# Conference Speakerphone Kit
# User Manual

# Attention

This manual describes in detail the function, installation and general principles and methods of operation of this equipment. Please read carefully before installation and operate.

**1. How to use**

To prevent damage to this product or any product connected to it, use this product only within the limits specified:

- Do not expose the device to rain or moisture;
- To prevent the risk of electric shock, do not open the device case, and only perform installation and repairs by qualified technicians;
- Do not use under exceeding temperature, humidity, or power supply specifications.

**2. Electrical safety**

The installation and use of this product must strictly comply with various local electrical safety standards.

**3. Careful transportation**

During storage and installation, it is necessary to prevent damage to the product caused by heavy pressure, severe vibration, and soaking.

**4. Careful installation**

- The shell of this product is made of organic materials, and it is strictly forbidden to contact with various liquids, gases or solid substances that may cause the shell to corrode;
- Do not hit the device too hard or it may cause mechanical failure.

5. **Do not disassemble this product without authorization.** This product has no parts that can be repaired by the user. Damage caused by disassembly by the user is not covered by the warranty.
6. **Electromagnetic fields at certain frequencies may affect audio quality.** In an indoor environment it may cause radio interference in which case the user is required to take appropriate measures to avoid it.

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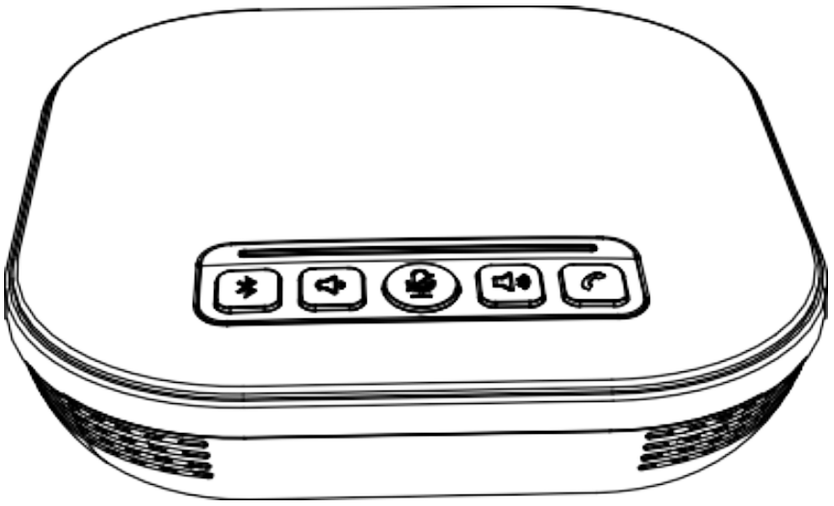
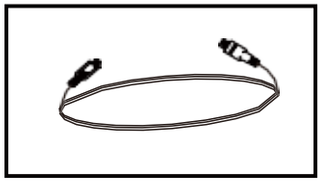
# Omnidirectional Speakerphone Component

