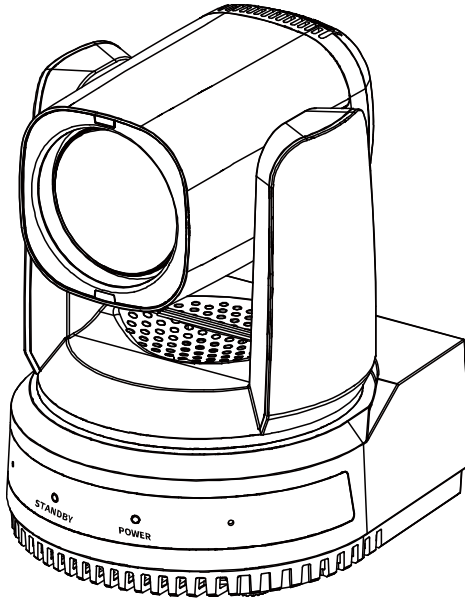


# **4K PTZ Camera**



## **User Manual**

### **English (V1.0)**



## Copyright

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## Notice

Product specifications and information which were referred to in this document are for reference only. We may change, delete, or update any content at any time and without prior notice.

## FCC NOTICE (Class A)



This product complies with Part 15 of the FCC Rules. The 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.



Note

This product has been tested and found to comply with the limits for a Class A 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/television technician for help.

## Class A ITE

Class A ITE is a category of all other ITE which satisfies the class A ITE limits but not the class B ITE limits. Such equipment should not be restricted in its sale but the following warning shall be included in the instructions for use:



Warning

Operating this equipment in a residential environment may cause radio interference.

## European Community Compliance Statement (Class A)



This product is herewith confirmed to comply with the requirements set out in the Council Directives on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility Directive 2014/30/EU.

# Catalogue

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## 1 Note

- During the installation and use of the equipment, all electrical safety regulations of the country and region of use must be strictly observed.
- Please use the power adapter that comes standard with this product.
- Please do not connect multiple devices to the same power adapter (exceeding the capacity of the adapter may generate excessive heat or cause a fire).
- Do not rotate head of the camera by hand, otherwise it may cause mechanical failure.
- When installing this product on a wall or ceiling, secure the device securely. When installing, make sure that there are no obstacles within the rotation range of the gimbal; do not turn on the power until all installations are completed.
- To avoid heat build-up, keep ventilation around the device smooth.

- If the device emits smoke, smells, or makes noises, please turn off the power immediately and unplug the power cord, and contact the dealer in time.
- This device is not waterproof, please keep the device dry.
- This product has no user serviceable parts, damage caused by disassembly by the user is not covered by the warranty.



## Notice

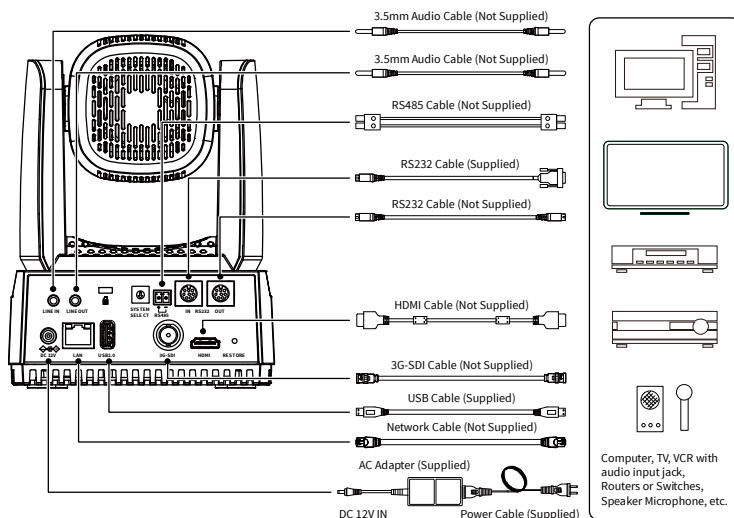
Specific frequencies of electromagnetic field may affect the image of the camera!

## 2 Packing List

Name	Quantity
Camera	1
Power Adapter	1
Power Cable	1
RS232 Cable	1
USB Cable	1
Remote Control	1
User Manual	1

### 3 Quick Start

- 1) Please check connections are correct before starting.



- 2) Connect the power adapter to the power connector on the rear panel of the camera. The power indicator on the front panel of the camera is on.
- 3) After the camera is powered on, it starts to initialize, right up to the limit position, and then both horizontal and vertical go to the middle position, the motor stops running, and the initialization is completed.  
(Note: If preset 0 is saved, PTZ will be move to preset 0)

## 4 Video Format

HDMI		SDI	
0	1080P60	0	1080P60
1	1080P50	1	1080P50
2	1080i60	2	1080i60
3	1080i50	3	1080i50
4	1080P30	4	1080P30
5	720P60	5	720P60
6	1080P29.97	6	1080P29.97
7	1080i59.94	7	1080i59.94
8	1080P59.94	8	1080P59.94
9	720P59.94	9	720P59.94
A	4KP29.97	A	1080P29.97
B	4KP59.94	B	1080P59.94
C	4KP25	C	1080P25
D	4KP30	D	1080P30
E	4KP50	E	1080P50
F	4KP60	F	1080P60

## 5 About Product

### 5.1 Features

#### ● AI Tracking

With the help of the AI computing power of the chip, the camera is equipped with advanced AI algorithms to realize monocular humanoid tracking, which can realize automatic tracking of scenes such as education, conferences and live broadcasts.

