

- **VC-4K Pro (120°)** 4K Ultra HD Ai Smart Auto Framing EPTZ
- **VC-4K Pro (84°)** 4K Ultra HD Auto Focus Lens, Auto Framing, Auto Tracking, EPTZ

## User Manual

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Warning

This is class A production. Electromagnetic radiation at specific frequencies may affect the image quality of TV in home environment.

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## 1 Note

### ● Electric Safety

Installation and operation must accord with electric safety standard.

### ● Use Caution to Transport

Avoid stress, vibration or soaking in transport, storage and installation.

### ● Careful Installation

The product should be placed on smooth desktop. The shell of product is an organic material and is strictly prohibited from contact with any liquid, gas or solid material that may cause corrosion to the shell.

### ● Do not Unauthorized Disassemble

This product has no parts which can be repaired by the user. The damage caused by the user's own disassembly is not covered by warranty.



Warning

Specific frequencies of electromagnetic field may affect the image of the camera!

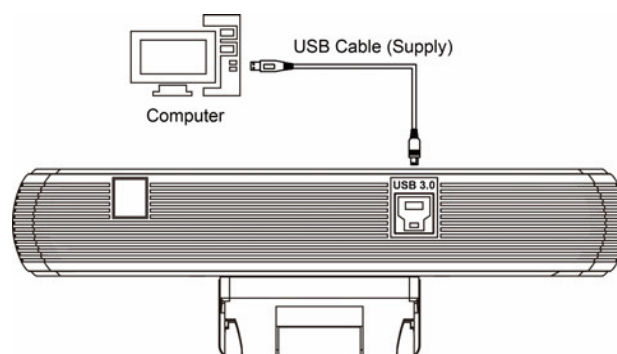
## 2 Supplied Accessories

When you unpack, check that all the supplied accessories are included:

Name	Quantity
Camera	1
USB Cable	1
Remote Control	1
User Manual	1

## 3 Quick Start

Please check the connections are correct before starting.



## 4 About Product

### 4.1 Features

#### ● 4K Ultra High Definition

Support 4K ultra high definition, ultra high definition with ultra high resolution, the maximum can provide 4K@30fps/25fps image output, while down compatible with 1080P, 720P and other resolutions.

#### ● USB 3.0

Full functional USB, 3.0 connection, power supply, video, and audio all in one and support 2 streaming USB video signal and one audio source.

#### ● Ai Feature

**VC-4K Pro (84°)** Auto framing, Auto tracking, Auto focus.

**VC-4K Pro (120°)** Ai smart Auto framing.

### ● Lens

#### - Wide View Angle (84°)

Auto focus non-distortion lens, wide view angle **84°** supporting EPTZ.

#### - Ultra-Wide-Angle Lens (120°)

Non-distortion lens, Ultra-wide view angle up to **120°**, small lens with big view, supporting EPTZ.

### ● Built-in Microphone

Built in microphone array, omni directional pickup, pickup distance up to 12 meters, noise suppressing algorithm with excellent sound.

### ● Easy Installation

Standard damping rotary shaft support, suitable for market 100% monitor, easy installation, stable and reliable.

## 4.2 Product Specification

Name	4K Ultra HD Camera
Camera	
Sensor	1/2.5", CMOS, Effective Pixel: 8.29M
Scanning Mode	Progressive
Lens Mount	M12
Wide View Angle Lens VC-4K Pro (84°)	Lens Focus: f=3.5mm, Wide Angle: 84°
Ultra-Wide-Angle Lens VC-4K Pro (120°)	Lens Focus: f=2.8mm, Wide Angle: 120°
Minimal Illumination	0.5 Lux @ (F1.8, AGC ON)

Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR
Digital Noise Reduction	2D, 3D digital noise reduction
Backlight Compensation	Support

### USB Features

Operate System	Windows 7/8/10, Linux, Mac OS
Color / Compression	YUY2/MJPEG/H.264
USB Protocol	UVC 1.0 ~ UVC 1.5
UVC PTZ	Support (EPTZ)

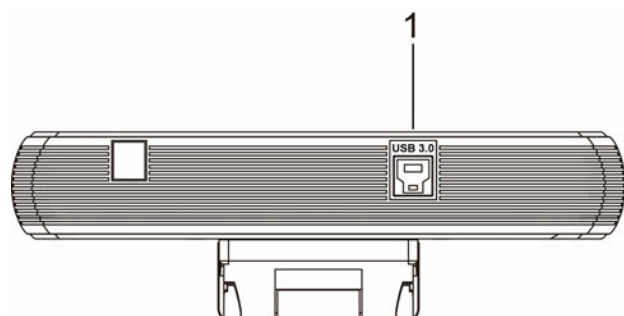
### Input/Output Interface

USB Interface	1 x USB 3.0: Type B, female
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### Physical Parameter