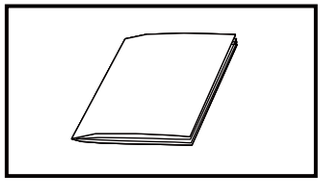
Main Unit



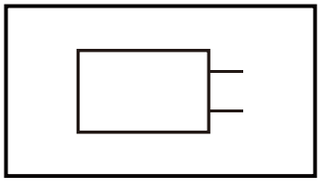
Standard Accessories



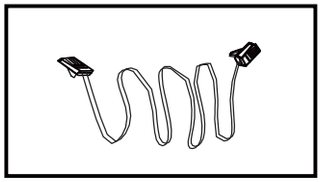
USB
Cable



User Manual

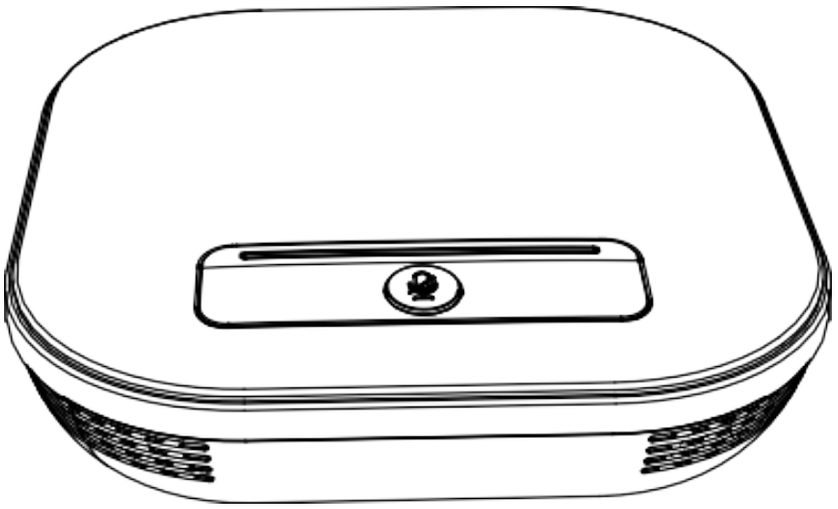


Power
Adapter



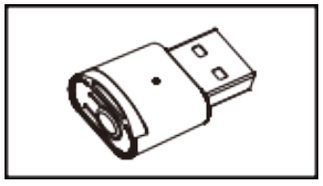
5m Customized
Network Cable

Expansion unit



## Optional Accessories

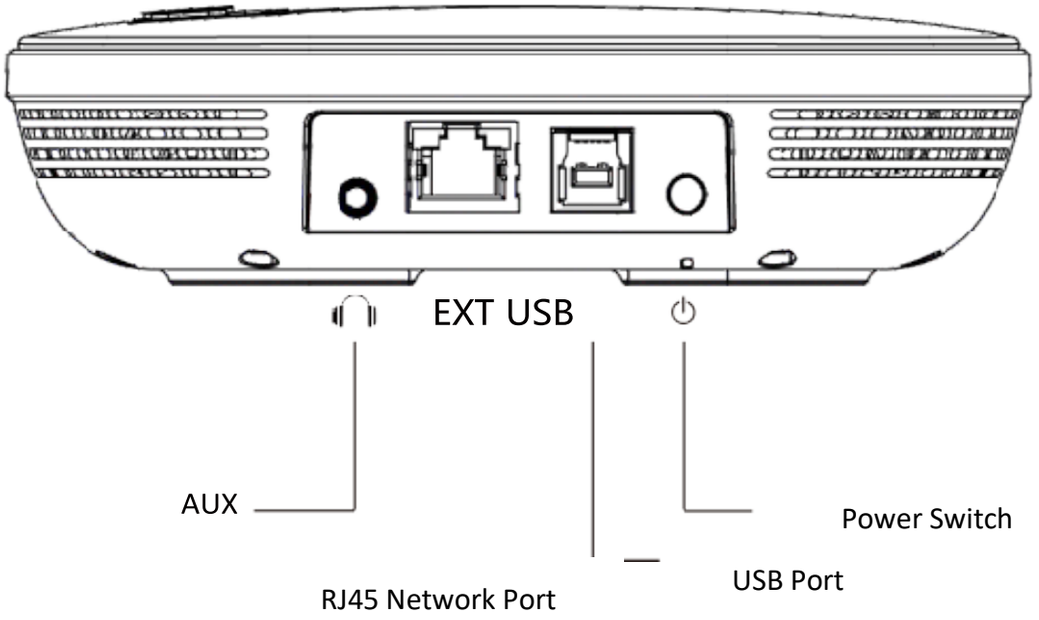
Please purchase below accessories to expanse your speakerphone functions



