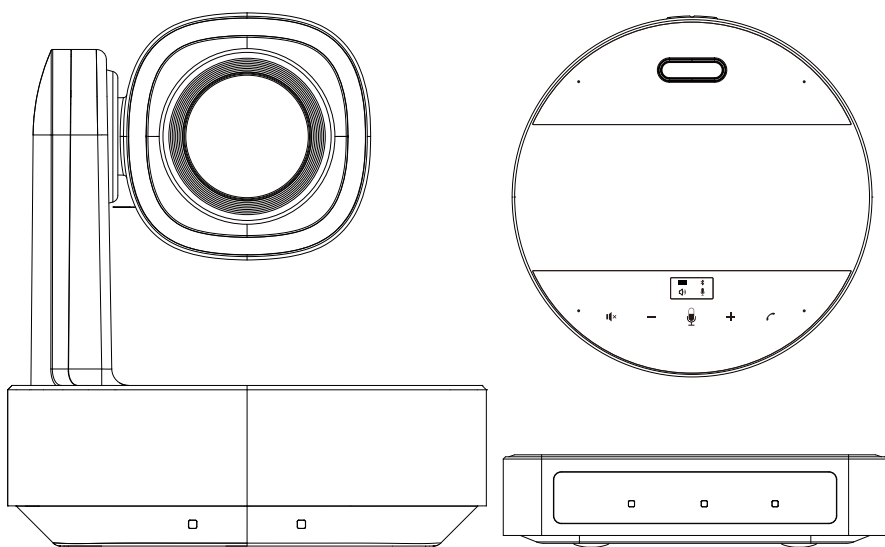


Video Conferencing Group

User Manual

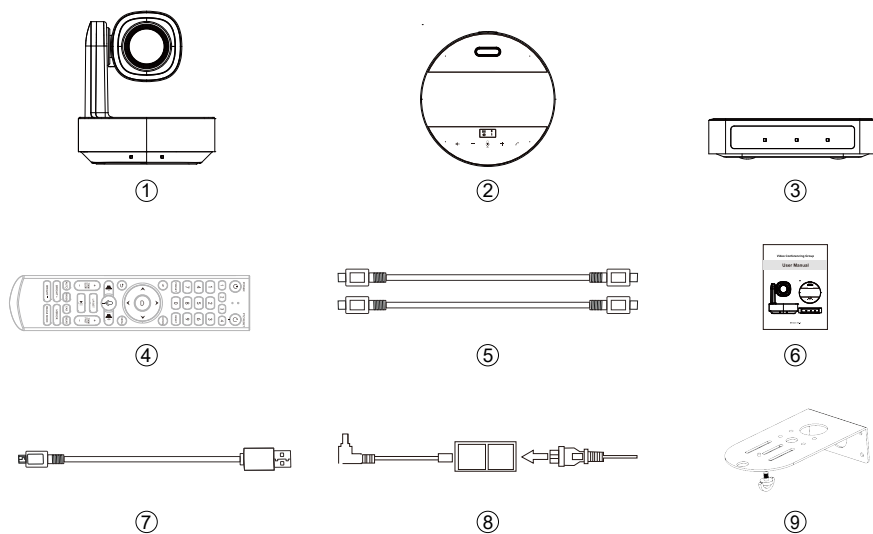


Version V1.0

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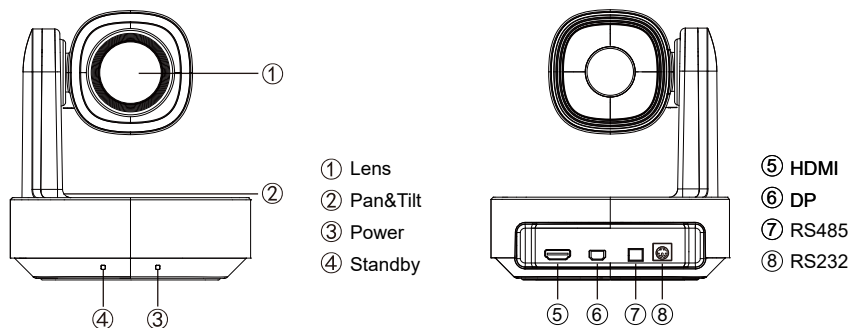
1.Packing List



