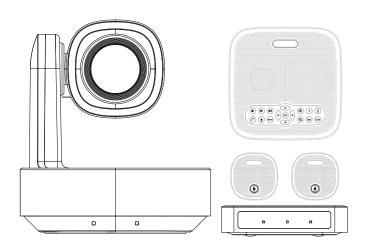
# **Video Conferencing Group**

# **User Manual**



Version V1.0

# 

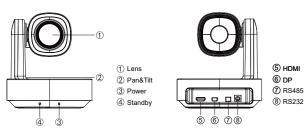


## 2.Product Overview

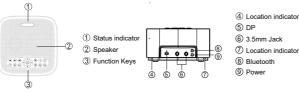
①Wall Mount Bracket\*1 ① 3.5mm Audio Cable \*2

#### 2.1 HD Camera

1.Packing List

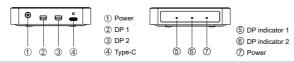


# 2.2 Speakerphone

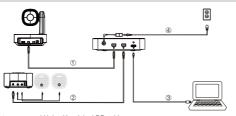




2.3 Hub



#### 3.Connection Description

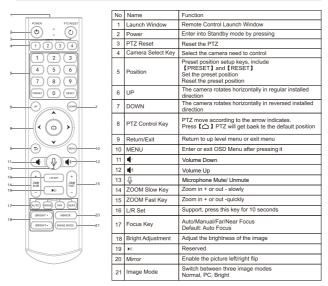


- ① Connect camera and Hub with original DP cable
- © Connect the speakerphone and hub with original DP cable (Optional, Connect the extension microphones to the main speakerphone by 3.5mm jack cable)
- Connect the computer to the Hub with the original USB cable
- (4) Connect with the original power adapter and power supply
- After confirming that all connections are correct, open the conference software on

b) 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

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# 4. Key Description of Remote Control



#### ★Attentions for Remote Control

- 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.
- 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
- ning left
  ning 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.

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#### 5.5 Preset Setup, Call, Cancel

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

(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

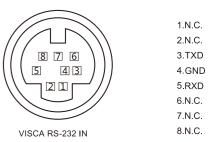
■ Volume Down

**◀**Volume Up

Microphone Mute/ Unmute

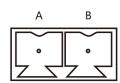
#### 6. Description of Control Interface

#### 6.1 RS-232 Interface Distribution



#### 6.2 RS-485 Interface Distribution

PIN NUM	FUNCTION
А	DTR IN+ (connect to RS-485)
В	DSR IN-(connect to RS-485)

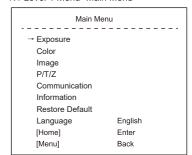


C

#### 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



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	Off	
ExpComp	-7~+7	
Flicker	50Hz	
[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 as follows:

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Exposure		
→ Mode	Manual	
Iris		
	F1.6	
Shutter	1/100000~1/25	
Gain	00	
Flicker	50Hz	
[Return]		
•		

Iris:Off/F1.6/F1.85/F2.0/F2.2/F2.63/F3.0/F3.4/F4.0/F6.0/F8.0/F10.0/F16.0/F32.0

Shutter: Between 1/10000 and 1/25

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

Flicker: Support 50Hz/60Hz

#### 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 relateive 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 as follows,

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Color		
Brightness	50	
Contrast	50	
Hue	50	
Saturation	50	
Sharpness	50	
WB Mode	Manual	
Rgain	40	
Bgain	30	
[Return]		

When the WB mode is VAR, the sub menu will be as follows:

Color		
Brightness	50	
Contrast	50	
Hue	50	
Saturation	50	
Sharpness	50	
→ WB Mode	VAR	
Color Temp	6600	
[Return]		

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

7.4 Level 2 Menu Image		
Image		
→ Flip	Off	
Mirror	Off	
Video Format	1080P60	
Menu Mirror	Off	
USB Mode	BULK	
Style	Normal	
[Return]		

Flip: Enable/disable the picture up/down flip

Mirror: Enable/disable the picture left/right flip

Video Format: 4KP30/4KP25/1080P60/1080P50/1080P30/1080P25/720P60/720P50/720P30/720P25

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 P/T/Z

P/T/Z			
→ Acc Curve L/R SET [Return]	Middle Off		

Acc Curve: Slow/Middle/Fast

L/R SET: On/Off

When On, the remote control press left, the PTZ camera moves to the left, the remote control press right, the PTZ camera moves

to the right

When Off, the remote control press left, and the PTZ camera moves to the right, the remote control press right, and the PTZ camera moves to the left