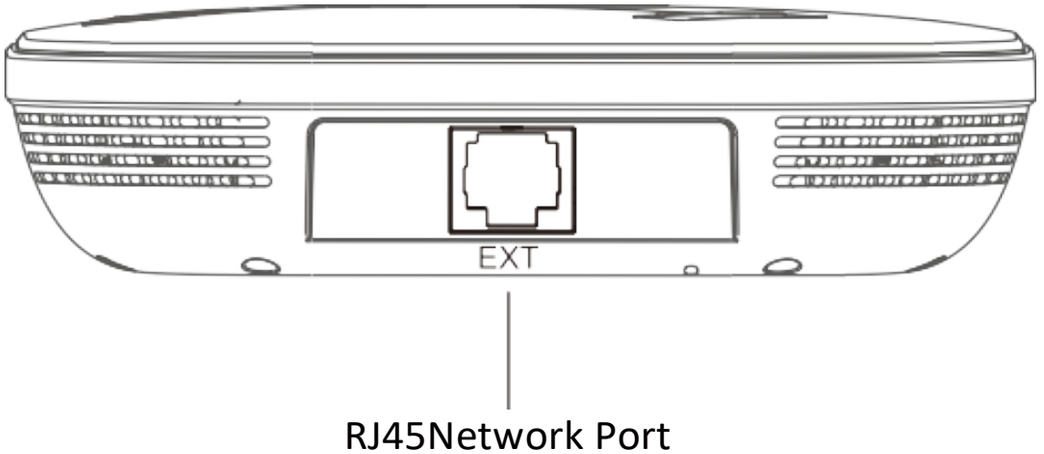
Bluetooth Adapter

If the any accessory is missing or damaged, please contact sales immediately. Do not use damaged device!

# Conference Omnidirectional Speakerphone Interfaces




## Expansion Unit

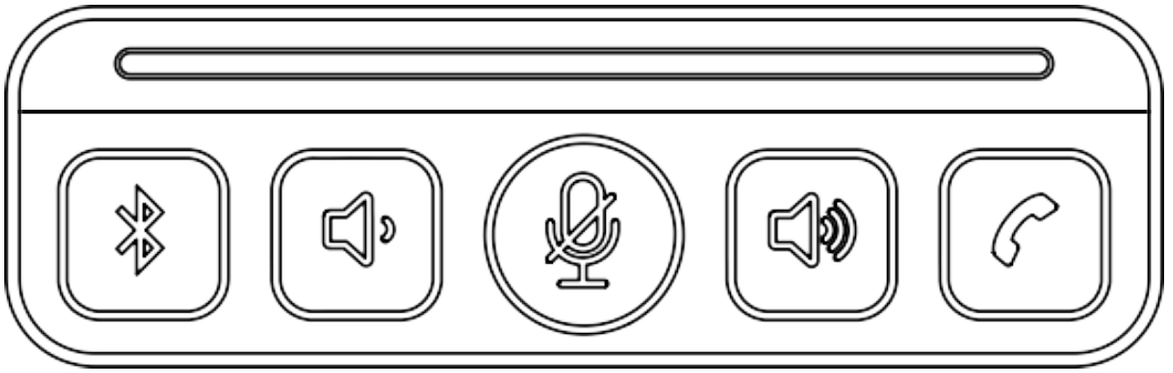


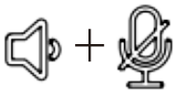
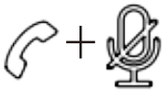
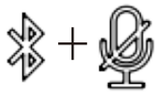
# Conference Omnidirectional Speakerphone Main Unit