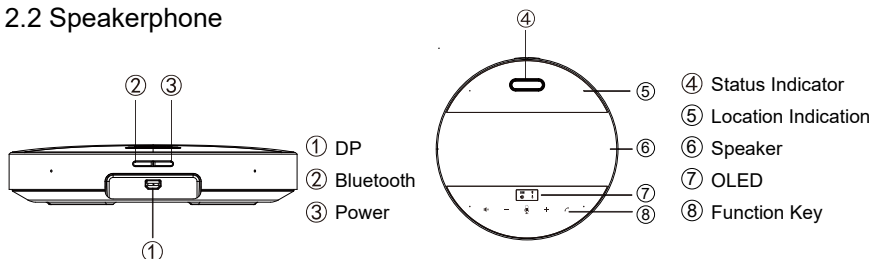
- ①HD Camera*1 ②Speakerphone*1 ③Hub*1 ④ Remote Control*1 ⑤5m DP Cable*2
 ⑥ Manual*1 ⑦3m USB Cable*1 ⑧ Power Adaptor*1 ⑨ Wall Mount*1

2.Product Overview

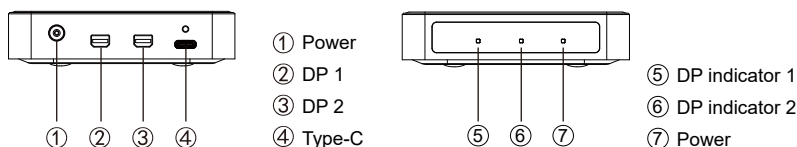
2.1 HD Camera



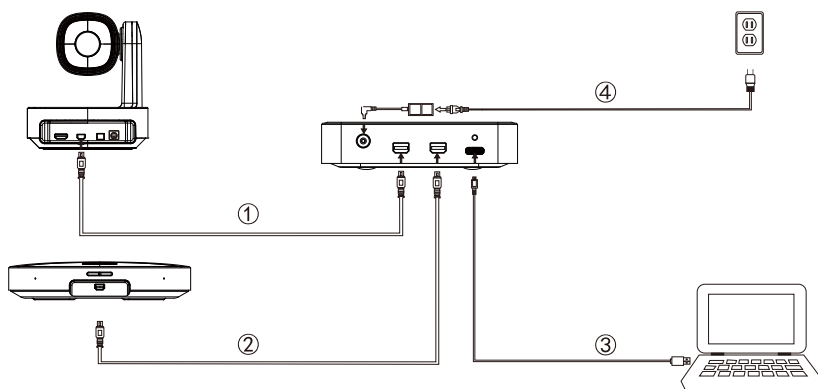
2.2 Speakerphone



2.3 Hub

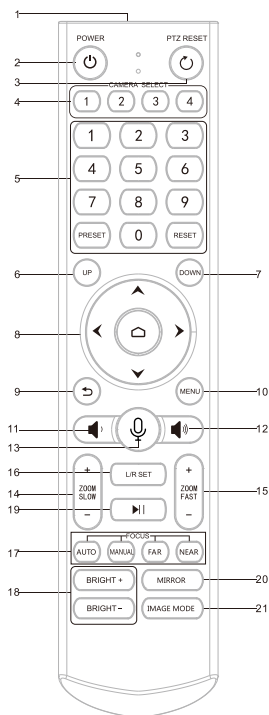


3.Connection Description



- ① Connect camera and Hub with original DP cable
- ② Connect the speakerphone and hub with original DP cable
- ③ Connect the computer to the Hub with the original USB cable
- ④ Connect with the original power adapter and power supply
- ⑤ After confirming that all connections are correct, open the conference software on the PC and select the corresponding camera, microphone and speaker to start the video conference.

4. Key Description of Remote Control



No	Name	Function
1	Launch Window	Remote Control Launch Window
2	Power	Enter into Standby mode by pressing
3	PTZ Reset	Reset the PTZ
4	Camera Select Key	Select the camera need to control
5	Position	Preset position setup keys, include 【PRESET】 and 【RESET】 Set the preset position Reset the preset position
6	UP	The camera rotates horizontally in regular installed direction
7	DOWN	The camera rotates horizontally in reversed installed direction
8	PTZ Control Key	PTZ move according to the arrow indicates. Press 【】 PTZ will back to the middle position
9	Return/Exit	Return to up level menu or exit menu
10	MENU	Enter or exit OSD Menu after pressed it
11		Volume Down
12		Volume Up
13		Microphone Mute/ Unmute
14	ZOOM Slow Key	Zoom in + or out - slowly
15	ZOOM Fast Key	Zoom in + or out -quickly
16	L/R Set	Support, press this key for 10 seconds
17	Focus Key	Auto/Manual/Far/Near Focus Default: Auto Focus
18	Bright Adjustment	Adjust the brightness of the image
19		Reserved
20	Mirror	Enable the picture left/right flip
21	Image Mode	Switch between three image modes Normal, PC, Bright