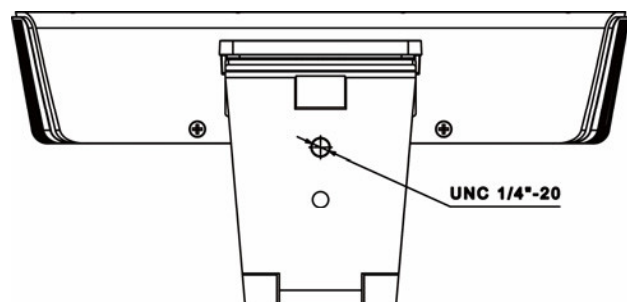
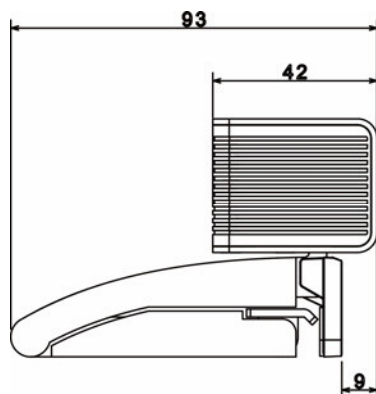
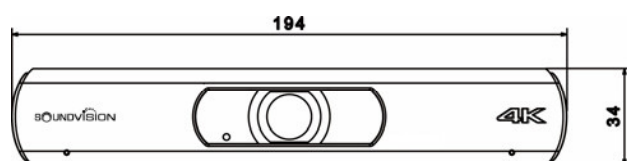
Input Voltage	5V (USB Power Supply)
Current Consumption	0.6A
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F)
Storage Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Power Consumption	3W
Size	194 x 34 x 42mm (without bracket)
Net Weight	0.5Kg

## 4.3 Interface and Button

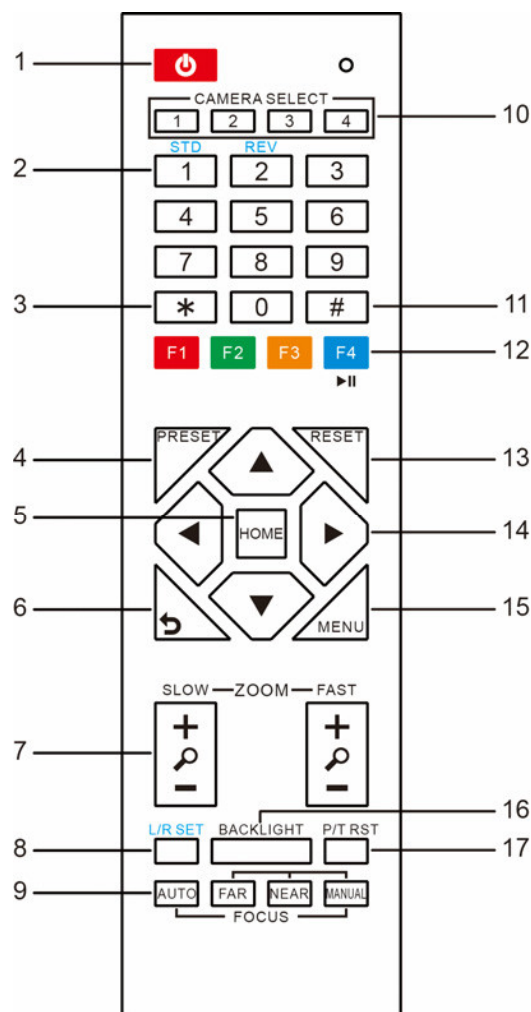


Item	Name
1	USB 3.0 Interface

## 4.4 Dimension



## 4.5 Remote Control



### Key Description

#### 1. Standby Key

Press this button to enter standby mode.

Press it again to enter normal mode.

Note: Power consumption in standby mode is approximately half of the normal mode.

#### 2. Number Key

To set preset or call preset.

#### 3. \*Key

Used with other buttons.

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**4. Preset Key**

---

Set preset: Store a preset position.

[SET PRESET] + Numeric button (0-9):  
Setting a corresponding numeric key preset position.

---

**5. HOME Key**

---

Confirm menu, enter submenu or lens will back to the middle position after pressed it.

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**6. Return Key**

---

Return back the last level menu.

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**7. Zoom Key**

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- Slow Zoom: Zoom In [+] or Zoom Out [-] slowly
  - Fast Zoom: Zoom In [+] or Zoom Out [-] fast
- 

**8. Left/Right Setting Key**

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Press with 1 button and 2 button setting the direction of the Pan-Tilt.

- Simultaneously press L/R Set +1 [STD]: set the Pan-Tilt turn the same direction as the L/R Set.
  - Simultaneously press L/R Set +2 [REV]: set the Pan-Tilt turn the opposite direction as the L/R Set.
- 

**9. Focus Key**

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Used for focus adjustment.

