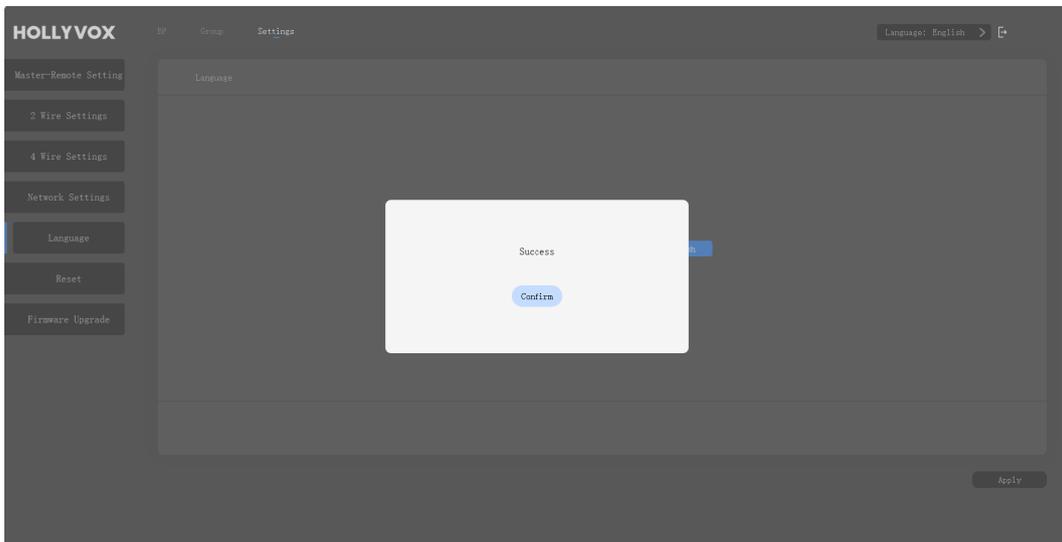
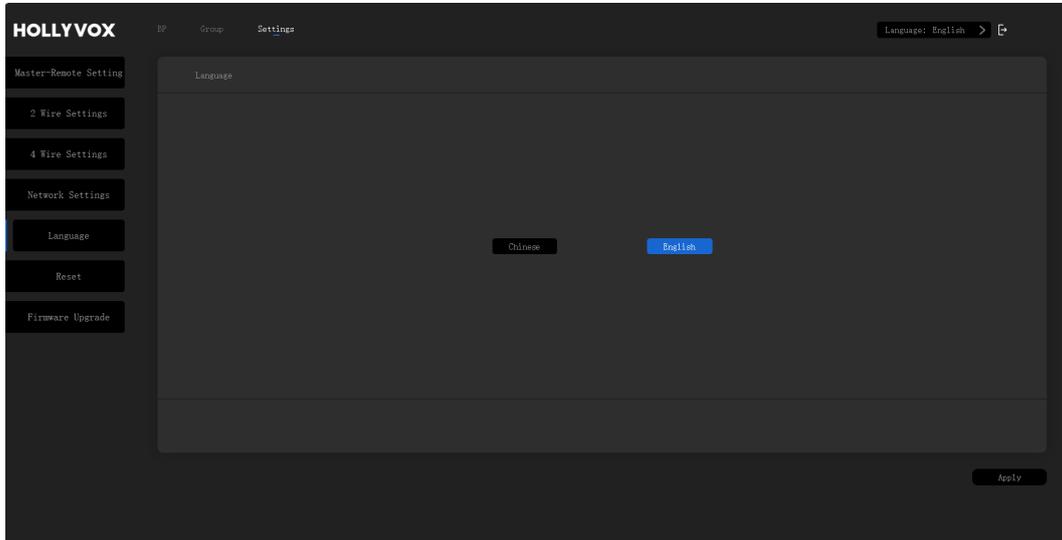
You can change the Wi-Fi password and login password of the base station. After entering the new password, click **Confirm** to apply it immediately. You can also manually set the IP address, subnet mask and default gateway on this interface.



# Web Page Settings

## 5.4.5 Switch the Language of the Base Station

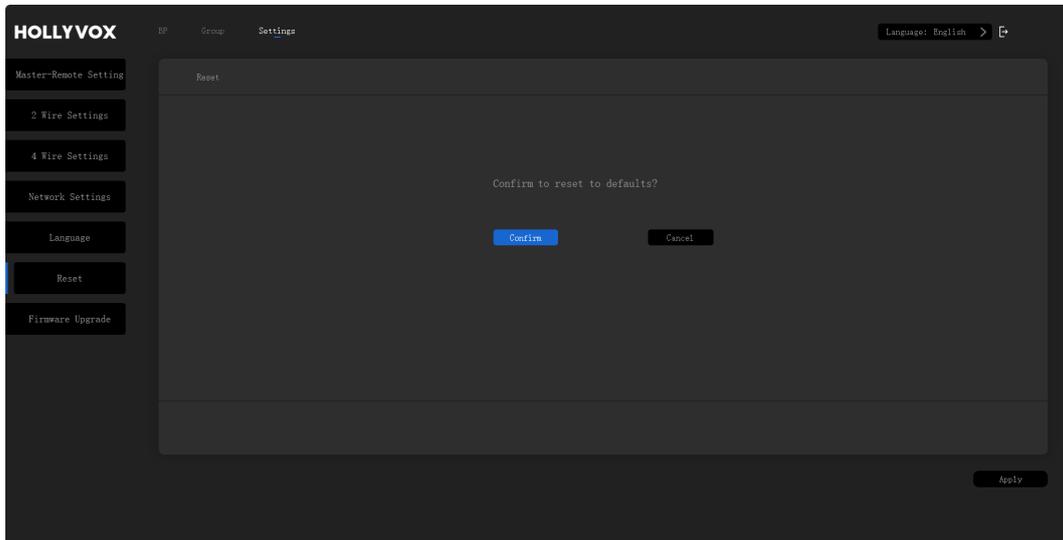
Click Language to switch the language between Chinese and English.



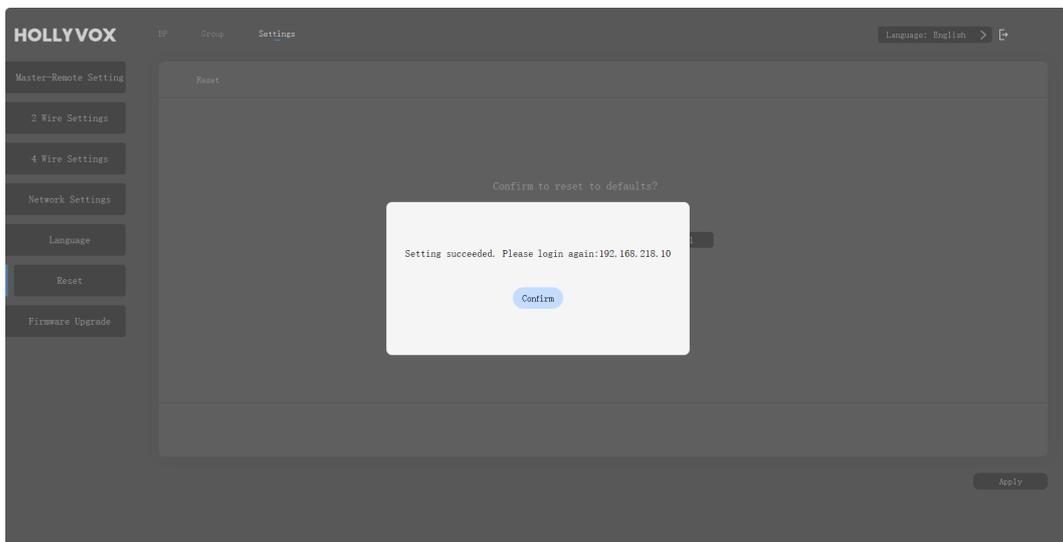
# Web Page Settings

## 5.4.6 Reset the Base Station

Click **Reset**, click **Confirm**, and click **Apply** to reset the base station configuration information to the default settings.



Click **Confirm** and log in again.