Keys Instruction：

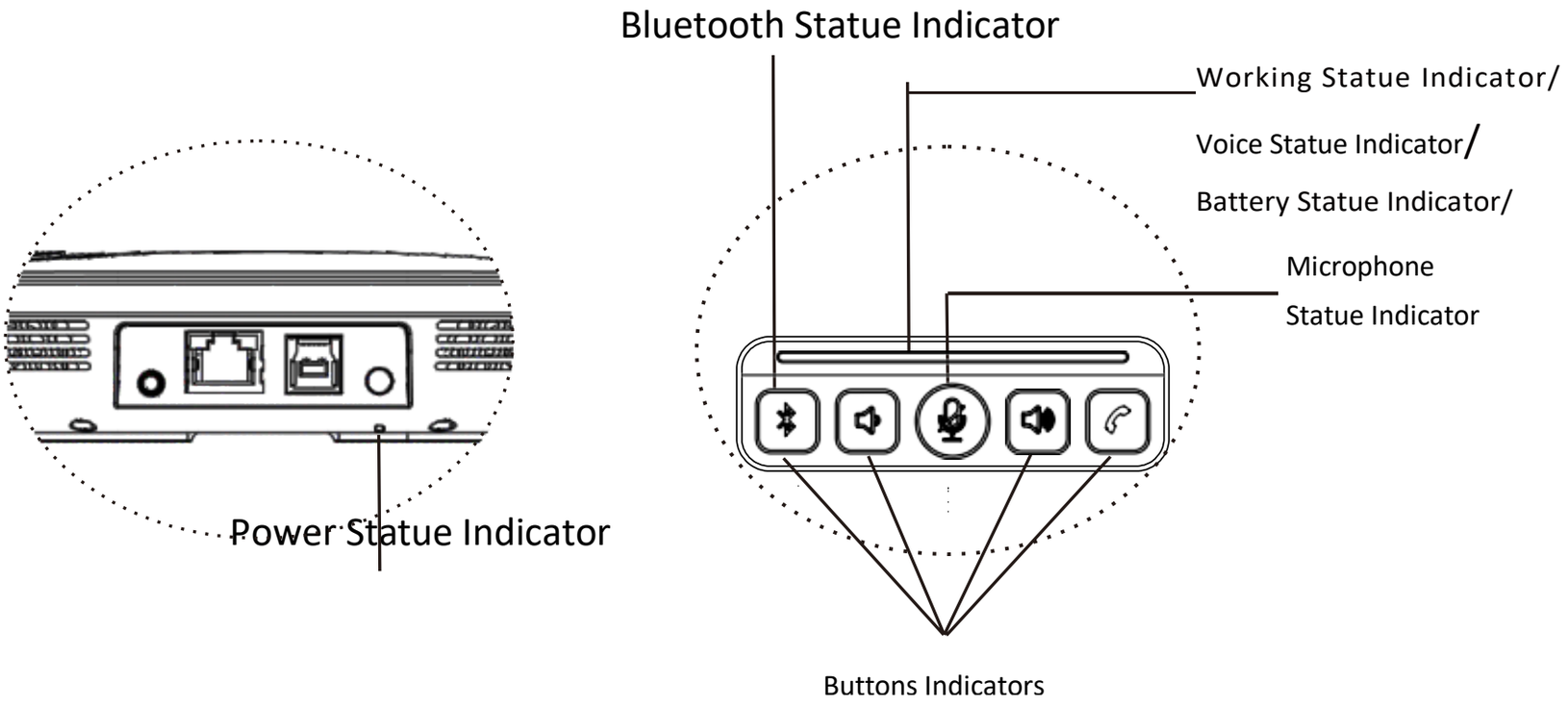
Special Note：

When adjusting the volume, the working status indicator turns into a volume status indicator, and the green light length of the volume status indicator will change according to the volume of the speaker. When the volume is higher, the longer it is; when the volume of the speaker is lower, the green light length of the volume status indicator is shorter. When the power button is tapped, the working status indicator will be converted into a power status indicator, and the remaining power of the machine will be displayed as the length of the red light.



| | | |
|---|---|---|
| | Volume Key | Turn up/down the volume |
| | Bluetooth Key | Turn on/off Bluetooth |
| | On/off hook Key | On/off hook |
| | Mute Key | Turn on/off microphone |
| | PC Mode | Press “volume key” and “Mute key” simultaneously for 5 seconds, then the green indicator flashes 5 seconds to indicate that PC mode is activated. |
|  | Phone Mode | Press “volume down” and “Mute Key” simultaneously for 5 seconds, then the green indicator flashes 5 seconds to indicate that phone mode is activated. |
|  | Echo Cancellation Mode | Press “on/off hook” and “Mute Key” simultaneously for 5 seconds, then the indicator flashes 3 times to indicate that echo cancellation mode is activated.The green indicator flashes 3 times and microphone indicator turn red indicate exist echo cancellation mode. |
|  | Earphone Mode | Press “Bluetooth” and “ Mute Key” simultaneously for 5 seconds, then the green indicator flashes 5 seconds to indicate that earphone mode is activated. |

LED Statue Description:




| | | |
|---|---|---|
| Bluetooth Statue Indicator | Green light keeps on | Bluetooth not paired |
| | Blue light flashes | Bluetooth are pairing |
| | Blue light keeps on | Bluetooth connected |
| Keys Indicator | Green light keeps on | Normal working |
| Microphone Indicator | Red light keeps on | Microphone mute |
| | Green light keeps on | Microphone work normally |

| | | |
|---|---|---|
| Operation Statue Indicator | Running light | Boot initialization |
| | Green light keeps on | Microphone works normally |
| | Red light keeps on | Microphone mute |
| | Green light flashes | Speaker mute |
| | Battery display | Short press power button to enter into battery display mode, and the partial red light lit according to the remaining battery left until 2 seconds when it exist this mode |
| | Low-battery display | The first red light of the working status indicator flashes, indicating that the device is in a low battery state and needs to be charged. |
| | Volume display | Press volume button to enter battery display interface, and the green light will keep on. It will exist this mode after 2 seconds. |
| Power Statue Indicator | Red light keeps on | Low-battery, device has to be charged. |
| | Green light flashes | Under charging |
| | Green light keeps on | The battery is full charged |

# Conference Omnidirectional Speakerphone Operation

USB Connection Steps：

1. Use the USB cable provided to connect with omnidirectional microphone at the one end and with computer or any other communication device at the other end.