#### ● NDI®|HX2 (Optional)

NDI®|HX2 has the characteristics of low delay and plug and play, which is convenient for project implementation and deployment. It has good ecology and supports the simultaneous transmission of audio, video and control commands. It is a new generation of network video transmission mode.

#### ● 4K UHD

Use 1/2.5-inch high-quality UHD CMOS sensor with a maximum of 8.51 million pixels can realize 4K (3840x2160) ultra-high-resolution high-quality images. And downward compatible with 1080p, 720p and other resolutions.

#### ● 12x Optical Zoom

It adopts 4K ultra long focal lens with high quality and 8 million ultra-high resolution, 12x optical zoom, and the maximum field angle is 71°.

#### ● HDMI 2.0

Support HDMI 2.0 interface, which can directly output 4KP60 uncompressed digital video.

#### ● Low Light

The application of 3D noise reduction algorithm greatly reduces image noise. Even under the condition of ultra-low illumination, it still keep the picture clean and clear, and the SNR of image is as high as 55dB.

#### ● Multiple Interfaces

Support HDMI and 3G-SDI interface, effective transmission distance of 3G-SDI is up to 150 meters (1080P30). HDMI or 3G-SDI, USB, LAN can output three HD digital signals at the same time.

#### ● Remote Control

Through the RS232 and RS485 serial ports, the camera can be controlled remotely.

#### ● Gravity Sensor (Optional)

It supports automatic image flipping function, which is convenient for engineering installation and use.

## 5.2 Specifications

Name	4K PTZ Camera
Camera	
Signal System	<b>HDMI:</b> 4KP60, 4KP50, 4KP30, 4KP25, 4KP59.94, 4KP29.97, 1080P60, 1080P50, 1080P59.94, 1080P30, 1080P29.97, 1080I60, 1080I50, 1080I59.94, 720P60, 720P59.94 <b>3G-SDI:</b> 1080P60, 1080P50, 1080P30, 1080P29.97, 1080P59.94, 1080P25, 1080I60, 1080I50, 1080I59.94, 720P60, 720P59.94
Sensor	1/2.5 inch, CMOS, Effective pixels: 8.51M
Scanning Mode	Progressive
Lens	12x, f = 4.4mm ~ 52.8mm, F1.8 ~ F2.6
Digital Zoom	16x
Minimum Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR
Backlight Compensation	Support
Digital Noise Reduction	3D Digital Noise Reduction
SNR	≥55dB
Horizontal FOV	71° ~ 8.2°
Vertical FOV	42.7° ~ 4.5°
Pan Angle	±170°
Tilt Angle	-30° ~ +90°
Pan Speed	1.7° ~ 100°/s
Tilt Speed	1.7° ~ 69.9°/s
Image Flip	Support
Image Freeze	Support

PoE+	Support
Preset Position	255
Preset Accuracy	0.1°
USB Features	
Operate System	Windows 7/8/10, Mac OS X, Linux, Android
Color System / Compression	YUY2/H.264/MJPEG/H.265
Video Format	<ul style="list-style-type: none"> <li>YUY2: max to 1080P@5fps</li> <li>H.264 AVC: max to 2160P@30fps</li> <li>H.265 HEVC: max to 2160P@30fps</li> <li>MJPEG: max to 2160P@30fps</li> </ul>
USB Audio	Support
USB Video Protocol	UVC 1.1 ~ 1.5
UVC PTZ	Support
Network Features	
Video Compression	H.264/H.265/MJPEG
Video Stream	First Stream, Second Stream
First Stream Resolution	3840x2160, 1920x1080, 1280x720, 1024x576, 720x480, 720x408, 640x480, 640x360
Second Stream Resolution	720x480, 720x408, 640x480, 640x360, 480x320, 320x240
Video Bit Rate	<ul style="list-style-type: none"> <li>First Stream: 32kbps~51200kbps</li> <li>Second Stream: 32kbps~20480kbps</li> </ul>
Bit Rate Control	CBR, VBR
Frame Rate	50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps
Audio Compression	AAC
Audio Bit Rate	96Kbps, 128Kbps
Protocols	NDI® HX2, TCP/IP, HTTP, RTSP, RTMP/RTMPS, ONVIF, DHCP, SRT, Multicast