Press [AUTO] adjust the focuses on the center of the object automatically.

Press [MANUAL] adjust the focus on the center of the object manual.

MANUAL button, and adjust it with [Far] (Focus on far object) and [NEAR] (Focus on near object).

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**10. Selection Key**

---

Press the button corresponding to camera you want to operate with the remote control.

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**11. # Key**

---

Used with other buttons.

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**12. IR Remote Control Key**

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[\*]+[#]+[F1]: Address 1

[\*]+[#]+[F2]: Address 2

[\*]+[#]+[F3]: Address 3

[\*]+[#]+[F4]: Address 4

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**13. Reset Key**

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Clear preset: Erase a preset position.

[CLEAR PRESET] + Numeric button (0-9)

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**14. Direction Control Key**

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After zoom, the lens moves in the direction indicated by the arrow. Press [HOME] button to face the camera back to front.

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**15. Menu Key**

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MENU: enter or exit OSD MENU.

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**16. BLC (Backlight Compensation) Key**

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BLC ON/OFF: Press this button to enable the backlight compensation. Press it again to disable the backlight compensation.

NOTE:

- Effective only in auto exposure mode.
  - If a light behind the subject, the subject will become dark. In this case, press the backlight ON/OFF button. To cancel this function, press backlight ON/OFF button.
- 

**17. PTZ Reset Key**

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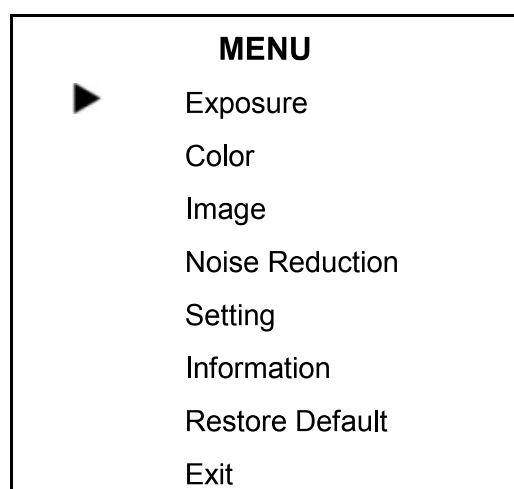
It only applicable to the PTZ cameras.

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## 5 Menu Settings

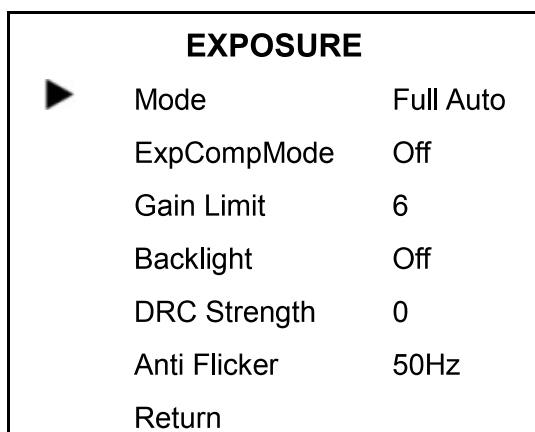
### 5.1 MENU

Press [MENU] button to display the main menu on the normal screen, using arrow button to move the cursor to the item to be set. Press the [HOME] button to enter the corresponding sub-menu.



### 5.2 EXPOSURE

Move the main menu cursor to [EXPOSURE], and press [HOME] key enter the exposure page, as shown in the following figure.



Mode: Optional items: Full Auto, Shutter Priority, Bright.

Shutter: Optional items: 1/30s, 1/60s, 1/90s, 1/100s, 1/125s, 1/200s, 1/250s, 1/350s, 1/500s, 1/725s, 1/1000s, 1/1500s, 1/2000s, 1/3000s, 1/4000s, 1/6000s, 1/10000s (Effective only in Shutter Priority mode).

ExpCompMode: Optional items: On, Off (Effective only in Full Auto mode).

ExpComp: Exposure compensation value, optional items: -7 ~ 7 (Effective only in ExpCompMode item to On).

Gain Limit: Maximum gain limit, optional items: 0 ~ 15 (Effective only in Full Auto, Bright mode).

Backlight: Optional items: On, Off (Effective only in Full Auto, Bright mode).

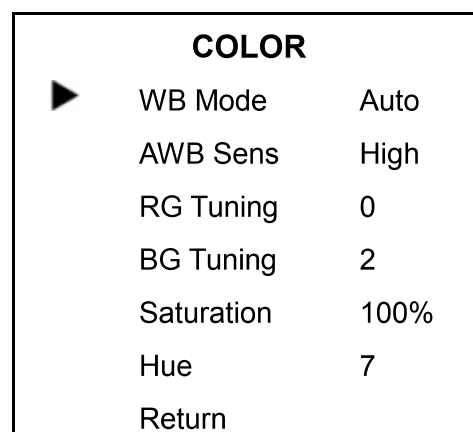
Bright: Optional items: 0 ~ 17 (Effective only in Bright mode).

