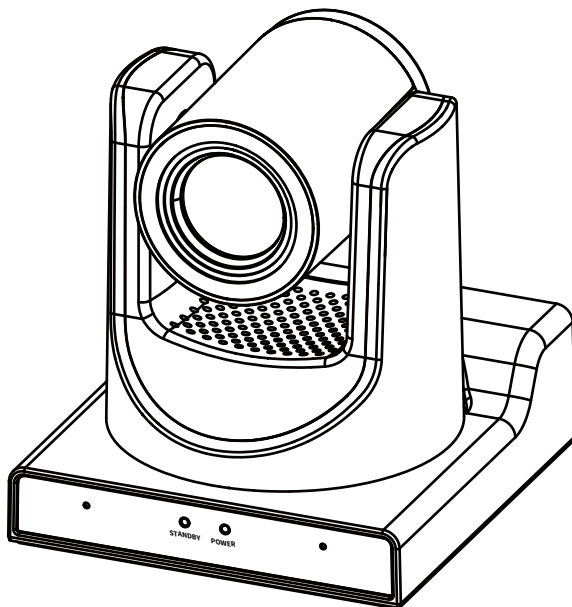# 1080P HD AI PTZ Camera

User Manual

English (V1.0)

Copyright

All contents of this manual, whose copyright belongs to our corporation, cannot be cloned, copied or translated without the permission of our corporation.

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

1 Safety Precautions

- 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.
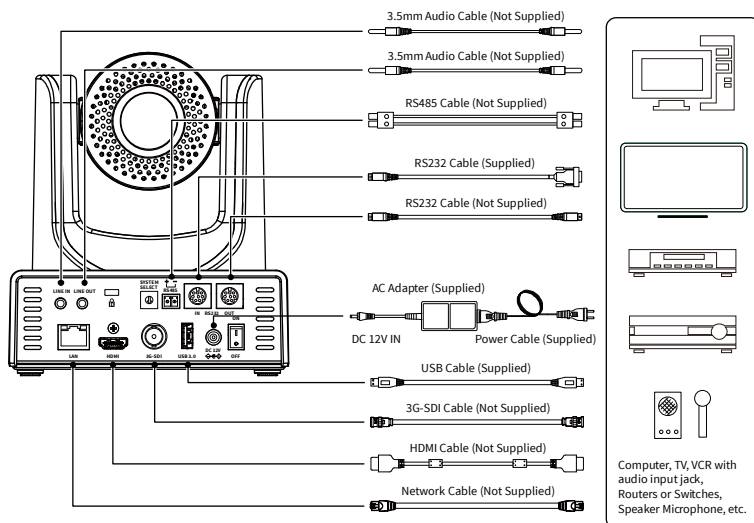
⚠️ **Notice**

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.

1

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

Video Format			
0	1080P60	8	-
1	1080P50	9	-
2	1080I60	A	1080P59.94
3	1080I50	B	1080I59.94
4	720P60	C	1080P29.97
5	720P50	D	-
6	1080P30	E	-
7	1080P25	F	720P59.94

5 About Product

5.1 Features

● **60.7° Wide-angle Lens + 30x Optical Zoom**
60.7° high-quality ultra-wide-angle lens, optical zoom up to 30x, support 8x digital zoom.

● **1080P Full HD**
Using 1/2.8-inch high-quality HD CMOS sensor with effective 2.07 million pixels, it can achieve high-quality images with a maximum resolution of 1920x1080.

● **New ISP Image Processing Algorithm**
The new generation of ISP image processing algorithm provides more complete white balance and automatic exposure functions, which significantly improves the image output performance of the camera, and the imaging effect is also better. Widely used in education recording and broadcasting, distance education,

video conferencing, live broadcasting, broadcasting and other industries.

● **Upgraded AI Technology**
Using upgraded AI technology, through face recognition, it can accurately determine the location of people, realize automatic tracking and automatic frame selection.

● **1080P60 NDI®|HB**
It supports 1080P60 NDI®|HB technology, ultra-low latency high-quality audio and video signal transmission, and can achieve unparalleled ultra-high-resolution image quality and lossless effects that are closer to vision.

● **Leading Auto Focus Technology**
Using advanced focusing algorithm, the lens can focus quickly, accurately and stably.

● **Audio Processing Algorithm**
The exclusive audio processing algorithm can eliminate reverberation, effectively reduce environmental noise, and support EQ adjustment to optimize sound effects; the device supports dual mic pickup, and can also be connected to external microphones, wireless bees, etc., to meet the pickup needs of most scenarios.