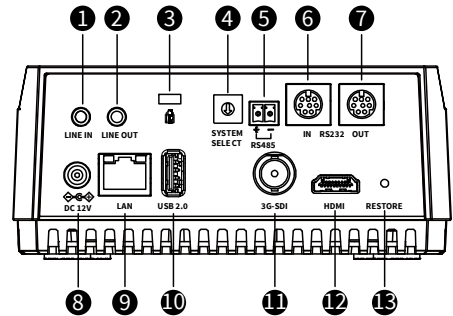
Input/Output Interfaces	
LINE IN Interface	1 x LINE IN: 3.5mm Audio Interface
LINE OUT Interface	1 x LINE OUT: 3.5mm Audio Interface
Communication Interface	1 x RS485: 2pin phoenix port, Max Distance: 1200m, Protocol: VISCA/Pelco-D/Pelco-P
	1 x RS232 IN: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA/Pelco-D/Pelco-P
	1 x RS232 OUT: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA network use only
Network Interface	1 x LAN: 10M/100M/1000M Adaptive Ethernet Port
USB Interface	1 x USB2.0: Type A
3G-SDI Interface	1 x 3G-SDI: BNC type, 800mVp-p, 75Ω. Along to SMPTE 424M standard
HDMI Interface	1 x HDMI: Version 2.0
Power Jack	JEITA type (DC IN 12V)
General Specifications	
Tally Indicator	1
Power Indicator	1
Status Indicator	1
Restore Key	1
Input Voltage	DC 12V/PoE+(802.3at)
Input Current	Max. 2A
Operating Temperature	0°C ~ 40°C
Storage Temperature	-40°C ~ 60°C

Power Consumption	Max. 18W
Dimension	169mm x 142mm x 188mm
Net Weight	About 1.6Kg



Product specifications and parameters are subject to change without notice.

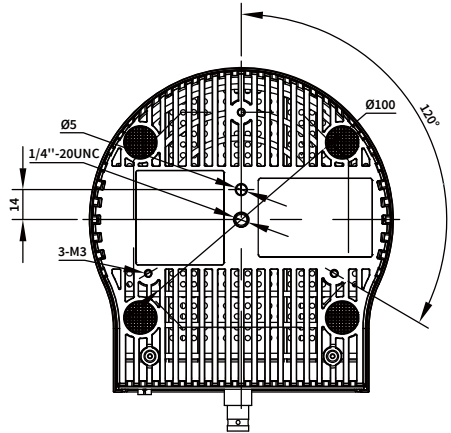
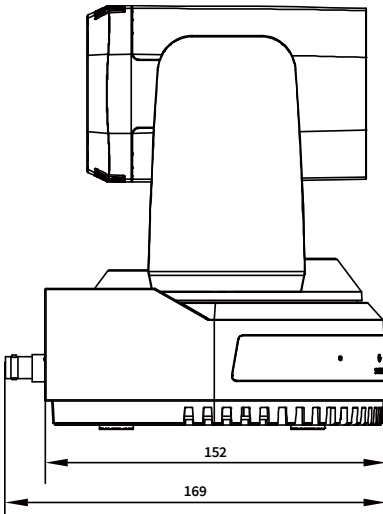
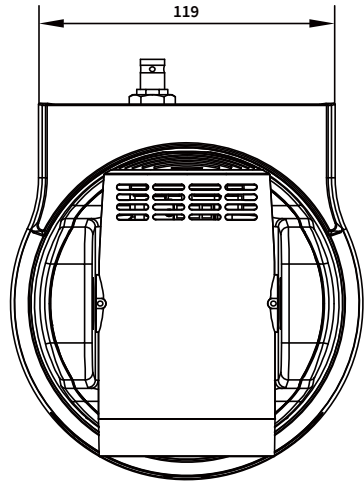
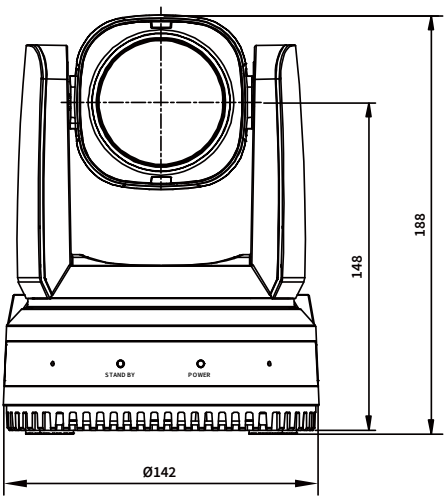
### 5.3 Interface and Switch