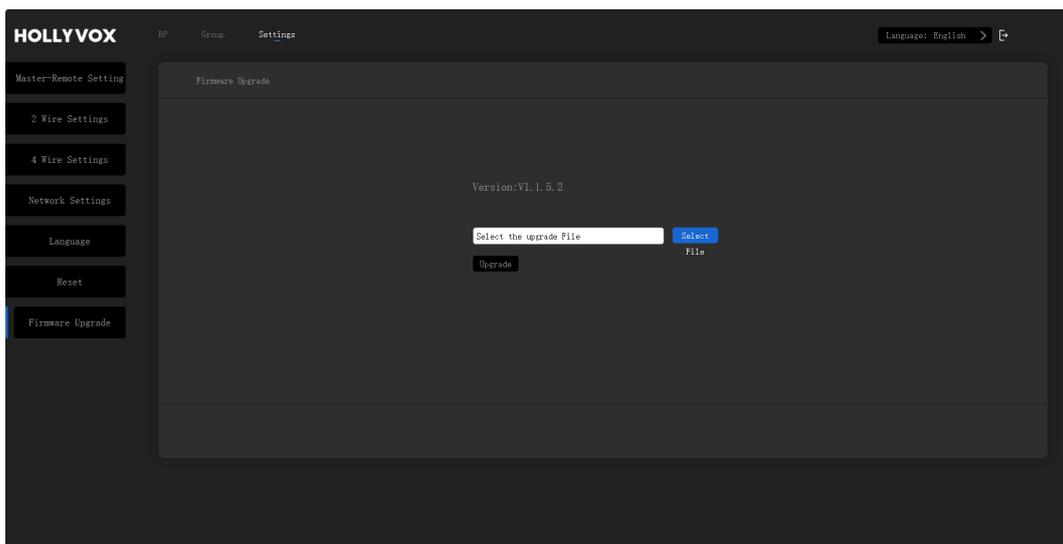


# Web Page Settings

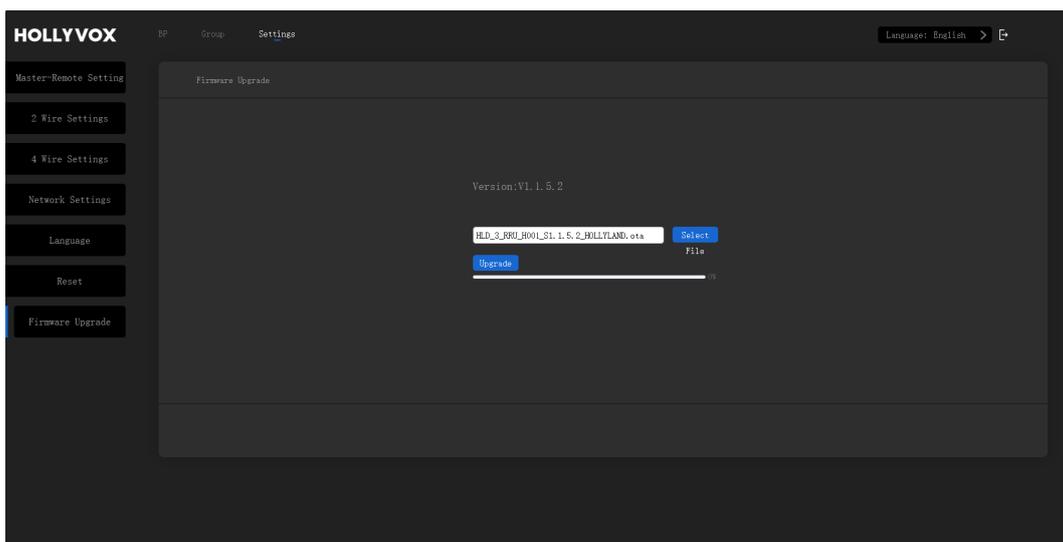
## 5.4.7 Upgrade the Firmware of the Base Station

**Note:** You can obtain the firmware installation file for the base station by either requesting technical support or downloading it from the official website.

① Download the firmware to the computer, click **Select**, choose the firmware file and click **Upgrade**.

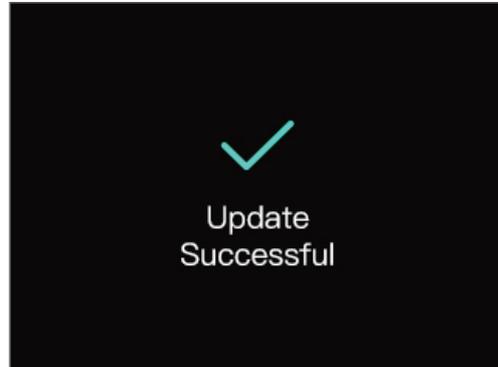
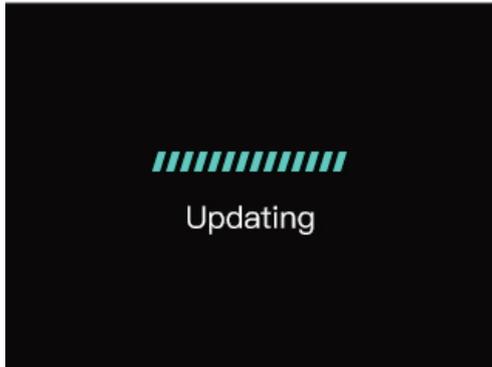


② Wait until the upgrading progress reaches 100%.

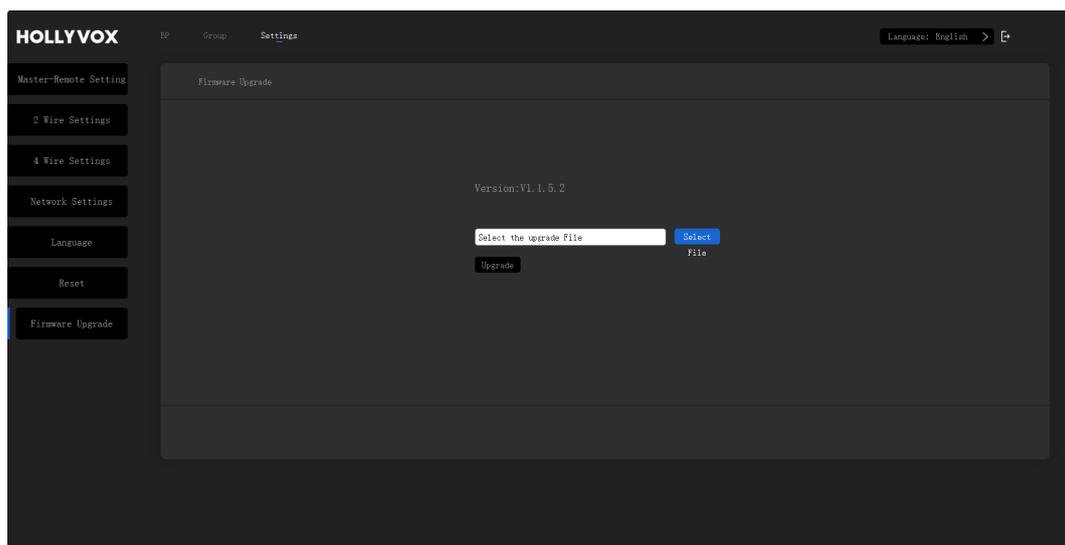


# Web Page Settings

③ After successfully upgrading the firmware, the base station will automatically proceed with the upgrade.



④ Once the upgrade is successful, the version displayed on the Web Page will switch to the latest upgraded version.

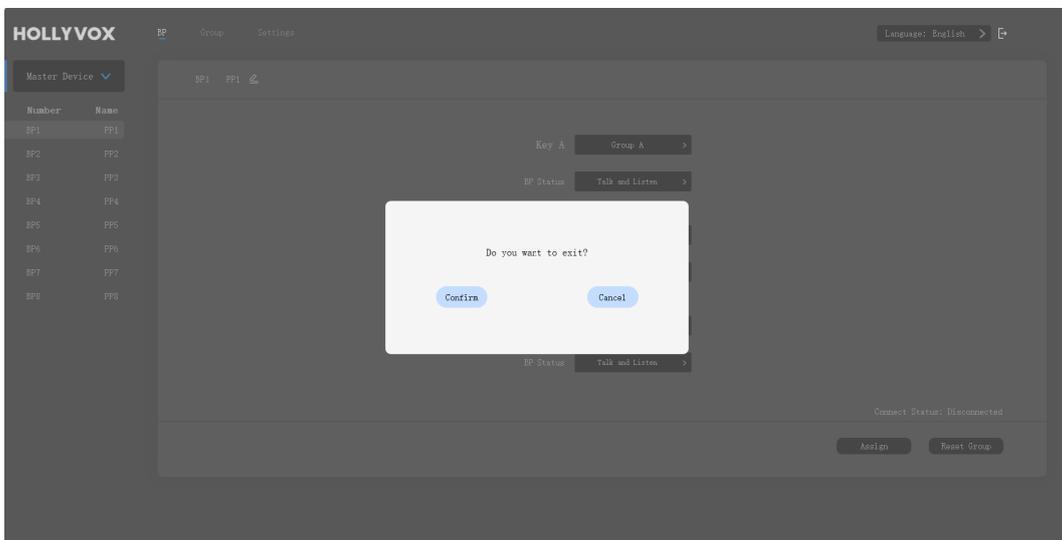
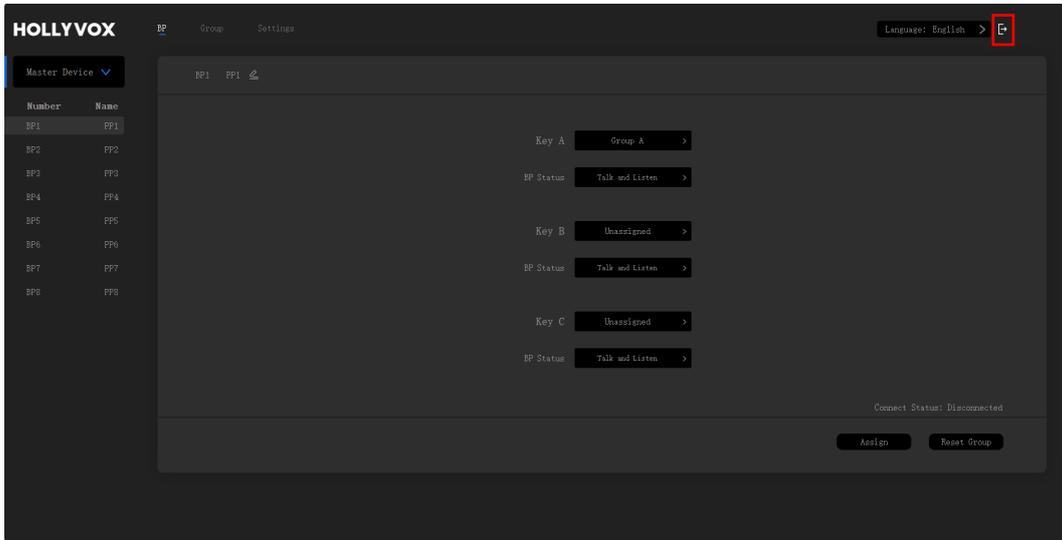


**Note:** If the base station and beltpack firmware versions are not the same, you need to use a USB-A to USB-C cable to connect the beltpack to the base station. The base station will automatically update the beltpack's firmware to match its own firmware. After upgrading the beltpack firmware, you will need to re-pair the beltpack with the base station again for it to function properly.