● **Multiple Interfaces**
Support HDMI and 3G-SDI interface, effective transmission distance of 3G-SDI is up to 150 meters (1080P30). HDMI, 3G-SDI, 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.

5.2 Specifications

Camera	
Signal System	1080P60, 1080P59.94, 1080P50, 1080I60, 1080I59.94, 1080I50, 1080P30, 1080P29.97, 1080P25, 720P60, 720P59.94, 720P50
Sensor	1/2.8 inch, CMOS, Effective pixels: 2.07M

Scanning Mode	Progressive	**Network Features**	
Lens	30x, f=4.42mm ~ 132.6mm, F1.8 ~ F2.8	Video Compression	H.264/H.265
Digital Zoom	8x	Video Stream	First Stream, Second Stream
Minimum Illumination	0.5 Lux @ (F1.8, AGC ON)	First Stream Resolution	1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360
Shutter	1/30s ~ 1/10000s	Second Stream Resolution	1280x720, 1024x576, 720x480, 640x360, 480x272, 320x240, 320x180
White Balance	Auto, VAR, Manual, One Push, Indoor, Outdoor	Video Bit Rate	32Kbps ~ 20480Kbps
Backlight Compensation	Support	Bit Rate Control	CBR, VBR
Digital Noise Reduction	2D & 3D Digital Noise Reduction	Frame Rate	1fps ~ 60fps
SNR	≥55dB	Audio Compression	AAC
Horizontal FOV	60.7° ~ 2.28°	Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Vertical FOV	34.1° ~ 1.28°	Protocols	NDI, TCP/IP, HTTP, RTSP, RTMP/RTMPS, ONVIF, DHCP, SRT, Multicast
Pan Angle	±170°	**Interfaces**	
Tilt Angle	-30° ~ +90°	LINE IN Interface	1 x LINE IN: 3.5mm Audio Interface
Pan Speed	1.7° ~ 100°/s	LINE OUT Interface	1 x LINE OUT: 3.5mm Audio Interface
Tilt Speed	1.7° ~ 69.9°/s	Communication Interface	1 x RS485: 2pin phoenix port, Max Distance: 1200m, Protocol: VISCA/Pelco-D/Pelco-P
Image Flip	Support		1 x RS232 IN: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA/Pelco-D/Pelco-P
Image Freeze	Support		
Preset Position	255		1 x RS232 OUT: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA network use only
Preset Accuracy	0.1°		
Audio Features		Network Interface	1 x LAN: 10M/100M Adaptive Ethernet Port
Microphone Array	Built-in dual microphones, 100Hz to 16KHz frequency response	HDMI Interface	1 x HDMI: Version 1.3
Audio Input	Support LINE IN audio input	3G-SDI Interface	1 x 3G-SDI: BNC type, 800mVp-p, 75Ω. Along to SMPTE 424M standard
Audio Output	Support LINE OUT, HDMI, USB and other audio output		
USB Features		USB Interface	1 x USB 3.0: Type A
Operate System	Windows 7/8/10, Mac OS X, Linux, Android	Power Jack	JEITA type (DC IN 12V)
Color System / Compression	YUY2/MJPEG/H.264		
USB Audio	Support		
USB Video Protocol	UVC 1.1/UVC 1.5		
UVC PTZ Control	Support		

General Specifications	
Input Voltage	DC 12V
Input Current	Max. 1.0A
Operating Temperature	0°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	Max. 12W
Dimension	146mm x 169mm x 168mm
Net Weight	About 1.5Kg

📝 **Note** Product specifications and parameters are subject to change without notice.

5.3 Interface and Switch
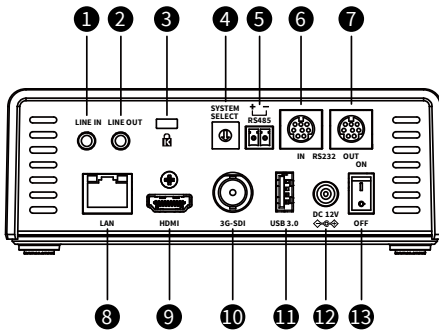
Item	Description
1	LINE IN Interface
2	LINE OUT Interface
3	Security Slot
4	System Select Switch
5	RS485 Interface
6	RS232 IN Interface
7	RS232 OUT Interface
8	LAN Interface
9	HDMI Interface
10	3G-SDI Interface
11	USB 3.0 Interface
12	DC 12V Interface
13	Power Switch

