

# Video Conference Collaboration System User Manual V1.0



# Attentions

This manual introduces the functions, installation methods and operations for audio video conferencing room solution in details. Please read this manual carefully before installation and use.

## 1.How to Use

To prevent damage to this product or any product connected to it, this product can only be used within the specified range.

1.1 Keep the product in a dry environment.

1.2 To prevent the risk of electric shock, do not open the case.

Installation and maintenance should only be carried out by qualified technicians.

1.3 Do not use the product beyond the specified temperature, humidity or power supply specifications.

1.4 Wipe it with a soft , dry cloth when cleaning the camera lens. Wipe it gently with a mild detergent if needed. Do not use strong or corrosive detergents to avoid scratching the lens and affecting the image.

## 2.Electrical Safety

Installation and use of this product must strictly comply with local electrical safety standards.

## 3.Handle with care

Avoid damage to the product caused by heavy pressure, strong vibration or immersion during transportation, storage and installation.

## 4.Install with Caution

4.1 Do not rotate the camera head violently, otherwise it may cause mechanical failure;

4.2 This product should be placed on a stable desktop or other horizontal surface. Do not install the product obliquely, otherwise it may display inclined image;

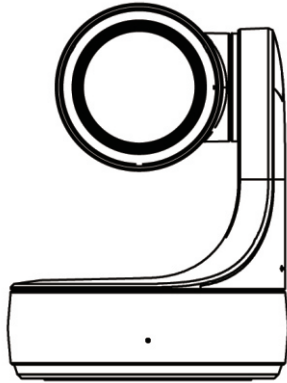
4.3 Housing of this product is made of organic materials. Do not expose it to any liquid, gas or solids which may corrode the shell.

4.4 Ensure there are no obstacles within rotation range of the holder.

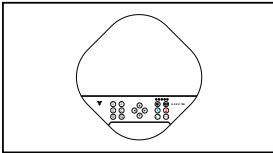
4.5 Do not power on before completing installation.