# Web Page Settings

## 5.5 Exit Web

After finishing your operations on the device, click the exit icon, and then click **Confirm** to exit the page.



# Hollyvox APP

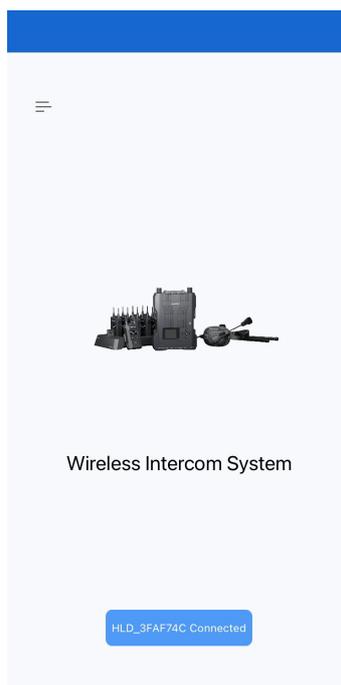
## 6.1 Download the Hollyvox APP

Scan the QR code below to download the Hollyvox app.



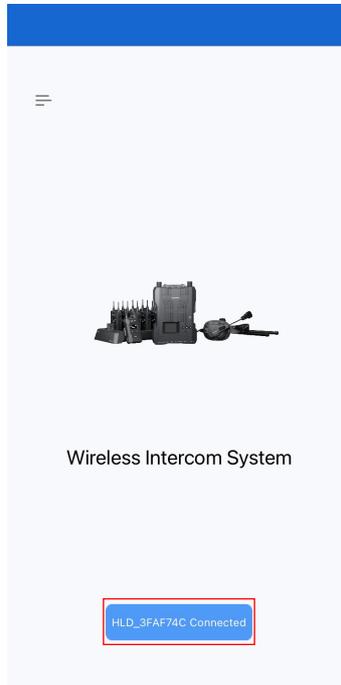
## 6.2 Connect the Phone to the Wi-Fi of the Base Station

Turn on the Wi-Fi of the base station, find the Wi-Fi network starting with “HLD” on a mobile phone, and then open the Hollyvox app. (You can turn on the Wi-Fi and check the corresponding SSID and password through the base station’s network menu.) When the phone successfully connects to the Wi-Fi, the app will display “HLD\_XXXXX Connected”.

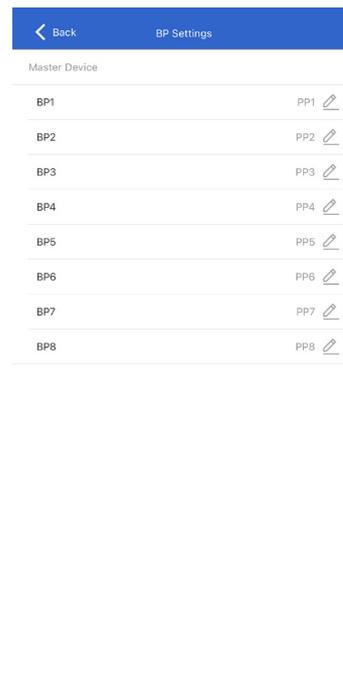
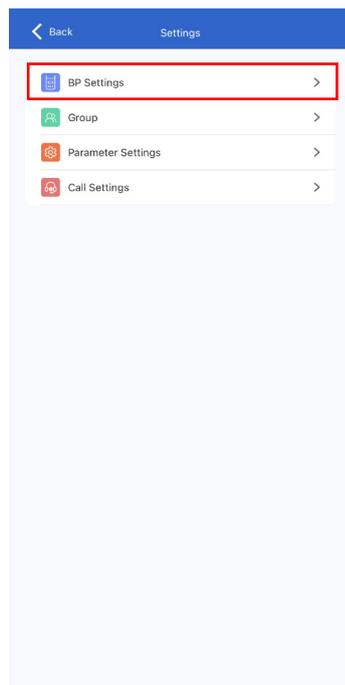


## 6.3 Configure the Beltpack

① Tap HLD\_XXXXX Connected.

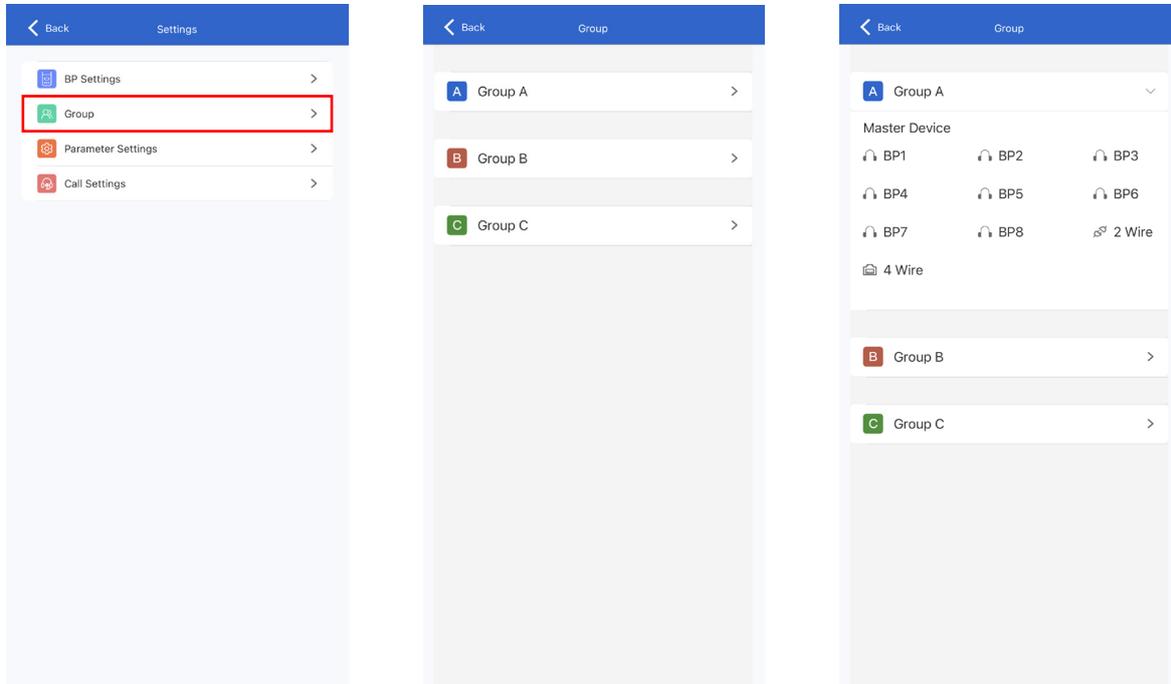


② Menu options such as **BP Settings**, **Group**, **Parameter Settings** will be displayed. Click **BP Settings** to access the interface. Tap a beltpack to assign a name.



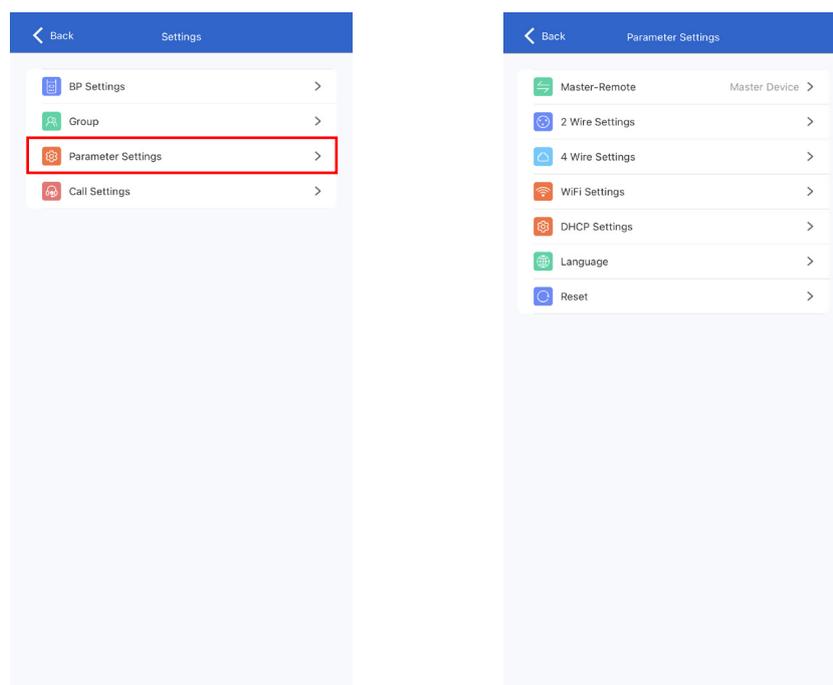
## 6.4 Check the Grouping

Select Group to check the grouping.