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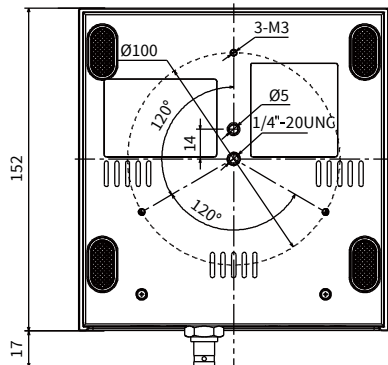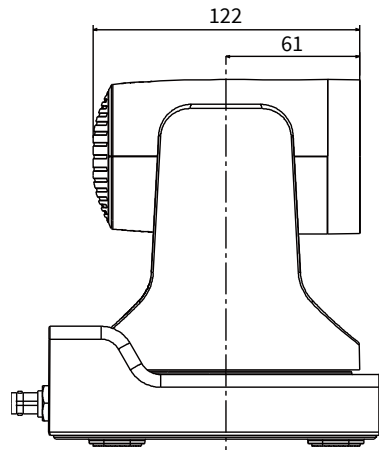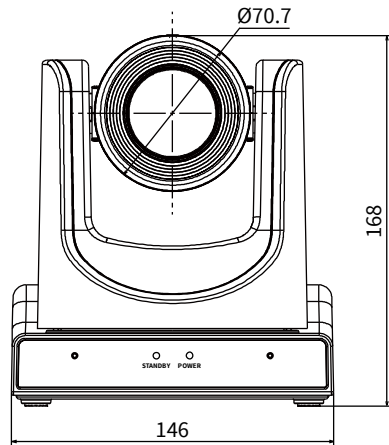
5.5 Installation
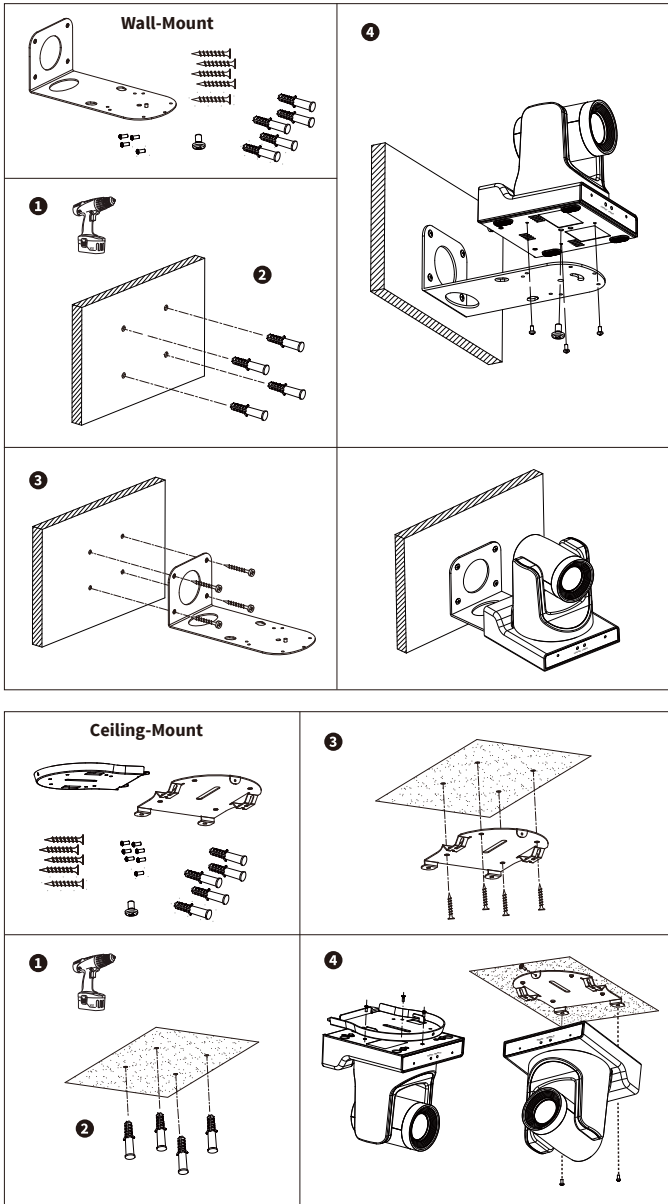
Note	The installation diagram is for reference only. The brackets and screws are not standard. For packing accessories, please refer to the actual product.