★Attentions for Remote Control

1. Please check whether the indicator corresponding to the camera selection area is on or not.
2. If the remote control doesn't work, please replace batteries.
3. Make sure the number keys on the camera selection area are consistent with the remote control address in the menu.

5.Common Operation Instructions

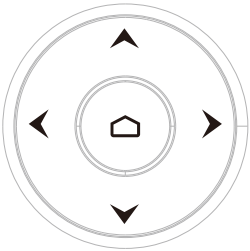
5.1 Camera Select

Refer to the dial-up at the bottom of the camera and choose camera address number that you want to control (1-4).



5.2 Camera Direction Control

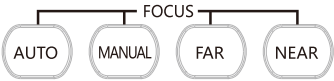
- ▲ Turning up
- ▼ Turning down
- ◀ Turning left
- ▶ Turning right
- ⬜ Turning to default



Note: Press the direction key when you need to adjust the angle. If you want to move the camera slowly, just click the direction key; If you want to move the camera fast at a large scale, just long-press the button.

5.3 Camera Focusing Mode Control

- 【AUTO FOCUS】 Switch the focus mode to AUTO
- 【MANUAL FOCUS】 Switch the focus mode to MANUAL
- 【FAR】 Far focus manually
- 【NEAR】 Near focus manually



5.4 Camera Zoom Control

Press any one of the 4 **【ZOOM】** to make the zoom functioning. These 4 keys are not applicable for fixed focus cameras.



5.5 Preset Setup, Call, Cancel

- (1) Reserve Preset: Press **【PRESET】**, then press one of the numbers (0-9) to reserve a preset that correspond to the NUMBER.

Note: You can setup 10 presets at most by the remote control.

- (2) Call Preset: Press the NUMBER (0-9) directly to call the reserved preset.

Note: It won't work if there's no preset reserved in the corresponded number.

- (3) Remove Preset: Press **【RESET】**, then press one of the number (0-9) to remove a preset that corresponds to the NUMBER.



5.6 Speakerphone Volume +/- Mute



Volume Down



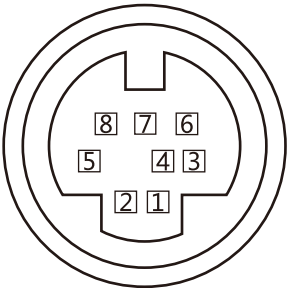
Volume Up



Microphone Mute/ Unmute

6. Description of Control Interface

6.1 RS-232 Interface Distribution

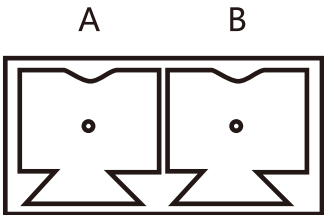


VISCA RS-232 IN

- 1.N.C.
- 2.N.C.
- 3.TXD
- 4.GND
- 5.RXD
- 6.N.C.
- 7.N.C.
- 8.N.C.

6.2 RS-485 Interface Distribution

PIN NUM	FUNCTION
A	DTR IN+ (connect to RS-485)
B	DSR IN-(connect to RS-485)



7. Menu Setup of HD Camera

When operating remote control, press 【MENU】 to enter main menu of the video camera.

7.1 Level 1 Menu- Main Menu

Main Menu	

→ Exposure	
Color	
Image	
Information	
Restore Default	
Language	English
[Home]	Enter
[Menu]	Back

Language: Support Chinese/English

Click the Home button on the Remote to enter level 2 sub-menu

Click the Menu button on the Remote to exit menu

7.2 Level 2, Menu- Exposure

Exposure	

→ Mode	Auto
Backlight	On/Off
ExpComp	0~15
Flicker	50/60Hz
[Return]	

Mode: Auto/Manual

Backlight: On/Off the backlight

ExpComp: Exposure compensation, optional item is 0 to 15

Flicker: Support 50Hz/60Hz

When changing the exposure mode to Manual, the sub-menu is the following.