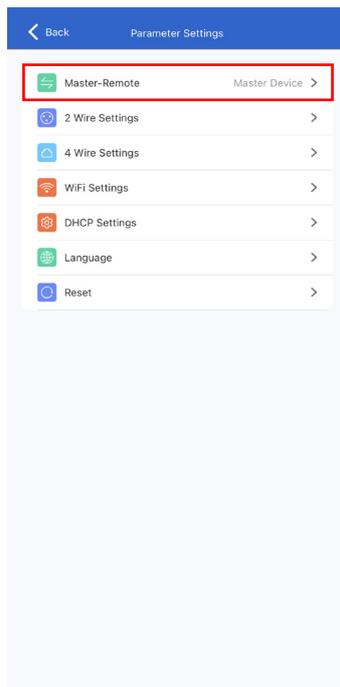
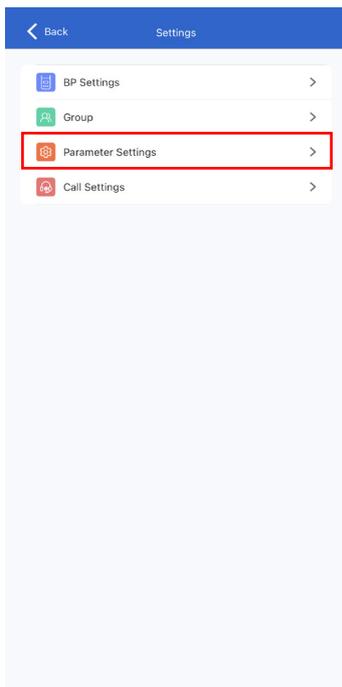
## 6.5 Configure Parameters

① Select Parameter Settings to access the interface. In this interface, you can configure settings including Master-Remote, 2-Wire Settings, 4-Wire Settings, Wi-Fi Settings, Language, and Reset.



## 6.5.1 M&R Settings

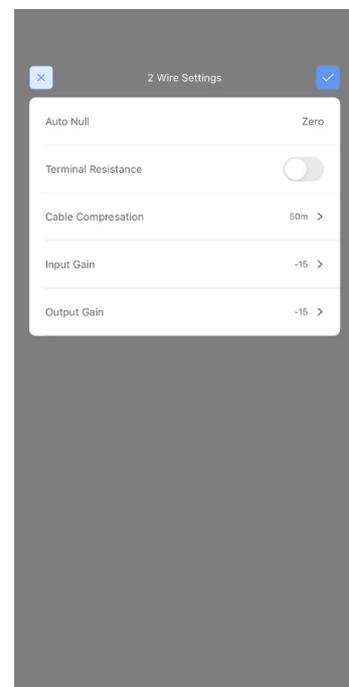
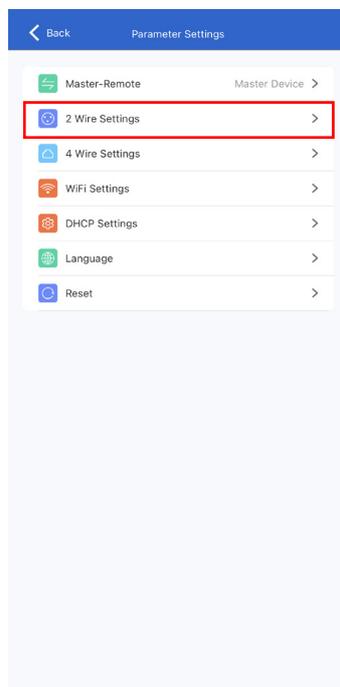
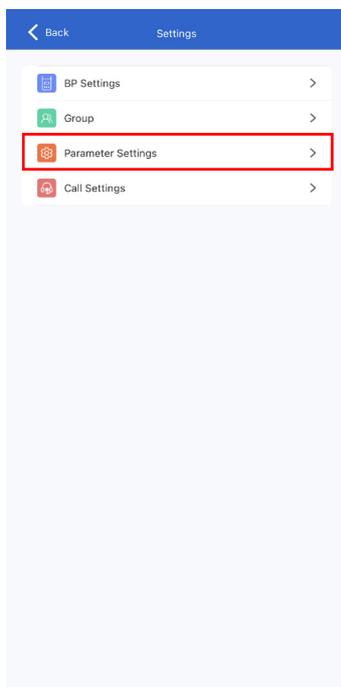
Select **Parameter Settings** to enter the **Master-Remote** interface, where you can set the master or remote device for the base station. When a single base station is used, the base station needs to be set as the master device. When two stations are used, one base station needs to be set as the master device and the other base station as the remote device. This function can only be used when two base stations are cascaded via the network interface. After configuration, tap **Apply** for immediate effect. For the base station set as the master device, the beltpack numbers will automatically change to 1-8; for the base station set as the remote device, the beltpack numbers will automatically change to 9-16. One base station has to be set as the remote device when there is cascade connection. If the base station is set as the remote device when there is only one base station, communication between beltpacks will be disabled. In this case, the base station should be reset as the master device.



## 6.5.2 2-Wire Settings

### ① Auto Null

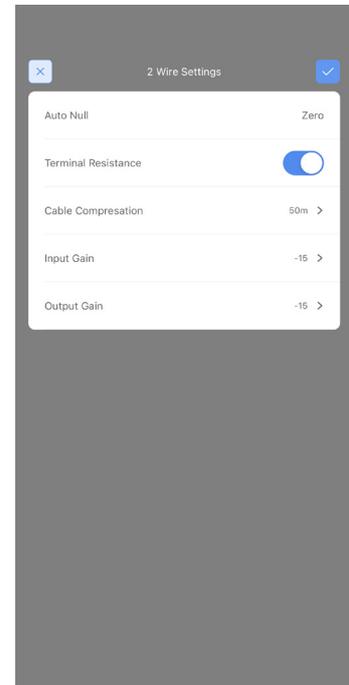
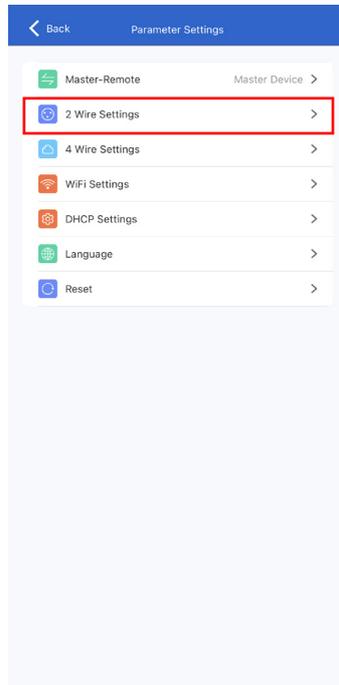
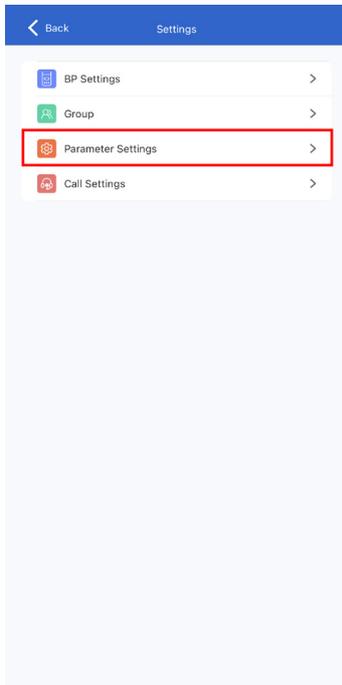
Connect the base station to a 2-wire device. Power on the 2-wire device and turn off or disconnect its microphone to make sure that there is no other audio transmission on the 2-wire link. Otherwise, the accuracy of auto-null settings may be affected. After you select **Auto Null** and press **Confirm**, the base station will perform auto-null settings for the 2-wire device.