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

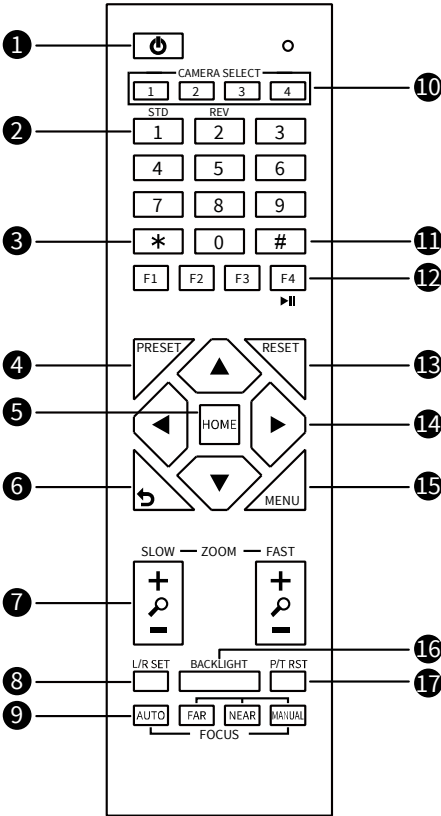Set preset: [PRESET] + Number key (0-9)

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
ENG/中文            ENG
AI MODE            Off
Video Format       1080P60
   Style           Default
  Exposure         ->
   Color           ->
   Image           ->
  Display          ->
PTZ Setting        ->
  Setting          ->
  Version          ->
  Default          ->


    [MENU] Return / [HOME] Enter
```

ENG/中文: ENG，中文.
AI MODE: Off, Single Track, Frame Track, Demo Mode.
Video Format: 1080P60, 1080P50, 1080I60, 1080I50, 1080P30, 1080P25, 720P60, 720P50.
Style: Default, Cold, Warm, Clear, Soft, User1, User2, User3.

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
>    AE               Auto
     Flicker          50Hz
     Expcomp Mode     On
     Expmode          2
     Backlight        Off
     Gain Limit       15
     DRC Mode         Off


    [MENU] Return / [HOME] Enter
```

AE: Auto, Manual, Iris Priority, Shutter Priority, Bright Priority.
Flicker: Off, 50Hz, 60Hz (Effective only in Auto, Iris Priority, Bright Priority mode).
Expcomp Mode: On, Off (Effective only in Auto, Iris Priority mode).
Expmode: -7~7 (Effective only in Expcomp Mode to On).
Backlight: On, Off (Effective only in Auto, Iris Priority mode).
Bright: 0~99 (Effective only in Bright Priority mode).
Gain Limit: 0~32 (Effective only in Auto, Iris Priority, Bright Priority mode).
Iris: F1.8, F2.0, F2.4, F2.8, F3.4, F4.0, F4.8, F5.6, F6.8, F8.0, F9.6, F11, Off (Effective only in Manual, Iris Priority mode).
Shutter: 1/30, 1/50, 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, Shutter Priority mode).
Gain: 0~31 (Effective only in Manual, Shutter Priority mode).
DRC Mode: Manual, Auto, Off.
DRC: 0~14 (Effective only in DRC Mode to Manual).

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
>    AWB              Auto
     Sens             Low
     R-Tuning         0
     B-Tuning         0
     Hue              50
     Saturation       100

    [MENU] Return / [HOME] Enter
```

AWB: Auto, VAR, Manual, One Push, Indoor, Outdoor.
Sens: Low, Middle, High.

R-Gain: 0~1023 (Effective only in Manual, One Push mode).

B-Gain: 0~1023 (Effective only in Manual, One Push mode).

R-Tuning: -128~128 (Effective only in Auto, Temp, One Push mode).

B-Tuning: -128~128 (Effective only in Auto, Temp, One Push mode).

Hue: 0~99.

Saturation: 0~200.

Temp: 2000 ~ 8500 (Effective only in Temp 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.