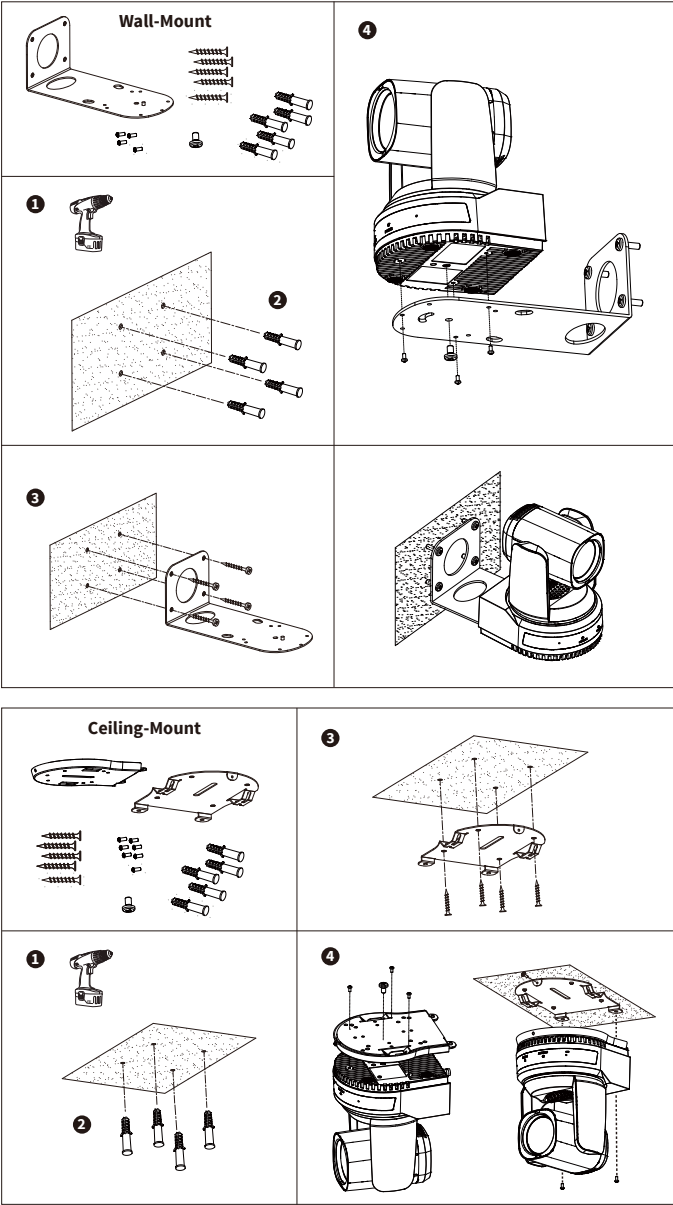
Item	Name
1	LINE IN Interface
2	LINE OUT Interface
3	Security Slot
4	System Select Switch
5	RS485 Interface
6	RS232 IN Interface
7	RS232 OUT Interface
8	DC 12V Interface
9	LAN Interface
10	USB2.0 Interface
11	3G-SDI Interface
12	HDMI Interface
13	RESTORE Key



5.4 Dimension



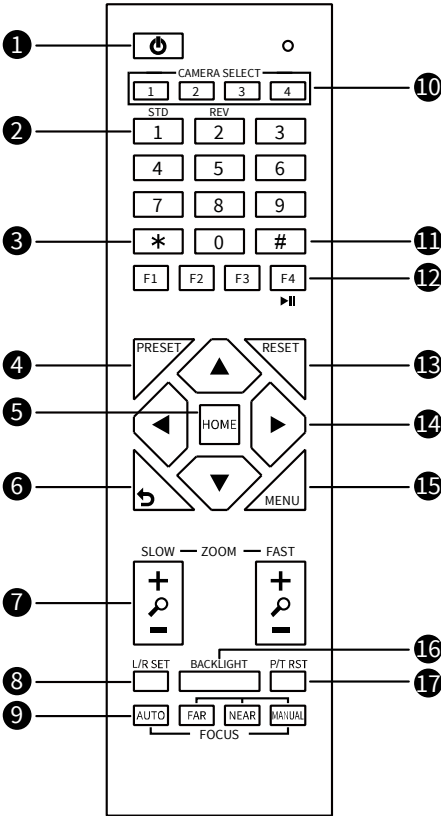
### 5.5 Installation



Note

The installation diagram is for reference only. The brackets and screws are not standard. For packing accessories, please refer to the actual product.

5.6 Remote Control



Key Description

1. Standby Key

Press to enter standby mode

2. Number Key

Press to set preset or call preset

3. \*Key

Use with other keys

4. PRESET Key

Set preset: [PRESET] + Number key (0-9)

5. HOME Key

Confirm selection or press to turn PTZ back to the middle position

6. Return Key

Press to return to the previous menu

7. ZOOM Key

- SLOW: Zoom In [+] or Zoom Out [-] slowly
- FAST: Zoom In [+] or Zoom Out [-] fast

8. L/R SET Key

- Standard: Simultaneously press L/R SET + 1
- Reverse: Simultaneously press L/R SET + 2

9. FOCUS Key

Auto/Manual/Far/Near focus

10. CAMERA SELECT Key

Press to select and control the camera

11. # Key

Use with other keys

12. IR Remote Control Key

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

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

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

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

13. RESET Key

Clear preset position: [RESET] + Number key (0-9)

14. PTZ Control Key

PTZ moved according to the arrow indicates

15. MENU Key

Press to enter or exit OSD Menu

16. BACKLIGHT Key

Backlight ON/OFF: Press repeatedly to enable or disable the backlight compensation.