# Hollyvox APP

## ② Terminal Resistance

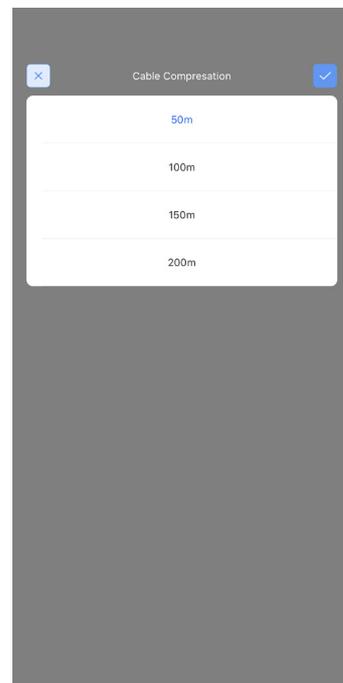
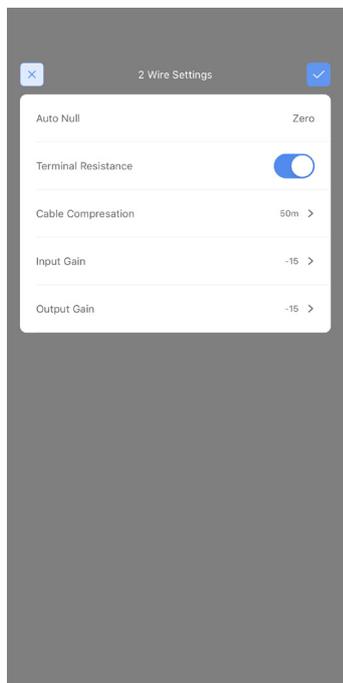
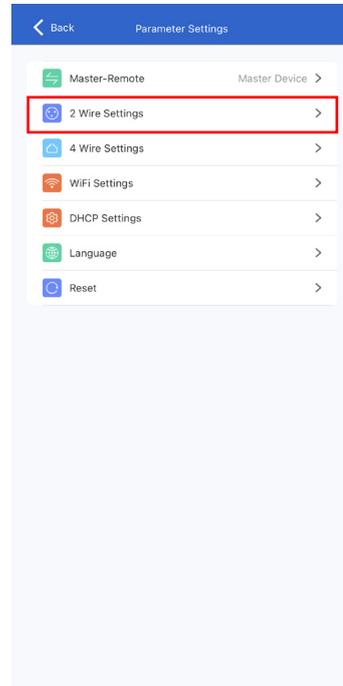
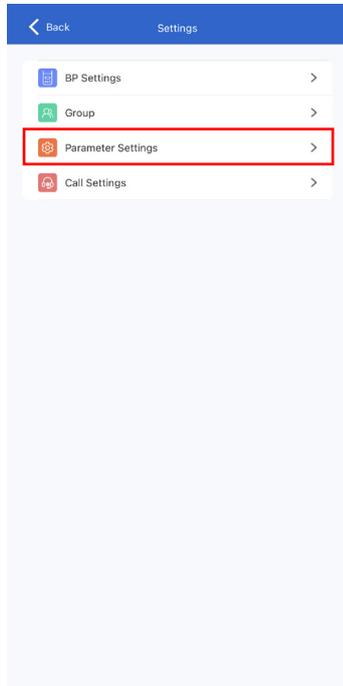
Select **Terminal Resistance** to check whether the 2-wire device connected via the 2-wire interface has terminal resistance. If it has, select **OFF**. Otherwise, select **ON**.



# Hollyvox APP

## ③ Cable Compensation

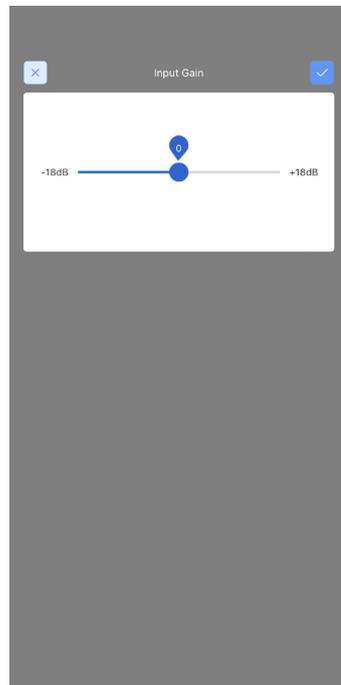
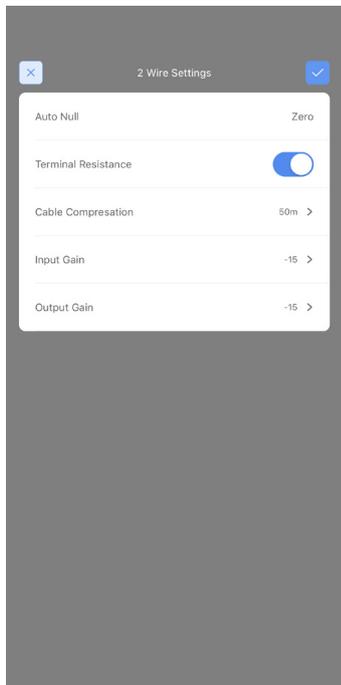
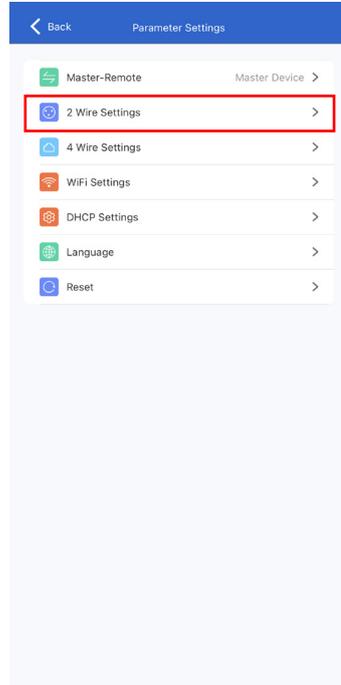
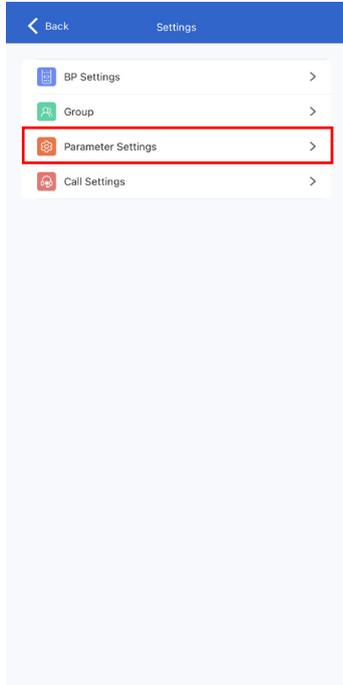
Select **Cable Compensation** to check the 2-wire cable length and choose the corresponding compensation option according to the cable length.



# Hollyvox APP

## ④ Input Gain

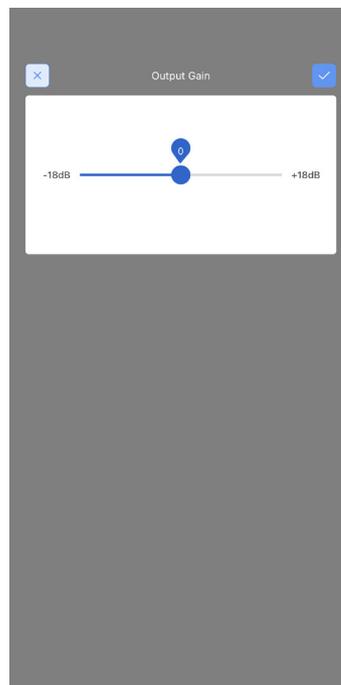
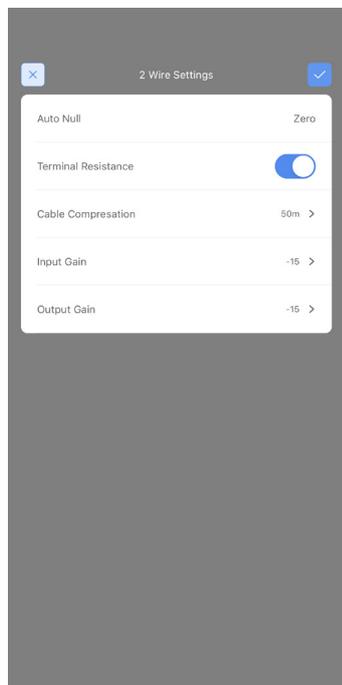
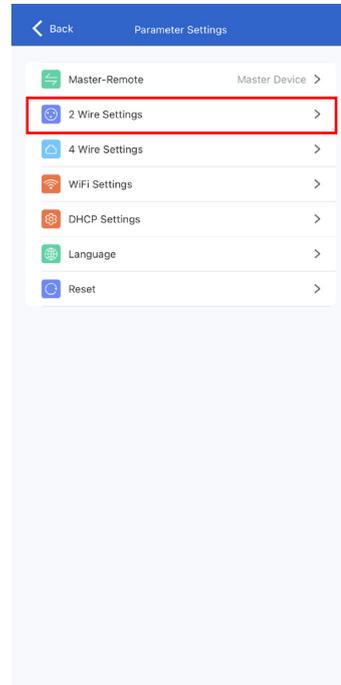
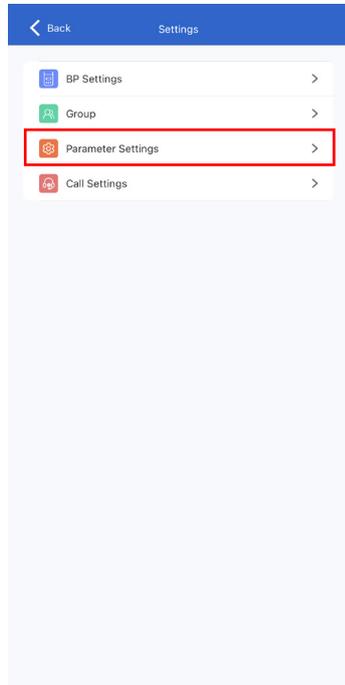
You can adjust the setting to increase or decrease the input signal by the corresponding value.



# Hollyvox APP

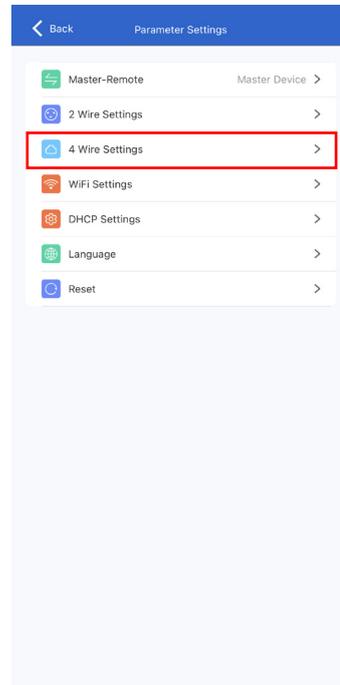
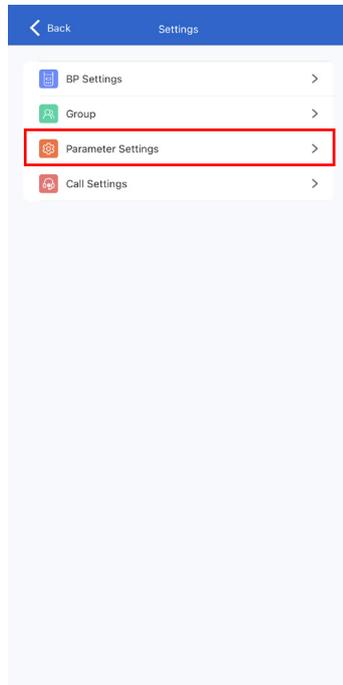
## ⑤ Output Gain

You can adjust the setting to increase or decrease the output signal by the corresponding value.