#### 7.6 Level 2 Menu Communication

Communication		
→ Protocol	Auto	
Baudrate	9600	
RC Address [Return]	All	

Communication		
→ Protocol	Visca	
Address	1-7	
Baudrate	9600	
RC Address	All	
[Return]		

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Communication			
Visca			
0-255			
9600			
All			

Communication		
→ Protocol	Visca	
Address	0-31	
Baudrate	9600	
RC Address	All	
[Return]		

Protocol:Auto/Visca/Pelco-D/ Pelco-P Baudrate :9600/38400/2400/4800 RC Address:All/1/2/3/4

#### 7.7 Level 2 Menu-Information

Communication		
→ Model	4K Camera	
PTZ Version	1.0.2.8	
SOC Version	1.1.24	
[Return]		
[ixetuiii]		

Model: 4K Camera PTZ version: 1.0.2.8 SOC Version 1.1.24

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

Restore Default		
Restore?	No	
→ [Return]		

## 8. Instructions for Speakerphone

#### 8.1 Button Function

Button	Status	Function	OLED
I <b>(</b> ×	Speaker Mute	ON/OFF Speaker mute	ON: Logo position red OFF: logo position Green
ı()	Volume-	Volume Decreasing	10-level display at the
<b>()</b>	Volume+	Volume Increasing	Logo indicator .
(	Answer/Hang up	Answer and hang up the phone call	
<b>₽</b>	Microphone mute	Mute/unmute	Mute: Red Unmute: Green
MENU	Camera Menu	Setup the camera specifications	
( <u>§</u> )	Control PTZ of the camera	Control pan/tilt of the camera.Press 【 △ 】 Button, Back to the default position	
Ф	Zoom+	Lens nearly	
Q	Zoom-	Lens far	
12 (a) (a)	Setup/recall preset position	presets are available to setup/call by speakerphone button Set: Setup presets Call: Call Presets Set preset: Move the camera to the right position, press [Set] then press 1 Call Preset: Press [Call], press button 1	
*	Bluetooth	Bluetooth connection/disconnection Press and hold the Bluetooth button for 10s to clear the pairing memory and re-pair Click Bluetooth Button to switch Bluetooth /wire transmission	Power on green
ψ	Power on/off	Power on/off Press and hold the switch for 3 seconds Click to enable or disable the microphone and speaker at the same time	Power on green

#### 8.2 Expansion Microphone Button Function

Button	Status	Function	OLED
<u> </u>	Mute Button		Unmute: Green Muted: Red

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#### 8.3 LED Indicator Function

	Bluetooth status indicator	Blue light flashing	Bluetooth is pairing
	(only for Bluetooth device)	Green light on	Bluetooth connected
	Microphone status indicator	Red light on	Microphone mute
		Green light on	Microphone working normally

Note: When adjusting the volume, the blue light of the volume status indicator will change with the volume. When the volume increase key is pressed, the blue light progress bar of the volume status indicator will increase; When the volume down key is pressed, the blue progress bar of the volume status indicator is reduced. When the volume is adjusted to off, the indicator is red. After adjusting the volume, the green light will return at intervals of 2s.

	Conference Camera	
Optical Zoom	12x zoom	
Image Sensor	1/2.8" SONY CMOS	
Effective Pixels	8.29MP	
Lens	f=3.9mm-46.8mm	
Aperture	F1.6-2.8	
	4K30,1080P-60/50/30/25, 720P-60/50/30/25	
Video Format	H.264, H.265, MJPG, YUY2, NV12	
Horizontal Angle	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	5W	
Speaker Volume	110dB	
Response	100Hz-20KHz	
Pickup Range	6m(Radius)	
Microphone Sensitivity	-38dBFS	
SNR(Signal to Noise Ratio)	62dB	
Interface	DP interface:2x3.5mm Jack (for Expansion Mics)	
	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°C∼+50°C	
Working Humidity	20%~80%	
Dimension (W*H*D)	Camera: 171.6*192.6*171.6mm; Speakerphone:143mm*143mm*75mm; Extension microphon:73.7*74*20mm; Hub: 98*98*20mm	
	Extension microphon.73.7 74 20mm, Hub. 90 90 20mm	

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