2.Turn on power after connecting correctly:

It takes a few seconds for the computer or other device to automatically identify and load the driver. The computer prompts that the driver is successfully installed (the driver is only required for the first use); after confirming all connections are correct, open the conferencing application on the computer and select the corresponding Microphone and speaker driver. Then you can use the device to start audio conference

Note： PC common reference settings in USB call mode

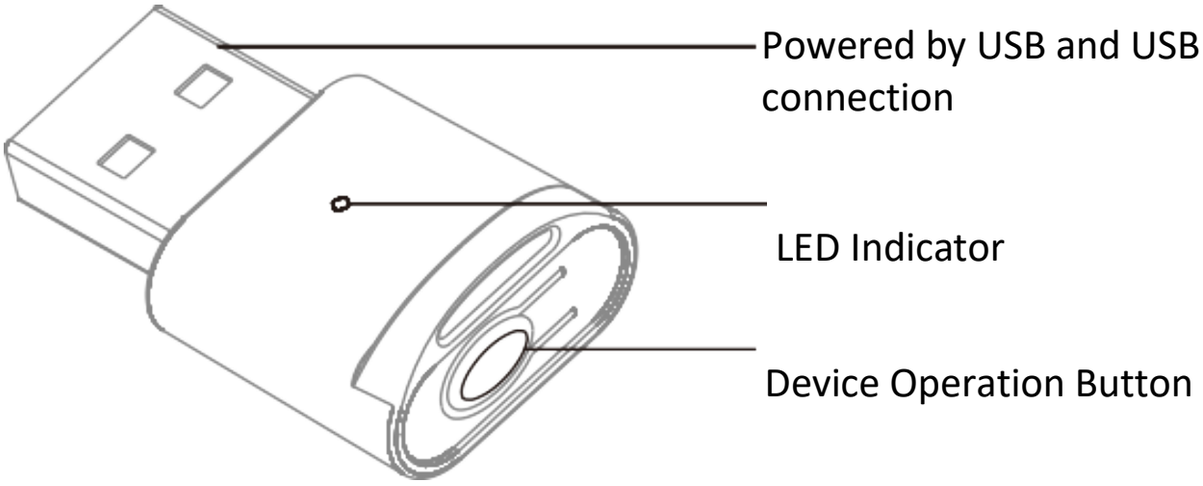
1、Please adjust the speaker and microphone volume to ensure a clear and smooth call; 2、Please do not turn on the speaker and microphone automatic gain;

3、Please consider turning off the audio processing function of the computer software first (such as turning off automatic gain, echo cancellation, noise cancellation, etc.)

4、Please use higher-quality voice coding as much as possible;

。

## Bluetooth Adapter Description




LED Statue Description:

Plug Bluetooth adaptor into device like PC, then turn on the Bluetooth of omnidirectional speakerphone, wait until the indicator turn blue, then you can use it.

Note: The Bluetooth adapter has been paired in default and can be plugged and played without re-pairing.

LED Statue Description:

| | | |
|---|---|---|
| Device LED Indicator | Light Fast Flashing | Device searching pairing statue |
| | Light Slow Flashing | Paired Successfully |

Keys Instruction:

| | | |
|---|---|---|
| Device Operation Keys | Double click | Device enter into searching pairing statue |
| | Press for 5 seconds | Clear pairing record |

Remark: Bluetooth adaptor is optional accessory

## Make Calls through Bluetooth Connecting with Phone

The main unit can be connected to various mobile phones via Bluetooth which provides excellent speaker and microphone hands-free call sound quality, and the longest connection distance can reach 12 meters.