## 6.5.3 4-Wire Settings

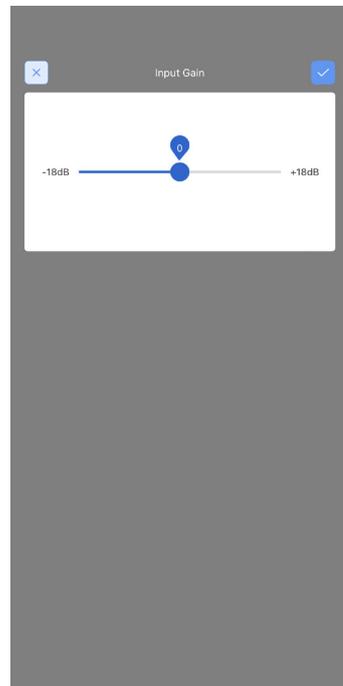
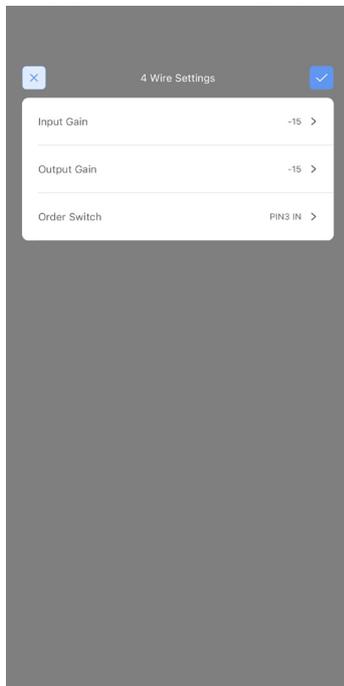
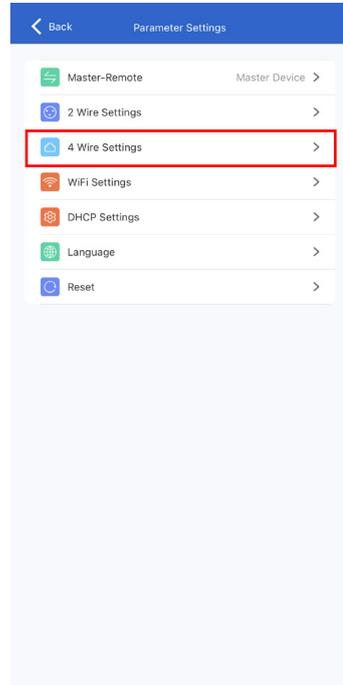
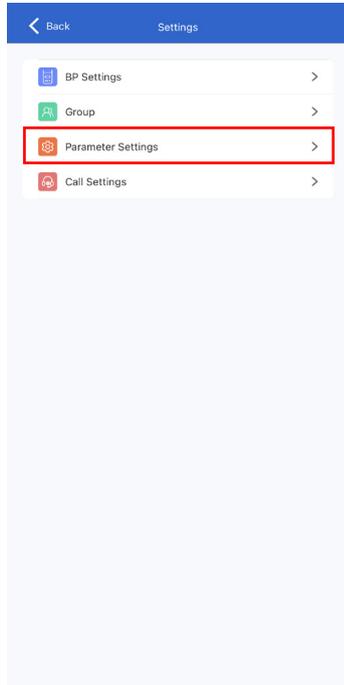
Select 4-Wire Settings to access the interface.



# Hollyvox APP

## ① Input Gain

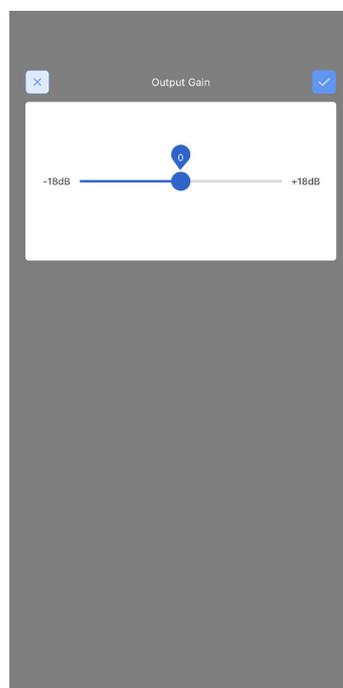
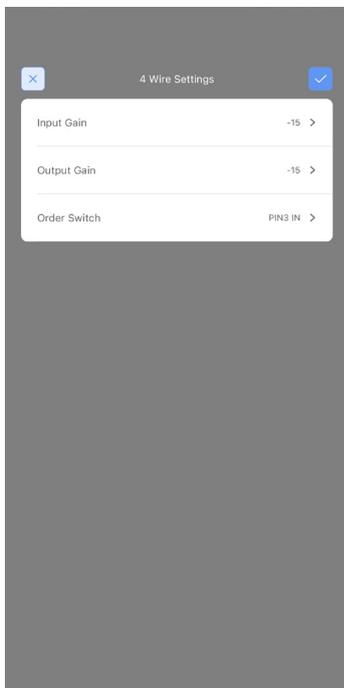
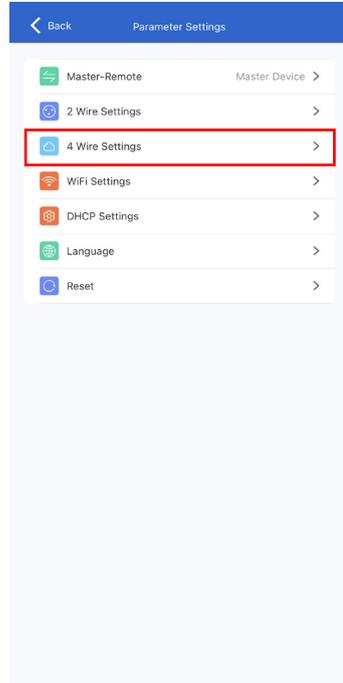
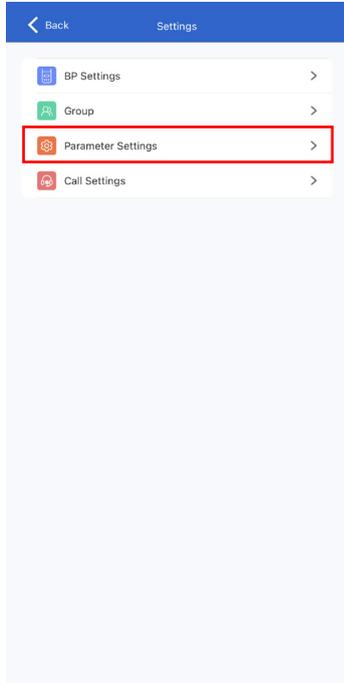
You can adjust the input gain of the 4-wire audio system.



# Hollyvox APP

## ② Output Gain

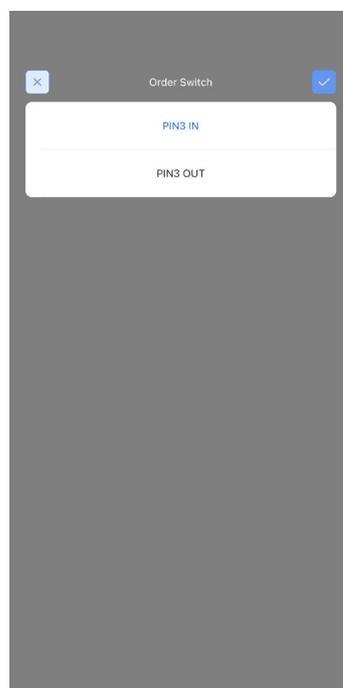
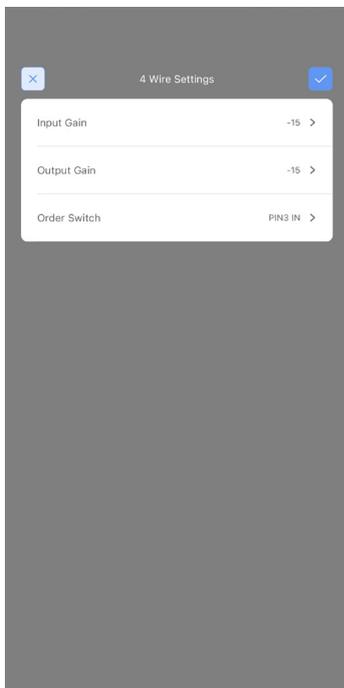
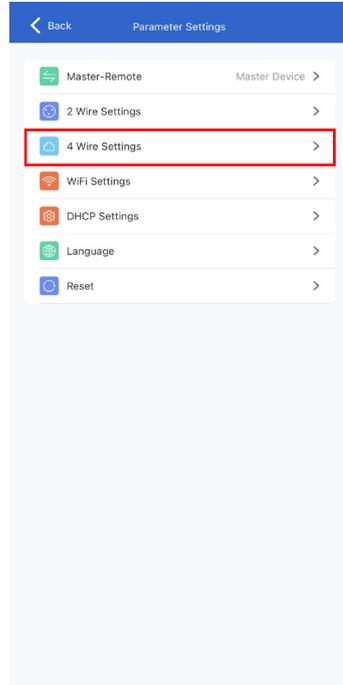
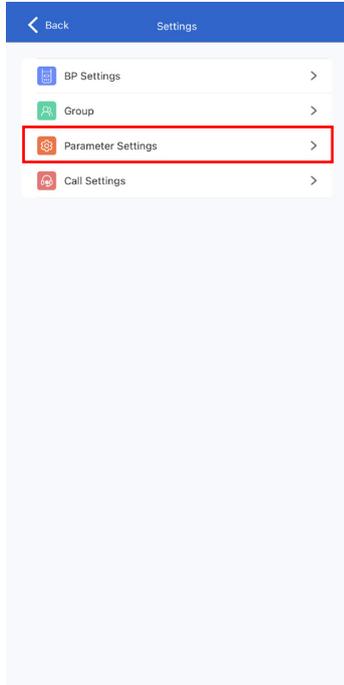
You can adjust the input gain of the 4-wire audio system.