NOTE:

- Effective only in auto exposure mode.
- If there is a light behind the subject, the subject will become dark, press the backlight key to enable the backlight compensation. Press again to disable this function.

17. P/T RST (PTZ Reset) Key

PTZ starts to self-test after pressed it

Shortcut Set

[\*]+[#]+[1]: OSD menu default English

[\*]+[#]+[3]: OSD menu default Chinese

[\*]+[#]+[4]: Display current IP address

[\*]+[#]+[6]: Quickly recover the default

[\*]+[#]+[8]: View the camera version

[\*]+[#]+[9]: Quickly set up inversion

[\*]+[#]+[MANUAL]: Restore default IP address

## 6 GUI Settings

### 6.1 MENU

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

MENU	
▶	Exposure
	Color
	Image
	P/T/Z
	Noise Reduction
	Setup
	Communication Setup
	Restore Default
	[Home] Enter
	[Menu] Exit

### 6.2 EXPOSURE

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

EXPOSURE	
▶	Mode Auto
	ExpCompMode Off
	Backlight Off
	Gain Limit 3
	Anti-Flicker 50Hz
	Meter Average
	DRC 3
	▲▼Select Item
	◀▶Change Value
	[Menu] Back

**Mode:** Auto, Manual, SAE, AAE, Bright.

**ExpCompMode:** On, Off (Effective only in Auto mode).

**ExpComp:** -7 ~ 7 (Effective only in ExpCompMode item to On).

**Backlight:** On, Off (Effective only in Auto mode).

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

**Gain Limit:** 0 ~ 15 (Effective only in Auto, SAE, AAE, Bright mode).

**Anti-Flicker:** Off, 50Hz, 60Hz (Effective only in Auto, AAE, Bright mode).

**Meter:** Average, Center, Smart, Top.

**Iris:** F1.8, F2.0, F2.4, F2.8, F3.4, F4.0, F4.8, F5.6, F6.8, F8.0, F9.6, F11.0, Close (Effective only in Manual, AAE mode).

**Shutter:** 1/30, 1/60, 1/90, 1/100, 1/125, 1/180, 1/250, 1/350, 1/500, 1/725, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/6000, 1/10000 (Effective only in Manual, SAE mode).

**Gain:** 0 ~ 7 (Effective only in Manual mode).

**DRC:** 0 ~ 8.

### 6.3 COLOR

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

COLOR	
▶	WB Mode Auto
	RG Tuning 0
	BG Tuning +1
	Saturation 100%
	Hue 7
	▲▼Select Item
	◀▶Change Value
	[Menu] Back

**WB Mode:** Auto, Indoor, Outdoor, One Push, Manual, VAR.

**RG:** 0 ~ 255 (Effective only in Manual mode).

**BG:** 0 ~ 255 (Effective only in Manual mode).

**RG Tuning:** -10 ~ +10 (Effective only in Auto, One Push, VAR Mode).

**BG Tuning:** -10 ~ +10 (Effective only in Auto, One Push, VAR Mode).

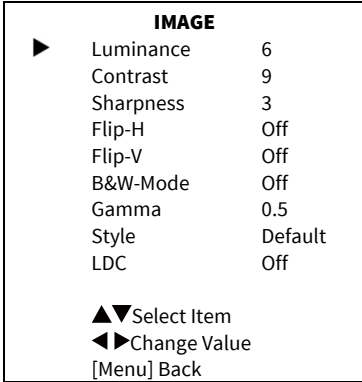
**Saturation:** 60% ~ 200%.

**Hue:** 0 ~ 14.

**Color Temp:** 2500K ~ 8000K (Effective only in VAR mode).

## 6.4 IMAGE

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



**Luminance:** 0 ~ 14.

**Contrast:** 0 ~ 14.

**Sharpness:** 0 ~ 11.

**Flip-H:** On, Off.

**Flip-V:** On, Off.

**B&W-Mode:** On, Off.

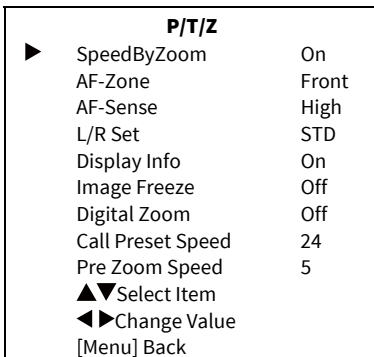
**Gamma:** EXT, Default, 0.45, 0.5, 0.56, 0.63.

**Style:** Default, Norm, Clarity, Clarity (LED), Bright, Soft, 5S.

**LDC:** On, Off.

## 6.5 P/T/Z

Move the main menu cursor to [P/T/Z], and press [HOME] key enter the P/T/Z page, as shown in the following figure.