1、Bluetooth connection between host and mobile phone;

2、In the normal working state of the host, short press " "' to turn on the Bluetooth. When the Bluetooth indicator flashes blue, indicates searching state;

3、Turn on the Bluetooth function of the mobile phone and click Search;

4、When the mobile phone's Bluetooth finds the corresponding Bluetooth driver name "Speakerphone", click make pairing connection;

5、After about 10 seconds, the host and the mobile phone establish a Bluetooth connection, the blue light of the Bluetooth status indicator lights up, and the communication starts;

Note: If the Bluetooth connection is not established within 90 seconds, please press " " again to turn on the Bluetooth of the host.

## AUX Terminal Connection Steps

AUX terminal can be used to externally connect with 3.5mm earphone cable. When earphone cable is plugin, users can turn on the earphone by pressing + or turn off the speaker of the product.

Note: When the terminal device is a PC device, please set the device to "PC mode". When the terminal device is a mobile phone, please set the machine to "mobile phone mode".

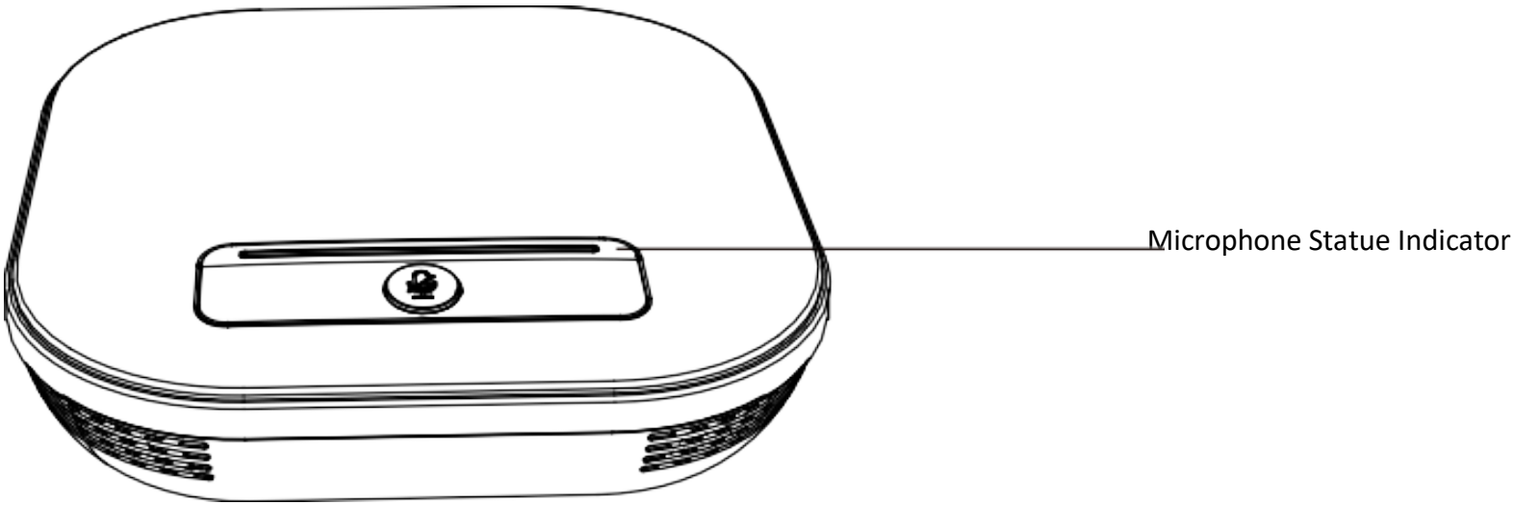
## Expansion Unit Installation and Usage

Please use expansion unit in large conference：

1、 Connect one end to the EXT port of the expansion unit and the other end to the EXT port of the omnidirectional microphone with the RJ45 network cable specially equipped for this product, and then connect it to an external computer, communication device or power supply through a USB cable, making sure that all connections are correct. After that, turn on the power.