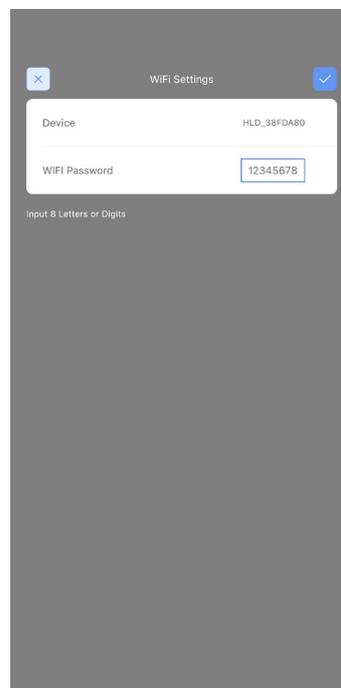
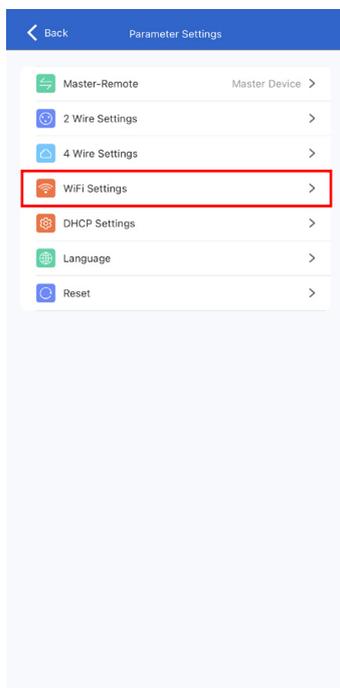
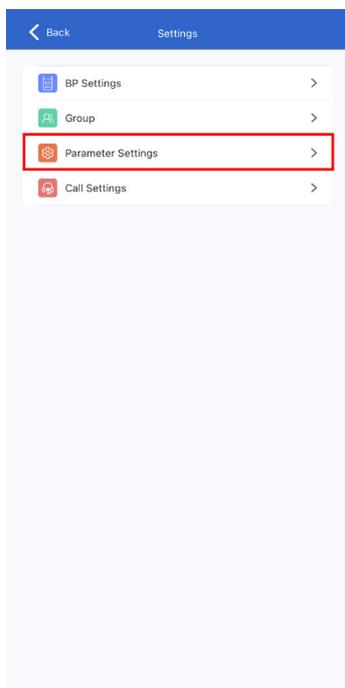
# Hollyvox APP

## ③ Line Sequence Switching

You can perform line sequence switching on the 4-wire audio system.

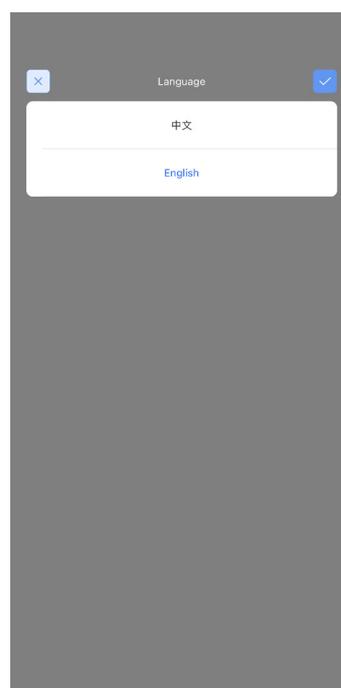
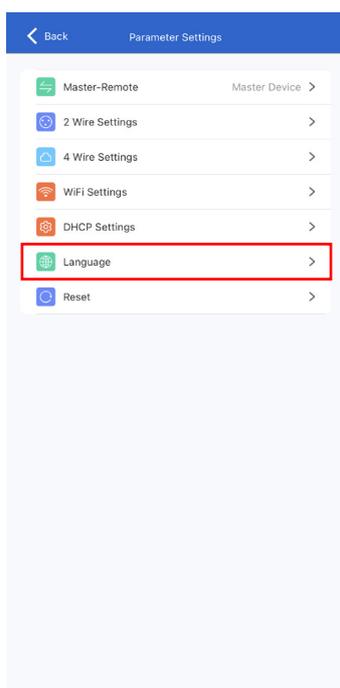
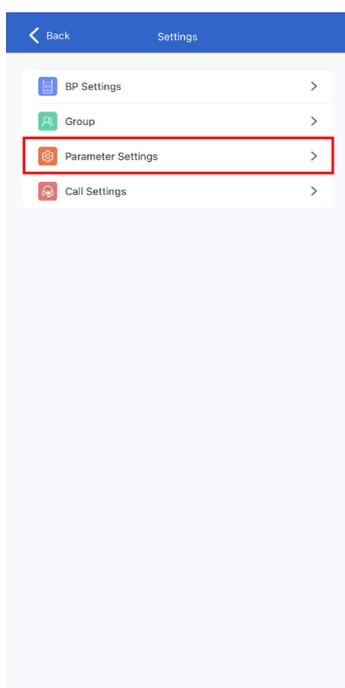


## 6.5.4 Wi-Fi Settings



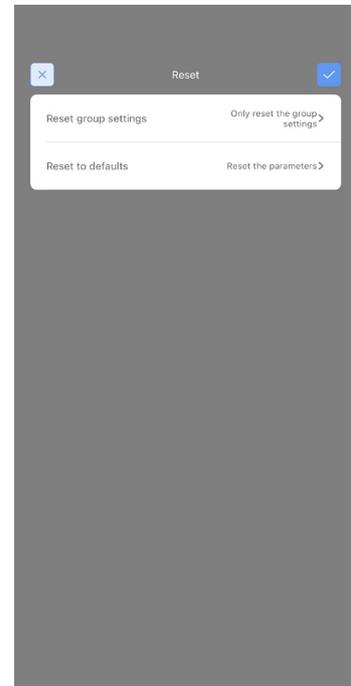
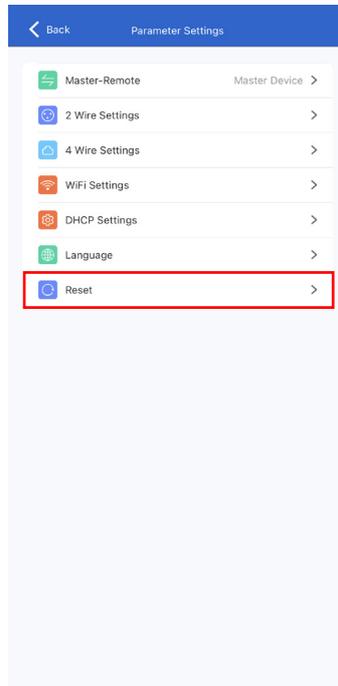
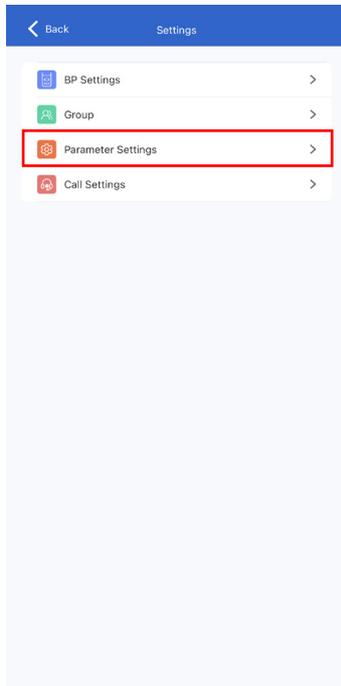
## 6.5.5 Language

Select **Language** to switch the device language between Chinese and English. Select **Parameter Settings** to access the language interface for switching between Chinese and English. Tap  to apply.