# Packing Contents

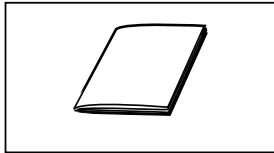
## (1)Camera



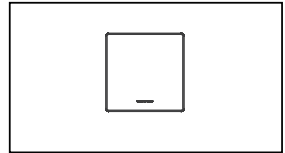
## (2)Accessories



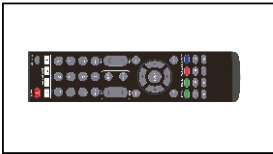
Speakerphone



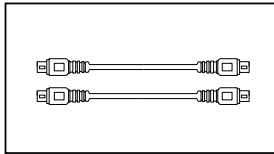
User Manual



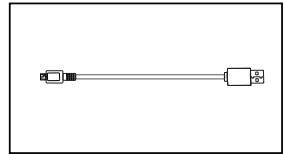
Hub



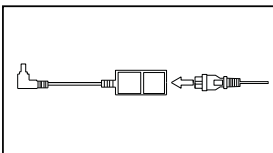
Remote Control



5m DIN6 Cable \* 2 pcs



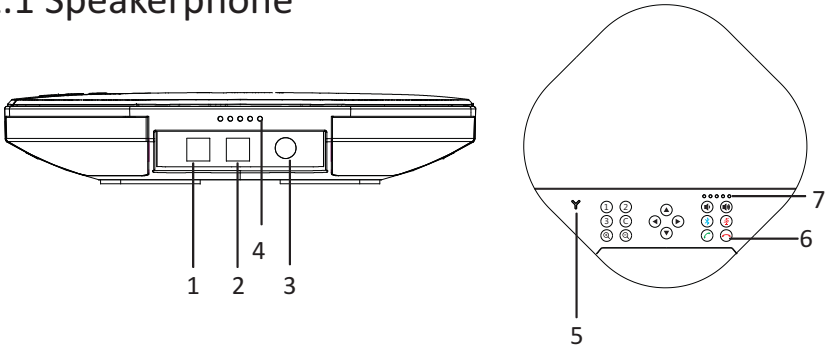
3m USB cable \* 1 pcs



Power supply

# Product Overview

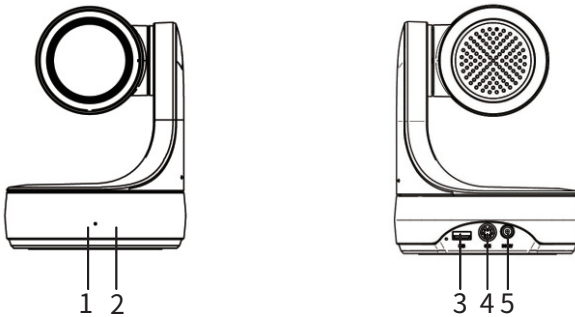
## 2.1 Speakerphone



- 1. Optional expansion microphone port 1
- 2. Optional expansion microphone port 2
- 3. DIN6 cable port
- 4. LED Status indicator

- 5. Bluetooth indicator
- 6. Function keys
- 7. Volume indicator

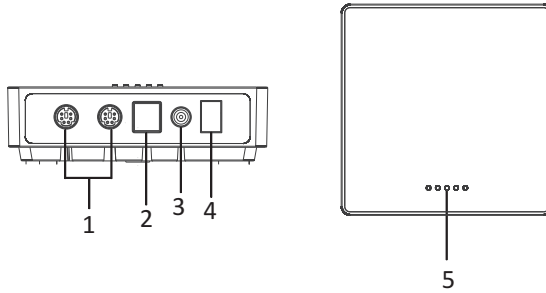
## 2.2 Camera



- 1. Status indicator
- 2. Power indicator

- 3. USB Cable port
- 4. DIN6 Cable port
- 5. DC power port

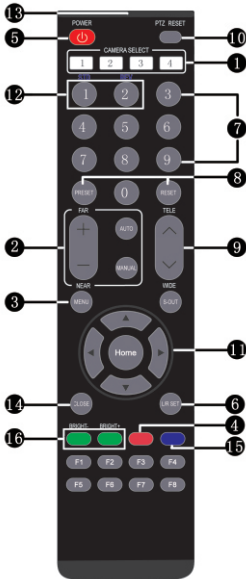
## 2.3 Hub



1. DIN6 Cable port
2. USB port
3. Power port
4. Turn on/off
5. Status indicator

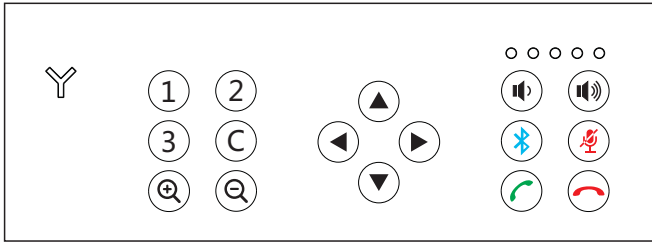
## Key operation Description

### (1)About Remote control












No.	Functions
1	IR select switch
2	Focus mode (AUTO :automatic MANUAL: manual)
3	Open the menu
4	Backlight compensation switch
5	Power standby switch
6	Pan direction reset (press together with No.12)
7	Preset number area, call presets by numbers directly
8	Preset and reset positions (press together numbers in No.7)
9	Zoom, SLOW T/W: slow zoom, FAST T/W: fast zoom
10	PTZ reset, return to the middle position
11	PTZ up and down, left and right
12	L/R direction set (press together with No.6)
13	IR Transmit
14	Close the menu
15	Switch for more datas in screen
16	Brightness adjustment