```
                  Image
   >    Brightness        50
        Contrast          50
        Sharpness Mode    Auto
        Gamma Mode        Manual
        Gamma             Ext
        NR-2D Mode        Auto
        NR-3D Mode        Auto

        [MENU] Return / [HOME] Enter
```

Brightness: 0~99.

Contrast: 0~99.

Sharpness Mode: Manual, Auto.

Sharpness: 0~25 (Effective only in Sharpness Mode to Manual).

Gamma Mode: Manual, Auto.

Gamma: Ext, 0.45, 0.5, 0.54, 0.56, 0.63 (Effective only in Gamma Mode to Manual).

NR-2D Mode: Manual, Auto.

NR-2D: 0~99 (Effective only in NR-2D Mode to Manual).

NR-3D Mode: Manual, Auto.

NR-3D: 0~15 (Effective only in NR-3D Mode to Manual).

6.5 Display

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

```
                  Display
   >    OSD-Dir           0
        Frac Rate         Off
        HDMI Mode         HDMI
        SDI Mode          Level A
        Flip-H            Off
        Flip-V            Off
        Freeze            Off

        [MENU] Return / [HOME] Enter
```

OSD-Dir: 0, 90, 180, 270.

Frac Rate: On, Off.

HDMI Mode: HDMI, DVI.

SDI Mode: Level A, Level B.

Flip-H: On, Off.

Flip-V: On, Off.

Freeze: On, Off.

6.6 P/T/Z Setting

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

```
               P/T/Z Setting
   >    AF-Sense          High
        AF-Zone           Front
        Focus Limit       Off
        LR Mode           STD
        Motion Sync       Off
        Horizontal Speed  23
        Vertical Speed    19
        Zoom Speed        7
        PTbyZoom          On

        [MENU] Return / [HOME] Enter
```

AF-Sense: High, Normal, Low.

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

Focus Limit: On, Off.

Near Focus Limit: 1M, 1.5M, 2M, 3M, 4M, 5M, 6M, 8M, 10M, 15M, 20M (Effective only in Focus Limit to On).

Far Focus Limit: 15M, 20M, Infinity (Effective only in Focus Limit to On).

LR Mode: STD, REV.

Motion Sync: On, Off.

Horizontal Speed: 0~23.

Vertical Speed: 0~19.

Zoom Speed: 0~7.

PTbyZoom: On, Off.

6.7 Setting

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

```
               Setting
   >     Visca Addr      1
         Visca Mode      Series
         Baud Rate       9600
         DHCP            Off
         IP Addr         192.168.100.88
         MAC             d4e08e548d13

         [MENU] Return / [HOME] Enter
```

Visca Addr: 1~7 (Effective only in VISCA protocol).

Visca Mode: Serial, Paral.

Baud Rate: 2400, 4800, 9600, 19200, 38400, 57600, 115200.

DHCP: On, Off.

IP Addr: 192.168.100.88.

MAC: d4e08e548d13.

6.8 Version

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

```
               Version
      Main           X8.02.15
      AF             14.04.04
      Date           2022-08-18
      Code           VF1
      NDI License    Okay

         [MENU] Return / [HOME] Enter
```

Main: Display the version number of the main program of the camera.

AF: Display the camera autofocus version number.

Date: Display the burning date of the main program version of the camera.

Code: Display the camera code.

NDI License: Display NDI license verification results.

6.9 Default

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