**SpeedByZoom:** On, Off.

**AF-Zone:** Front, Top, Center, Bottom.

**AF-Sense:** Low, Normal, High.

**L/R Set:** STD, REV.

**Display Info:** On, Off.

**Image Freeze:** On, Off.

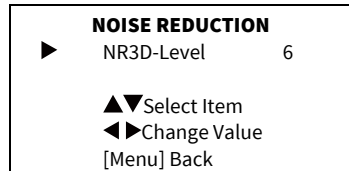
**Digital Zoom:** Off, 2x, 4x, 8x, 16x.

**Call Preset Speed:** 1 ~ 24.

**Pre Zoom Speed:** 0 ~ 7.

## 6.6 NOISE REDUCTION

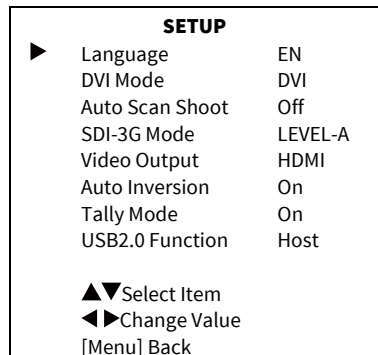
Move the main menu cursor to [Noise Reduction], and press [HOME] key enter the noise reduction page, as shown in the following figure.



**NR3D Level:** Off, 1 ~ 11.

## 6.7 SETUP

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



**Language:** EN, Chinese, Russian.

**DVI Mode:** HDMI, DVI.

**Auto Scan Shoot:** On, Off.

**SDI-3G Mode:** LEVEL-A, LEVEL-B.

**Video Output:** HDMI, SDI.

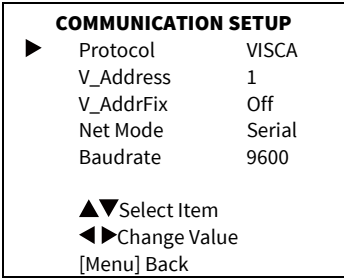
**Auto Inversion:** On, Off.

**Tally Mode:** On, Off.

**USB2.0 Function:** Host, UVC.

6.8 COMMUNICATION SETUP

Move the main menu cursor to [Communication Setup], and press [HOME] key enter the communication setup page, as shown in the following figure.



**Protocol:** Auto, VISCA, PELCO-D, PELCO-P.

**V\_Address:** 1 ~ 7 (Effective only in Auto, VISCA protocol).

**V\_AddrFix:** On, Off (When set to On, useless in 88 30 01 FF Command).

**P\_D\_Address:** 0 ~ 254 (Effective only in Auto, PELCO-D protocol).

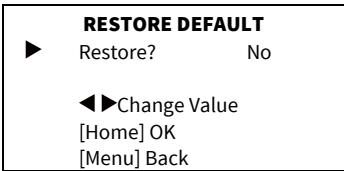
**P\_P\_Address:** 0 ~ 31 (Effective only in Auto, PELCO-P protocol).

**Net Mode:** Serial, Paral.

**Baudrate:** 2400, 4800, 9600, 38400.

6.9 RESTORE DEFAULT

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



**Restore:** Yes, No.



**Note** GUI menu and parameters are subject to change without notice.

7 WEB Settings

7.1 Access Camera

Access <http://192.168.100.88> to pop up the login window, then input username (default: admin) and password (default: admin). After login, it will show as below:



7.2 Control Camera

All pages include two menu bars:

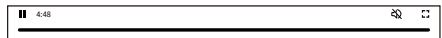
Real time monitoring: displaying video image

Parameter setup: with function buttons.

A. Video Viewing Window

Video viewing window must be same as video resolution, the bigger the resolution is, the bigger the playing area is. Double click viewing window, will show full-screen, double click again, will return to initialized size.

Status bar in viewing window shown as below:



- 1) Video playback pause button: control real-time video pause, stop the last picture, click recoverable video again.
- 2) Audio control buttons: can adjust the volume or set silent mode.
- 3) Full screen switch button.

## B. PTZ Setup

The PTZ Setup interface includes the following elements:

- Directional Controls:** Four arrows (Up, Down, Left, Right) and a Home button.
- Zoom/Focus Controls:** Zoom In, Zoom Out, Focus In, and Focus Out buttons.
- Speed Settings:**
  - Pan Speed: 10 ☒
  - Tilt Speed: 10 ☒
  - Zoom Speed: 5 ☒
  - Focus Speed: 5 ☒
- Preset Management:** Set and Call buttons, a Preset input box, and a PTZ checkbox (checked).
- Navigation:** A Back button.

### 1) Pan and Tilt Control

Up, Down, Left and Right arrows and the home button allow you to manually drive the camera to the desired position.

### 2) Zoom

Zoom In and Zoom Out buttons allow for wide or narrow view of the space.

### 3) Focus

Focus In and Focus Out buttons allow for fine manual focus adjustment if the camera has any problems auto focusing on the difficult object.

### 4) PTZ Speeds

Pan speed can be set at any rate between 1 ~ 24, Tilt speed can be set at any rate between 1 ~ 20. Zoom and Focus speeds can be set at any rate between 1 ~ 7.