Exposure	

→ Mode	Manual
Iris	F1.6
Shutter	1/100000~1/25
Gain	50
Flicker	50Hz/60Hz
[Return]	

Iris: FNo. Setting, the value should be F1.6/F2.0/F2.4/F2.8/F3.4/F4.0/F4.8/F5.6/F6.8/F8.0/F9.6

Shutter: Shutter value setting, the value is between 1/100000 and 1 / 25

Gain, exposure gain setting, optional item is 0 to 99

7.3 Level 2 Menu-Color

Color	

→ Brightness	50
Contrast	50
Hue	50
Saturation	50
Sharpness	50
WB Mode	Auto
Rtuning	50
Btuning	50
[Return]	

Brightness: Set image brightness Dynamically. Default 50, optional item 0-99

Contrast: Set image contrast Dynamically. Default 50, optional item 0-99

Hue: Set the relative brightness of the image. Default 50, optional item 0-99

Saturation: Set image color effect. Default 50, optional item 0-99

Sharpness: Set sharpness level. Default 50, optional item 0-99

WB mode: Auto/Manual/VAR

When the WB mode is Auto, the Rtuning and Btuning value can be tuning, the range is 0 to 99;

When the WB mode is Manual, the sub menu will be the following,

Color	

→ Brightness	50
Contrast	50
Hue	50
Saturation	50
Sharpness	50
WB Mode	Manual
Rtuning	50
Btuning	50
Rgain	50
Bgain	50
[Return]	

In manual WB mode, the following value can be adjusted. The Rgain and Bgain value can be tuning, the range is 0 to 99;

When the WB mode is VAR, the sub menu will be the following,

Color	

→ Brightness	50
Contrast	50
Hue	50
Saturation	50
Sharpness	50
WB Mode	VAR
Color Temp	2500K~9000K
Rtuning	50
Btuning	50
[Return]	

The range for the color temp can be adjusted between 2500K to 9000K;

7.4 Level 2 Menu Image

Image	

→ Flip	Off/On
Mirror	Off/On
Video Format	1080P60
USB Mode	ISOC/BULK
Style	Normal/PC/Bright
[Return]	

Flip: Enable/disable the picture up/down flip
Mirror: Enable/disable the picture left/right flip
Video Format: 1080P60/1080P50/1080P30/1080P25/720P/60/720P/50
USB Mode: ISOC/BULK
USB mode: Adjust between Isochronous transfers mode and Bulk transfers mode
Style Mode: Normal, PC, Bright

7.5 Level 2 Menu-Information

Information	

Model	HD Camera
Version	1.1.1.1
	2022-11-04
→ [Return]	

Model: HD Camera
Version: 1.1.1.1
Date: 2022-11-04
Notice: The version number here is just an example, the actual parameters shall prevail.

Restore Default	

Restore?	No/Yes
→ [Return]	

Communication	

→ Protocol	Pelco-D
Address	1~255
Baudrate	9600
RC address	All/1/2/3/4
[Return]	

Communication	

→ Protocol	Pelco-P
Address	1~32
Baud rate	9600
RC address	All/1/2/3/4
[Return]	

Protocol: Auto/Visca/Pelco-D/Pelco-P

Baudrate: 2400/4800/9600/38400

RC Address: All/1/2/3/4

7.6 Level 2 Menu-Information

Information	

Model	4K Camera
Version	1.1.1.0
	2022-09-13
→ [Return]	

Model: 4K Camera

Version: 1.1.1.0

Date: 2022-09-13

Notice : The version number here is just an example, the actual parameters shall prevail.

Restore Default	

Restore?	No/Yes
→ [Return]	

8. Instructions for Speakerphone

8.1 Button Function

Button	Status	Function	OLED
	Speaker mute	ON/OFF Speaker mute (only for USB device)	  Speaker Mute Unmute
	Volume down	Decrease volume	 Volume No.
	Volume up	Increase volume	 Volume No.
	Microphone mute	ON/OFF microphone mute	  Microphone Mute Unmute
	Answer/Hang up	Answer/ Hang up when calling (only for Bluetooth device)	
	Bluetooth	Turn ON/OFF Bluetooth function (only for Bluetooth device)	  BT disconnected BT connected
	ON/OFF	ON/OFF/ Mute	 Back to Home screen