```
               Default
   >     Reset           No

         [MENU] Return / [HOME] Enter
```

Reset: 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:

■ 4:48	🔇 ⛶
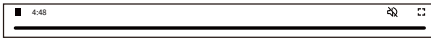
1) Video playback pause button: control real-time video pause, stop the last picture, click recoverable video again.

2) Audio control buttons: can adjust the volume or set silent mode.

3) Full screen switch button.

B. PTZ Setup
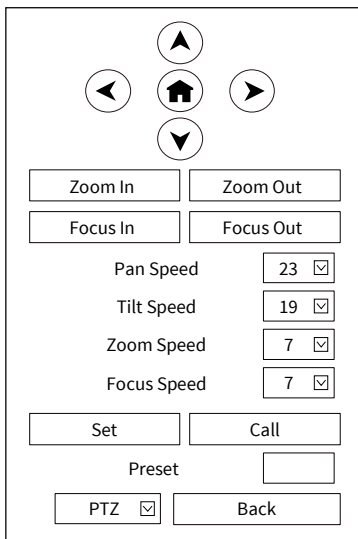
1) Pan and Tilt Control

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.
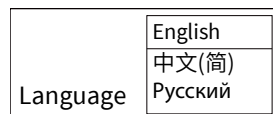
Set	Call
Preset	
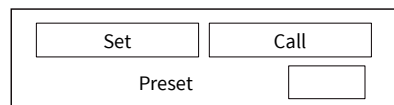
Preset: Optional items: 0 ~ 254.

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

Language	English
	中文(简)
	Русский

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

7.3 Video Settings

Video Settings		
	Frac Rate	○ On ● Off
First stream		
	Encode Level	mainprofile ▽
	Encode Protocol	H264 ▽
	Resolution	1920x1080 ▽
	Bit Rate	8192
	Frame Rate	60 ▽
	I Key Frame Interval	50
	Bit Rate Control	CBR ▽
	Slice Split Enable	off ▽
	Slice Size	23
Second stream		
	Encode Level	mainprofile ▽
	Encode Protocol	H264 ▽
	Resolution	640x360 ▽
	Bit Rate	1024
	Frame Rate	30 ▽
	I Key Frame Interval	30
	Bit Rate Control	CBR ▽
	Slice Split Enable	off ▽
	Slice Size	23
	Submit	Cancel

1) Frac Rate

Turn On/Off Frac Rate.

2) Encode Level

Support baseline, mainprofile, highprofile and svc-t four levels.

3) Encode Protocol

Support H.264 and H.265 protocols.

4) Resolution

First stream support 1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360. Second stream support 1280x720, 1024x576, 720x480, 640x360, 480x272, 320x240, 320x180; The bigger resolution is, the clearer the image will be, more network bandwidth will be taken.

5) 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.

6) 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.

7) I Key Frame Interval

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

8) 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.

9) Slice Split Enable

Enable or disable slice split function.

10) Slice Size

Set the size of slice.

7.4 Image Settings

Brightness	-	50	+
Saturation	-	100	+
Contrast	-	50	+
Sharpness	-	20	+
Hue	-	50	+
Flip	○ On	● Off	
Mirror	○ On	● Off	
	Submit	Cancel	Default

1) Brightness

Brightness of image: 0~99 (Default value is 50).

2) Saturation

Saturation of image: 0~200 (Default value is 100).

3) Contrast

Contrast of image: 0~99 (Default value is 50).

4) Sharpness

Sharpness of image: 0~99 (Default value is 20).

5) Hue

Hue of image: 0~99 (Default value is 50).

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 L	2	☑
Input Vol R	14	☑
	Submit	Cancel

1) Audio Switch

Turn On/Off audio switch.

2) Audio Type

Optional items: AAC.

3) Sample Rate

Optional items: 32K, 48K.

4) Bit Rate

Optional items: 96K, 128K, 256K.

5) Input Type

Optional items: LINE IN, MIC.

6) Input Vol L

The volume of the left channel.

7) Input Vol R

The volume of the right channel.

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	Manual ☑
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
NTP Settings	
Time Zone	(GMT+08:00) Fuzhou, China ☑
Server Address	cn.ntp.org.cn
Time Show	○ On ● Off
Position	X 10 Y 100
Subtitle Display	○ On ● Off
Subtitle Content	Beijing Meeting Room
	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
MRL	rtmp://192.168.100.138/live/stream0
Second Stream	○ On ● Off
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

Submit   Cancel

1) Lan Settings

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

2) NTP Settings

Setting NTP Time Zone and Server Address. Turn On/Off Time Show, set the position of the Time Show. Turn On/Off Subtitle Display, set the Subtitle Content of the camera screen.

3) Port Settings

A. HTTP Port

IP address identifies 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 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.

4) RTMP(S) Settings

Turn On/Off first stream or second stream, setting the MRL of RTMP.

5) SRT Settings

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

6) RTSP Settings

Turn On/Off RTSP Auth.

7) ONVIF Settings

Turn On/Off ONVIF and ONVIF Auth.

7.8 NDI® Settings

NDI® Settings

NDI®|HB	○ On ● Off
NDI License	ok
Server IP	192.168.100.1
Group Name	Public
Key	eFNNO9JW
NDI® Firmware Version	v5.1.1

Submit   Cancel

1) NDI®|HB

Turn On/Off NDI®|HB.

2) NDI License

Display NDI License verification results.

3) Server IP

Setting NDI® Server IP address.

4) Group Name

Setting NDI® Group Name.

5) Key

Setting NDI® Key.

6) NDI® Firmware Version

Display NDI® Firmware Version.

7.9 Device Information

Information	
Device ID	HD Camera
Device Type	V.F1
Software Version	X8.02.15
Webware Version	v1.5.5
Device Serial Number	X6v19260f6c9
	Submit Cancel

7.10 Download Upgrade Program

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

📝 **Note** 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 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 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 camera can communicate with each other Ping.

2) Disconnect the network, connect camera and PC separately, and reset the IP address of PC.

3) Check IP address, subnet mask, and gateway settings for 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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