### 5) PTZ Presets

After manually setting up a shot that you would like to return to later, you can save presets for quick recall of these positions. Type a number between 0 and 254 into the Preset box.

Click the “Set” button to save the current location with that preset number. Click the “Call” button to cause the camera to return to that position. This enables smooth, quick and convenient control without the need to manually drive the camera.

You can set up preset that user want as below.

Method: Type preset number into the Preset box.

The preset management section shows a Set button, a Call button, and a Preset input box.

Preset: Optional items: 0 ~ 254.

## 6) PTZ/OSD Dropdown

From the dropdown menu, clicking the OSD option will open the on-screen display menu of the camera giving you control from within the IP interface.

## C. Language Selection

The Language selection dropdown menu shows the following options: English, 中文(简) (Chinese Simplified), and Русский (Russian).

Click either “Chinese”, “English” or “Russian” to change the language of the webpage.

## 7.3 Video Settings

The Video Settings interface includes the following settings:

- HDMI/SDI Output:** HDMI ☒
- Video Format:** Dial Priority ☒
- Encode Level:** mainprofile ☒
- First stream:**
  - Encode Protocol:** H264 ☒
  - Resolution:** 1920x1080 ☒
  - Bit Rate:** 4096
  - Frame Rate:** 25 ☒ fps
  - I Key Frame Interval:** 25
  - Bit Rate Control:** CBR ☒

Second stream

Encode Protocol

H264

☒

Resolution

640x360

☒

Bit Rate

4096

Frame Rate

25

☒

fps

I Key Frame Interval

25

Bit Rate Control

CBR

☒

Submit

Cancel

### 1) HDMI/SDI Output

Support HDMI and SDI Output.

### 2) Video Format

Support 50Hz (PAL), 60Hz (NTSC) and Dial Priority three formats.

### 3) Encode Level

Support mainprofile and highprofile two levels.

### 4) Encode Protocol

Support H.264, H.265 and MJPEG protocols.

### 5) Resolution

First stream support 3840x2160, 1920x1080, 1280x720, 1024x576, 720x480, 720x408, 640x480, 640x360. Second stream support 720x480, 720x408, 640x480, 640x360, 480x320, 320x240; The bigger resolution is, the clearer the image will be, more network bandwidth will be taken.

### 6) Bit Rate

The user can specify the bit rate. Generally speaking, the larger of the bit rate, the clearer of the image. However, the configuration of the bit rate needs to be combined with the network bandwidth. When the network bandwidth is narrow and the bit rate is configured larger, the video stream cannot be transmitted normally, and the visual effect is worse.

### 7) Frame Rate

User can specify the size of the frame rate, generally, the frame rate greater, the image more smooth; Frame rate is smaller, the more sense of beating.

### 8) I Key Frame Interval

Set interval between 2 I frame, the bigger interval is the response will be lower from viewing window.


### 9) Bit Rate Control

Code stream control way:

CBR (Constant Bit Rate): Video coder will be coding according to preset speed.

VBR (Variable Bit Rate): Video coder will adjust the speed based on preset speed to gain the best image quality.

## 7.4 Image Settings



Brightness

6

Saturation

4

Contrast

9

Sharpness

3

Hue

7

Flip

☒ On
☐ Off

Mirror

☒ On
☐ Off

Submit

Default

#### 1) Brightness

Brightness of image: 0~14 (Default value is 6).

#### 2) Saturation

Saturation of image: 0~14 (Default value is 4).

#### 3) Contrast

Contrast of image: 0~14 (Default value is 9).

#### 4) Sharpness

Sharpness of image: 0~11 (Default value is 3).

#### 5) Hue

Hue of image: 0~14 (Default value is 7).

#### 6) Flip

Turn On/Off the Flip function.



## 7) Mirror

Turn On/Off the Mirror function.

## 7.5 Audio Settings

Audio Settings

Audio Switch

On

☒

Audio Type

AAC

☒

Sample Rate

48K

☒

Bit Rate

96K

☒

Input Type

LINE IN

☒

Input Vol

20

☒

dB

ADTS Options

Off

☒

Submit

Cancel

### 1) Audio Switch

Enable or disable audio switch.

### 2) Audio Type

Optional items: AAC.

### 3) Sample Rate

Optional items: 44.1K, 48K.

### 4) Bit Rate

Optional items: 96K, 128K.

### 5) Input Type

Input type LINE IN.

### 6) Input Vol

The volume of the channel.

### 7) ADTS Options

Optional items: On, Off.

## 7.6 System Settings

Initialize

Reboot

Reboot

User

UserName

admin

Passwd

\*\*\*\*

☐

Guest

guest

Passwd

\*\*\*\*

☐

Submit

Cancel

## 1) Reboot

Click the “Reboot” button, system restart.

## 2) Username and Password

The user can modify the password (letters and Numbers only).