8.2 LED Indicator Function

Bluetooth status indicator (only for Bluetooth device)	Blue light flashing	Bluetooth is paring
	Green light on	Bluetooth connected
Microphone status indicator	Red light on	Microphone mute
	Green light on	Microphone working normally
Speaker status indicator	Red light on	Speaker mute
	Green light on	Speaker working normally
Localization Indicator	When the microphone detects a sound input, the indicator light in the corresponding direction will be on	

8.3 Bluetooth Connection

- 1.When the device is under normally working condition, press the Bluetooth button for pairing.The OLED screen display status is .
- 2.Put the mobile device or other devices to be connected in Bluetooth device search mode, select the model of the device. The OLED will display after a successful connection.
- 3.Each time you power on the device, it will automatically connect with the last successfully connected device if available.
- 4.To disconnect Bluetooth, long press the Bluetooth button until you heard the indication ring.

9. Technical Specification

Conference Camera		
Optical Zoom	10x zoom	12x zoom
Image Sensor	1/2.8" SONY CMOS	1/2.8" SONY CMOS
Effective Pixels	2.38MP	8.29MP
Lens	f=4.34mm-35.17mm	f=3.9mm-46.8mm
Aperture	F1.85-2.63	F1.6-2.8
Video Format	1080P-60/50/30/25, 720P-60/50/30/25	4K30, 1080P-60/50/30/25, 720P-60/50/30/25
	H.264, H.265, MJPG, YUY2	H.264, H.265, MJPG, YUY2, NV12
Horizontal Angle	68.8°(W)-8.8°(T)	70.82°(W)-6.48°(T)
Focus	Auto / Manual	
Digital Noise Reduction	2D & 3D Noise Reduction	
Exposure	Auto / Manual	
Video Interfaces	HDMI, DP	
Video Compression Format	H.264, H.265, MJPG, YUY2	
Control Protocol	VISCA/Pelco-D/Pelco-P	
Baud Rate	9600/4800/38400/2400	
Pan/Tilt Rotation	±175°,-90°~+90°	
Pan Control Speed	0.1 -80°/sec	
Tilt Control Speed	0.1-60°/sec	
Preset Number	255 presets by Pelco-D,32 presets by Pelco-P, 7 presets by Visca (10 presets by remote controller)	
Speakerphone		
Acoustic echo cancellation(AEC):	> 65dB	
Speaker Power	4Ω 5W	
Speaker Volume	120dB	
Response	135Hz-20Hz	
Pickup Range	6m(Radius)	
Microphone Sensitivity	-27dBFS	
SNR(Signal to Noise Ratio)	62dB	
Interface	DP interface	
Hub		
Interface	DP*2; Power interface*1; USB Type-C*1	
Power Supply	DC 12V	
USB Cable	3m USB cable*1	
Connection Cable	5m DP cable*2	
General Parameter		
Operation Systems	Windows 7 or higher; Android, Mac OS™ 10.10 or higher, Linux (Required to support UVC.) Compatible with Zoom, MS Teams, Skype and etc.	
Input Voltage	DC 12V	
Input Current	2.0A(Max.)	
Store Temperature	-10℃ ~+60℃	
Store Humidity	20% ~90%	
Working Temperature	-10℃ ~+50℃	
Working Humidity	20% ~80%	
Dimension (W*H*D)	Camera: 171.6*192.6*171.6mm; Speakerphone: Φ 180mm*37.4mm; Hub: 98*98*20mm	

Warranty Card

Thank you so much for choosing our products.

User's Info

Name: _____ Tel: _____

Email: _____ Post Code: _____

Address: _____

Product's Info

Product Name: _____

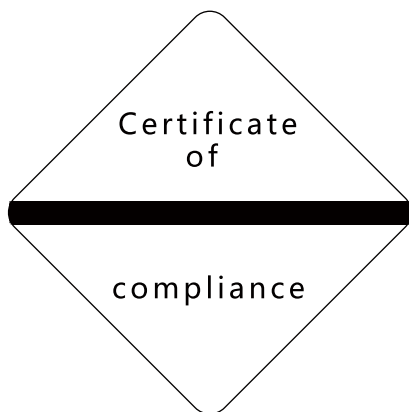
Factory Serial Number: _____

Fault Description

Attention

1. This card is considered as the protection to fix warranty, so please reserve it carefully. Please fill in truthfully.
2. Please indicate the model number, factory serial number and the detailed description of the fault information.







Make every meeting better and easier!