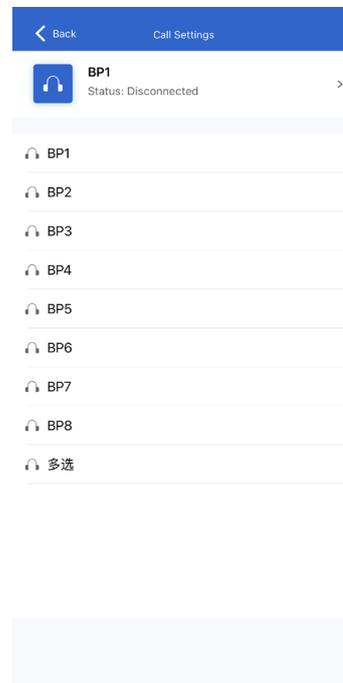
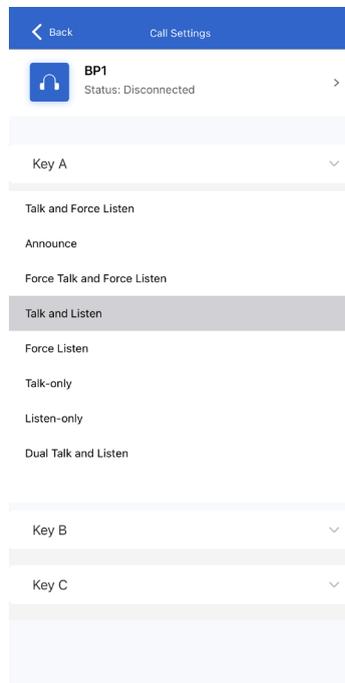
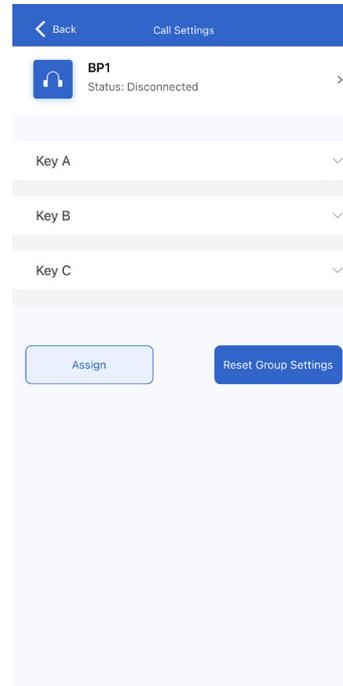
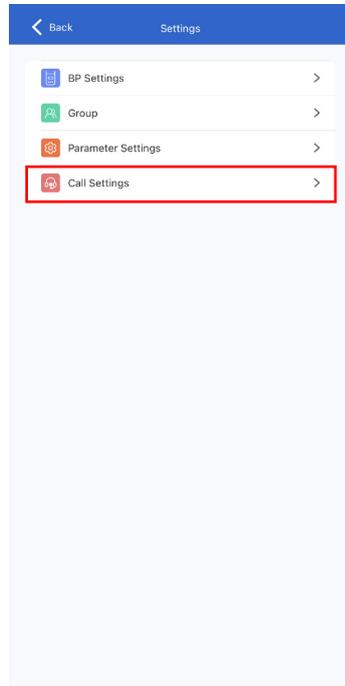


## 6.5.6 Reset

Select **Parameter Settings** for access to the reset interface to perform the corresponding reset function.

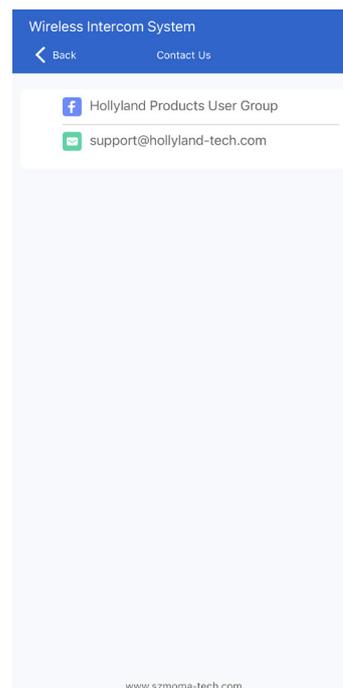
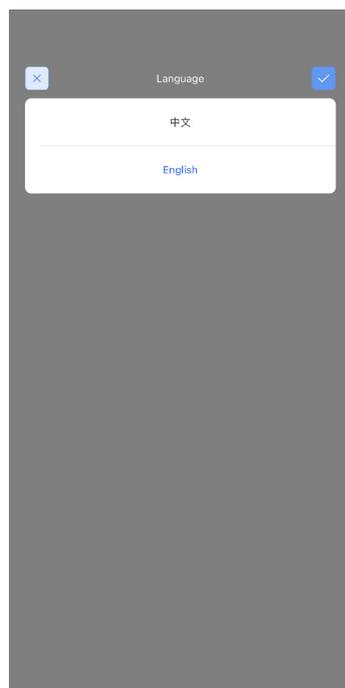
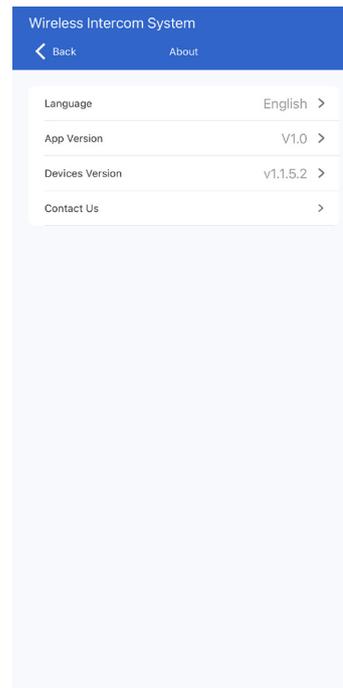
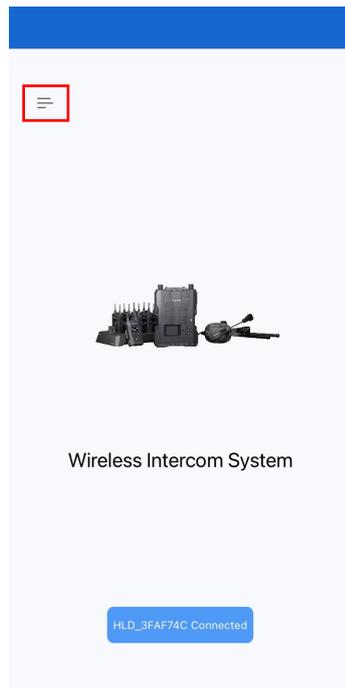


## 6.5.7 Call Settings



## 6.6 Hollyvox App General Settings

Tap the menu in the top left corner of the app to access the general settings interface. On the interface, you can configure the app's language, view app version information, check the version information of the base station, and find manufacturer contact details.



# Specifications

	Base Station	Beltpack
Interface	POE interface (RJ45) Power supply interface (RJ45) 4-wire audio interface 2-wire audio interface USB interface	3.5mm headset jack 0B10 headset interface USB-C interface
Power Supply	POE power supply NP-F battery	1500mAh lithium polymer battery
Frequency Response	150 Hz-7 kHz	ENC off: 200 Hz-7 kHz ( $\pm 6$ dB) ENC on: 200 Hz-7 kHz ( $\pm 10$ dB)
Signal-to-Noise Ratio	> 55dB	60dB $\pm 2$
Distortion	< 1%	< 1%
LOS Range	1,300ft (400m)	1,300ft (400m)
Frequency Band	1.9GHz	1.9GHz
Modulation Mode	GFSK	GFSK
TX Power	< 21dBm	< 21dBm
RX Sensitivity	$\leq -93$ dBm	$\leq -93$ dBm
Bandwidth	1.728MHz	1.728MHz
Power Consumption	< 3W	< 0.6W
Dimensions	(L×W×H): 255.5mm×180.4mm×48.5mm (10" ×7.1" ×1.9" )	(L×W×H): 105mm×65mm×22.4mm (4.13" ×2.56" ×0.88" )
Net Weight	Approx. 1560g (55oz)	Approx. 200g (7oz)
ENC Noise-canceling Level	/	20dB
Temperature Range	0°C to 45°C (working condition) -20°C to 60°C (storage condition)	0°C to 45°C (working condition) -20°C to 60°C (storage condition)

# Specifications

	Single-Ear Headset	Double-Ear Headset
Interface	0B10	0B10
Cable Length	4.9ft (1.5m)	4.9ft (1.5m)
Frequency Response	200 Hz-7 kHz (±6dB)	200 Hz-7 kHz (±6dB)
Max SPL Input	> 117dB SPL	> 117dB SPL
Max SPL Output	> 116dB SPL	> 115dB SPL
Mic Type	Electret	Electret
Mic Polar Pattern	Main: Supercardioid Secondary: Omnidirectional	Main: Supercardioid Secondary: Omnidirectional
Speaker Impedance	300Ω	300Ω
Net Weight	Approx. 320g (11.3oz) (with headset cable)	Approx. 410g (14.5oz) (with headset cable)
Temperature Range	0°C to 45°C (working condition) -20°C to 60°C (storage condition)	0°C to 45°C (working condition) -20°C to 60°C (storage condition)

# Support

If you encounter any problems in using the product or need any help, please contact Hollyvox Support Team via the following ways:

 [hollyvox.global](https://www.facebook.com/hollyvox.global)

 [hollyvox.global](https://www.instagram.com/hollyvox.global)

 [hollyvox.global](https://www.youtube.com/hollyvox.global)

 [hollyvoxglobal](https://www.linkedin.com/company/hollyvoxglobal)

 [support@Hollyvox.com](mailto:support@Hollyvox.com)

 [www.hollyvox.com](http://www.hollyvox.com)

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