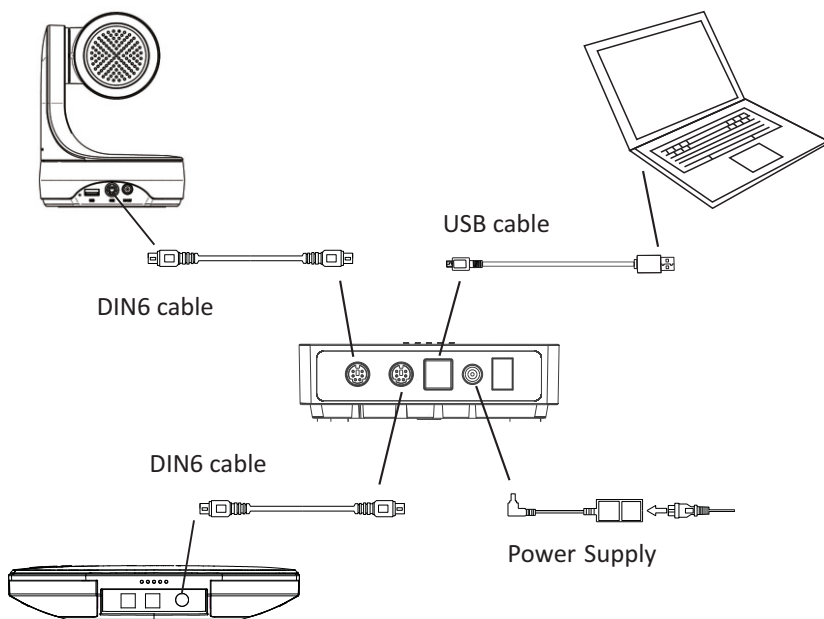
## 3.2 About Speakerphone



Key Description :

	Presets button	Those keys represent the camera preset positions 1,2 and 3 respectively
	Zoom in/out	The camera zooms in/out
	Camera pan / tilt	Control the direction of the camera: left, right, up, down.
	Volume button	Press the volume down/up button
	Bluetooth button	Turn on/off bluetooth
	End call	Press the end call
	Answer call	Press the answer call
	Mute microphone	Turn on/off microphone mute
	Echo cancellation	Press the answer call, end call and volume up button at the same time to enter/exit the echo cancellation mode. When the echo cancellation mode is entered, the status light blue flashes three times . When the echo cancellation mode is exited, the blue light flashes twice

## Connection Description



The speakerphone can be connected to computer, the hardware video equipment system through Hub USB. It's not only provides 48KHz digital voice bandwidth speakers, but also an ultra-clear video experience.

Connection steps:

1. Connect the camera and Hub with the original DIN6 data cable;
2. Connect the speakerphone and Hub with the original DIN6 data cable;
3. Connect the power supply equipment with the original power adapter;
4. Connect one end of the USB cable to the USB port of the computer and video conference system, and connect the other end to the USB socket of the Hub;
5. Turn on the power switch after the connection was confirmed correctly, and wait for the speakerphone and camera self-check completely, turn on the terminal third-party conference software, and select the corresponding camera, microphone and speaker driver to start the audio and video conference with the device.

Mode:

1. Please adjust the volume of horns and microphones comprehensively to ensure the communication is clear and smooth.
2. Don't turn on the speaker and microphone automatic gain.
3. Give priority to turn off the audio processing functions of the computer software/ video software (such as turning off automatic gain, echo cancellation, noise , reduction etc...).
4. Please use those speeches code to get a higher sound quality as more as possible.

## Bluetooth pairing

Once paired with a Bluetooth device, you can use an omnidirectional microphone for audio calls. To pair your Bluetooth device with an omnidirectional microphone, please follow these steps:

1. Press the Bluetooth pairing button and the Y type Bluetooth indicator green light flashes. At this time, the omnidirectional microphone enters the Bluetooth pairing mode.
2. Set the mobile device in the Bluetooth device search mode and select the corresponding Bluetooth name. After the Bluetooth is connected, the indicator light becomes green. At this point, you can use an omnidirectional microphone for audio calls.



## The LED status indicator description

Status indicator	Blue LED light	USB connection
	Red LED light	Microphone mute status
Volume indicator	Green light	The higher the volume is, the more number of lights is
	Red light	Speaker mute status
Bluetooth indicator	Y type Bluetooth indicator	1.Turn on the Bluetooth, the green light flashes 2. Bluetooth connection status, green light is always on

## The LED status indicator description

How to save preset positions :

Adjust the camera to the position that needs to be pressed. Press and hold the preset button for 5 seconds. The corresponding preset position is set successfully.

(Note: 2 preset positions (1-2) can be set on the remote controller).