## 7.7 Network Settings

Lan Settings

IP Configuration Type

Fixed IP Address

☒

IP Address

192.168.100.88

Subnet Mask

255.255.255.0

Gateway

192.168.100.1

DNS Address

8.8.8.8

MAC Address

D4:E0:8E:A9:73:45

Submit

Cancel

Port Settings

HTTP Port

80

RTSP Port

554

TCP Port

5678

UDP Port

1259

Sony Visca

52381

RTMP(S) Settings

First Stream

☐ On
 ☒ Off
 ☐ Video
 ☐ Audio

MRL

rtmp://192.168.100.138/live/stream0

Second Stream

☐ On
 ☒ Off
 ☐ Video
 ☐ Audio

MRL

rtmp://192.168.100.138/live/stream1

SRT Settings

SRT

☒ On
 ☐ Off

SRT Port

4578

SRT Encryption

None

☒

SRT Password

1234564913131

RTSP Settings

RTSP Auth

☐ On
 ☒ Off

ONVIF Settings

ONVIF

☐ On
 ☒ Off

ONVIF Auth

☐ On
 ☒ Off

Multicast Settings

Multicast

☐ On
 ☒ Off

Address

224.1.2.3

Port

6688

**NTP Settings**

NTP time sync ☐ On ☒ Off

Time Zone

Server address

Time interval(min)

Main time show ☐ On ☒ Off

Position

Sub time show ☐ On ☒ Off

Position

### 1) Lan Settings

Default the IP address is 192.168.100.88, the MAC address cannot be modified.

### 2) Port Settings

#### A. HTTP Port

IP address identifies the network device, the device can run multiple web applications, each network program using network port to transmit data, so data transmission to be carried out between the port and port. Port setting is to set up web server program using which port to transmit. When port mapping, need to be consistent with the port number (default port: 80).

#### B. RTSP Port

The 4K PTZ camera support RTSP protocol, use the VLC tools broadcast, default port: 554.

#### C. TCP Port

Support TCP connection then control camera, default port: 5678.

#### D. UDP Port

Support UDP protocol, default port: 1259.

#### E. Sony Visca

Support Sony Visca, default value: 52381.

### 3) RTMP(S) Settings

Setting the MRL of RTMP, select enable or disable video and audio. You can select control code stream of “On”, “Off”, “Video”, “Audio” between in the two streams.

### 4) SRT Settings

Turn On/Off SRT, Setting the SRT Port, SRT Encry and SRT Password.

### 5) RTSP Settings

Turn On/Off RTSP Auth.

### 6) ONVIF Settings

Turn On/Off ONVIF and ONVIF Auth.

### 7) Multicast Settings

Turn On/Off multicast. Setting the multicast address (default value is 224.1.2.3) and port (default value is 6688, then 6688 is the multicast port of the first stream; 6690 is the multicast port of the second stream).

### 8) NTP Settings

Turn On/Off NTP time sync, main time show and sub time show. Setting NTP server address, time interval, main stream position and sub stream position.

## 7.8 Device Information

**Information**

Device ID

Device Type

Software Version

Webware Version

## 7.9 Download Upgrade Program

If you need the camera upgrade program, please contact the manufacturer.



WEB interface and parameters are subject to change without notice.

## 8 Troubleshooting

### Image

- The monitor shows no image
  - 1) Check that the camera power supply is connected, the voltage is normal, and the power indicator light is always on.
  - 2) Turn off the power switch to check whether the camera is self-testing.
  - 3) Check the cable of video platform and TV whether correct connection.
- The video image displayed by the camera lens is jittery
  - 1) Check whether the camera installed position be stabled.
  - 2) Check whether have vibrating machinery or object near the camera.
- There is no video image in Browser  
IE browser does not support H5, you need to use VLC plug-in to view videos. Please access VLC website (<http://www.videolan.org/vlc>) download and install the 32-bit VLC media player, after it installed, access 4K PTZ camera will have normal image display. Other mainstream browsers already support H5 and do not need to install the VLC plug-in.

- Unable to access 4K PTZ camera through Browser
  - 1) Using PC to access the network to test whether the network access can work properly, first of all, the network fault caused by the PC virus can be eliminated, until the PC and 4K PTZ camera can communicate with each other Ping.
  - 2) Disconnect the network, connect 4K PTZ camera and PC separately, and reset the IP address of PC.
  - 3) Check IP address, subnet mask, and gateway settings for 4K PTZ camera.
  - 4) Check whether the MAC address is conflicts.
  - 5) Check whether the web port is modified. The default web port is 80.
- Forget the IP address or login password  
Please remember (The default IP address: 192.168.100.88; default user name: admin; default password: admin).

### Control

- Remote control cannot control
  - 1) Check and replace the new battery for the remote controller.
  - 2) Check whether the camera working mode is correct.
  - 3) Check whether the address of remote control can match the camera.
- Serial port cannot control
  - 1) Check whether the camera protocol, address and baud rate such is the same.
  - 2) Check whether the control line is connected well.











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