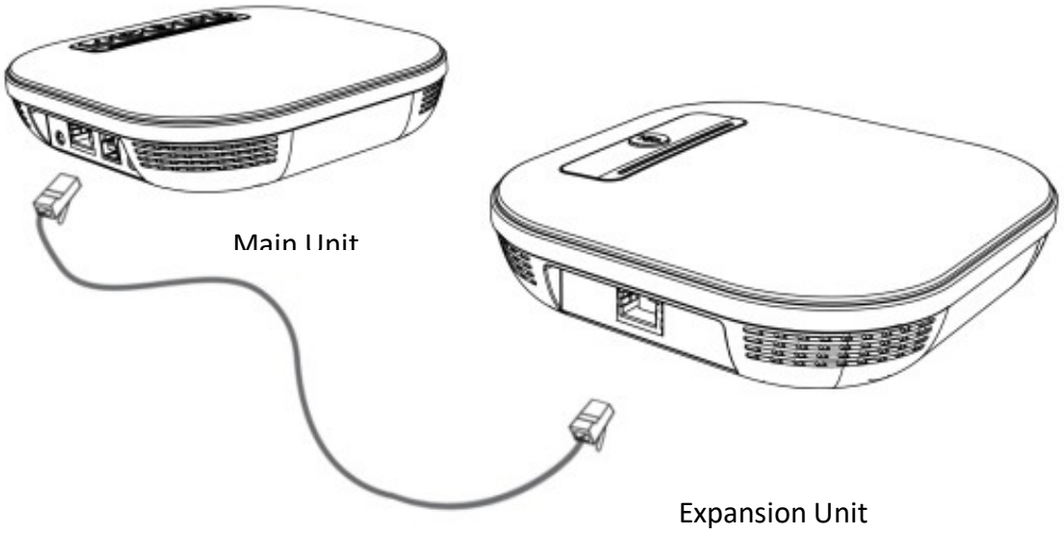
2、 The expansion unit has a speaker and microphone system, so that it can work in the same conference environment with the main device at the same time to enlarge the applicable scenarios and participates, and they can control each other mutually, which lead to the pickup and playback capabilities of the omnidirectional microphone are optimally optimized.

3、There are microphone buttons and microphone status indicators on the expansion unit. When the microphone is working normally, the microphone status indicator is green; when the microphone is muted, the microphone status indicator turns red.




Note：

In order to properly use and protect the expansion unit, it is necessary to connect the expansion unit and configure the expansion unit without power.




Connection Figure Of Main Unit with Expansion Unit

# Technical Parameter

| Parameter/Items | Conference Omnidirectional Speakerphone |
|---|---|
| Audio Parameter | Acoustic Echo Cancellation（AEC）：over 65dB echo cancellation length：≥500ms<br>Noise Compression（NC）：below 25dB<br>Automatic Direction finding Technology of Intelligent Microphone（EMI）<br>Automatic Gain Control（AGC） |
| Audio Parameter | Microphone Frequency Response：100Hz-22KHz<br>Speaker Frequency Response：100Hz-22KHz<br>Speaker Volume：Maximum 87dB<br>Microphone Pickup Range：360° |

| Parameter/Items | Expansion Unit of Conference Omnidirectional Speakerphone |
|---|---|

| | |
|---|---|
| Audio Parameter | Microphone Frequency Response：100Hz-22KHz<br>Speaker Frequency Response：100Hz-22KHz<br>Speaker Volume：Maximum 87dB<br>Microphone Pickup Range：360° |

# Warranty

**Warranty Terms:**

Repairs for defects in materials and workmanship are available free of charge to retail customers who purchase a high-definition videoconferencing system, subject to or excluded from the terms listed below.

**Warranty Period**

The warranty period is one year from the date of sale. During the warranty period, if the following conditions are found, the warranty will be voided:

The product is damaged caused by not stored or used in a reasonable manner or as recommended in the user manual.

Modify, alter or use this product with any retrofit kits, components, accessories not sold by our company

Repair of defects or malfunctions that fall under the warranty by an agent not authorized by our company

**Warranty Contents**

This warranty applies to the conference system and all standard accessories, excluding paper items such as storage cards, packaging and instructions.

User Generate Data.

This warranty does not apply to loss or damage of user-generated data (including but not limited to this product number, address) that may be stored on your product.

**Process to Get Warranty Service**

If the product purchased by the customer is subject to warranty, the customer can mail this omnidirectional microphone and the proof of purchase (such as a copy of the sales invoice) to your omnidirectional microphone dealer. Before mailing the goods, we recommend that the customer back up the data first , in case it is lost or damaged during repairs.

# Copyright Notice

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# Warning

**FCC STATEMENT :**

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.

**Warning:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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 or more 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.

**RF warning statement:**

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.