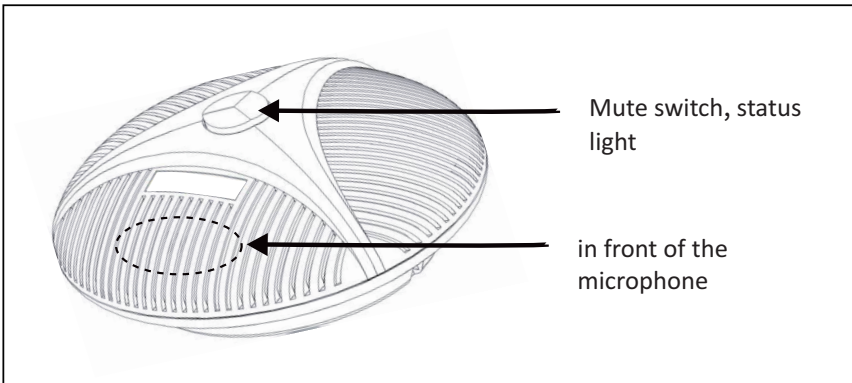
How to use preset position:

Shortly press the preset button to call the corresponding preset position (Note: the number key is invalid if it's not presetted).

## Installation and use of optional expansion microphone(Optional)

Use an expansion microphone for important and large meetings.

1. Connect one end of a 3.5-meter long 4P4C dedicated wire to the socket of the expansion microphone and the other end to the speakerphone EXT1.
2. Connect one end of a 3.5-meter long 4P4C dedicated wire to the socket of the expansion microphone and the other end to the speakerphone EXT2.
3. Due to the host uses a high single point microphone. To achieve the best effect, the speaker should be facing the microphone directly in front of the microphone. The direction of the microphone is the same as that of the nameplate.
4. The expansion microphone has mute switch and status indicator. The indicator is green when it works normally, and red when mute.



Note:

In order to properly use and protect the expansion microphone, the extended microphone must be plugged and unplugged under no electricity.

# Technical Specifications

Video Conference Camera	
Image Sensor	SONY 1/2.8" Progressive CMOS
Effective Pixels	3.1 Megapixels
Resolution HD	MJPG/H. 264:320*240, 640*480, 720*576, 1280*720, 1920*1080
	YUY2:320*240, 640*480, 720*576, 1280*720
Signal	PAL/NTSC
Lens	12x, f=3.9mm(W)~46.8mm(T)
Horizontal View Angle	72.5° (W) ~6.5° (T)
Focus System	Auto/Manual
Minimum Illumination	0.5Lux
Shutter	1/25~1/10000S
Gain	Auto/Manual
White Balance	Auto/Manual/Indoor/Outdoor/One push/ATW
Image Effect	Full color/Image flip
S/N Ratio	≥50db
Pan	355° (max. speed:80° /s)
Tilt	-30° to +90° (max. speed:60° /s)
Size	(L) 131× (W) 131× (H) 175mm

Omnidirectional Speakerphone	
Voice technical parameters	Acoustic Echo cancellation (AEC) : >65dB Echo length cancellation: $\geq 500$ ms Bidirectional noise compression (NC) : <25dB Automatic Direction finding Technology of Intelligent microphone (EMI) Automatic gain control (AGC)
Audio parameters	Microphone frequency response: 100Hz-22KHz Speaker frequency response: 100Hz-22KHz Speaker volume: 90dB at the most Microphone sound-pickup radius: 4 meters, 360 degrees full range
Bluetooth	Bluetooth devices available
Expansion Mic (optional)	2 external microphones optional for connection makes the sound-pickup radius up to 6 meters
Dimensions	180mm×180mm×42mm(L×W×H)

Hub	
Interface	DIN6 interface × 2 Power interface × 1 Power switch × 1 USB 3.0 interface × 1
Power supply	Power plug(DC12V) Adapter input AC100V-AC240V, output DC12V/2A
Data Cable	DIN6 data line × 2 Length: 5m
USB cable	USB cable × 1 Length: 3m
Compatibility	Support Windows, Android, iOS and Linux Drive-free automatic recognition of cameras, microphones and speakers Compatible with Zoom, Lynch, Vidyo, Skype for business and etc.
Dimensions	113.6mm×113.6mm×32.6mm(L×W×H)