DRC Strength: Optional items: 0 ~ 8.

Anti Flicker: Optional items: Off, 50Hz, 60Hz (Effective only in Full Auto, Bright mode).

### 5.3 COLOR

Move the main menu cursor to [COLOR], and press [HOME] key enter the color page, as shown in the following figure.



WB-Mode: White balance mode, optional items: Auto, Indoor, Outdoor, One Push, Manual, VAR.

AWB Sens: The white balance sensitivity, optional items: Low, Middle, High.

R Gain: Red gain, optional items: 0 ~ 255 (Effective only in Manual mode).

B Gain: Blue gain, optional items: 0 ~ 255 (Effective only in Manual mode).

colortemp: Optional items: 2500K ~ 8000K (Effective only in VAR mode).

RG Tuning: Red gain fine-tuning, optional items: -10 ~ +10 (Effective only in Auto, One Push, VAR mode).

BG Tuning: Blue gain fine-tuning, optional items: -10 ~ +10 (Effective only in Auto, One Push, VAR mode).

Saturation: Optional items: 60% ~ 200%.

Hue: Optional items: 0 ~ 14.

## 5.4 IMAGE

Move the main menu cursor to [IMAGE], and press [HOME] key enter the image page, as shown in the following figure.

IMAGE		
▶	Luminance	7
	Contrast	8
	Sharpness	3
	Flip-H	Off
	Flip-V	Off
	Gamma	EXT
	Style	Default
	LDC	10
	Return	

Luminance: Brightness adjustment, optional items: 0 ~ 14.

Contrast: Contrast adjustment, optional items: 0 ~ 14.

Sharpness: Sharpness adjustment, optional items: Auto, 0 ~ 14.

Flip-H: Image flipped horizontally, optional items: On, Off.

Flip-V: Image Flip Vertical, optional items: On, Off.

Gamma: Optional items: EXT, Default, 0.45, 0.5, 0.56, 0.63.

Style: Optional items: Default, Norm, Clarity, Bright, PC, Clarity (LED), Face.

LDC: Optional items: Off, -10 ~ 10.

## 5.5 NOISE REDUCTION

Move the main menu cursor to [NOISE REDUCTION], and press [HOME] key enter the noise reduction page, as shown in the following figure.

NOISE REDUCTION		
▶	2D NR	Close
	3D NR	2
	Return	

2D NR: 2D noise reduction, optional items: Close, Auto, 1 ~ 5.

3D NR: 3D noise reduction, optional items: Close, 1 ~ 8.

## 5.6 SETTING

Move the main menu cursor to [SETTING], and press [HOME] key enter the setting page, as shown in the following figure.



SETTING		
▶	Language	English
	EPTZ	On
	Zoom Limit	3x
	Uvc EXT setting	
	Return	

Language: Optional items: English, Chinese, French.

EPTZ: Optional items: On, Off.

Zoom Limit: Optional items: 1.5x, 2x, 3x, 4x, 8x (Effective only in EPTZ item to On).

Uvc EXT setting: Optional items: Enable or disable the H264, Bulk and Audio.

## 5.7 INFORMATION

Move the main menu cursor to [INFORMATION], and press [HOME] key enter the information page, as shown in the following figure.

INFORMATION		
	Version	8.4.062
	Model	O11.V
	Date	2020-03-02
▶	Return	

## 5.8 RESTORE DEFAULT

Move the main menu cursor to [RESTORE DEFAULT], and press [HOME] key enter the restore default page, as shown in the following figure.

RESTORE DEFAULT		
▶	Yes	
	No	
	Return	

Yes: Confirm restore factory settings.

No: Cancel restore factory settings.

Note: Press [HOME] button to confirm, all parameter restore default, include IR Remote Address.

# 6 Maintenance and Troubleshooting

## Camera Maintains

- Use soft cloth to clean camera cover.
- Please use the soft dry cloth to clean the lens. If the camera is very dirty, clean it with diluted neuter detergent. Do not use any type of solvents, which may damages the surface.

## Unqualified Application

- No shooting extreme bright object for a long time, such as sunlight, etc.
- No operating in unstable lighting conditions, otherwise image will be flickering.
- No operating close to powerful electromagnetic radiation, such as TV or radio transmitters, etc.

## Troubleshooting

### Image

- Image have jitter when the camera lens at max multiple
- 1) Check whether the camera installed position be stabled.
- 2) Check whether have vibrating machinery or object near the camera.

### Control

Remote control cannot control the camera

- 1) Check and replace the new battery for the remote control.
- 2) Check whether the camera working mode is correct.
- 3) Check whether the address of remote control can match the camera.

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