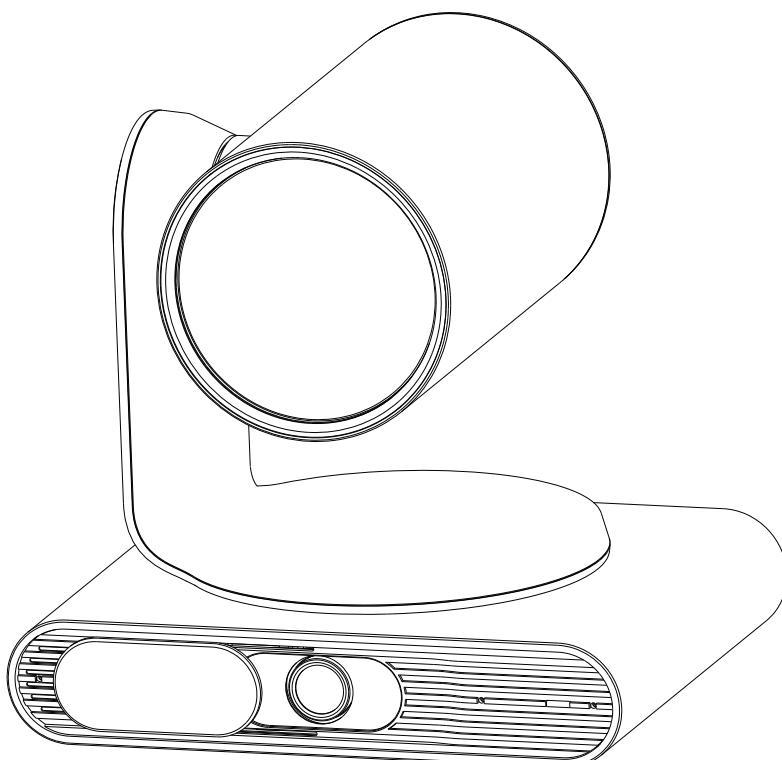


# **MAXHUB PTZ Camera**

**Model: UC P30**



## **User Manual**

V1.3

**MAXHUB**

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### • Electrical Safety

All installation and operational procedures must comply with the relevant electric safety standards.

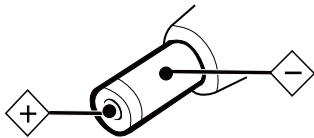
### • Caution to Transport

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

### • Power Supply

The power supply of this product is +12V, with a maximum electrical current of 2A.

For your reference, the polarity of the power supply plug is illustrated below:



### • Installation Precautions

To avoid damage to the camera lens, do not grasp or touch the lens by hand.

Do not use the camera in a corrosive liquid, gas, or solid environment to prevent damage to the plastic material covering the lens.

Ensure that there are no obstacles within the camera's rotation range before powering on.

Do not power on the camera before installation is complete.



### WARNING

Do not Dismantle the Camera.

We accept no liability for any unauthorised modification or dismantling.

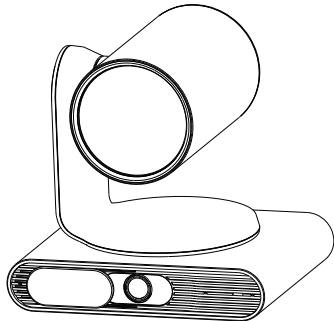
Electromagnetic fields of specific frequencies may affect the camera's functionality and image quality.

### • More Help

For FAQs, technical support, software and user manual download, please visit: <https://www.maxhub.com>

## 1. Package Contents

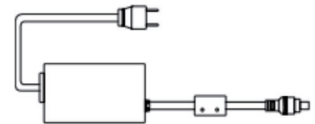
Please check all the supplied accessories are included in the packing list:



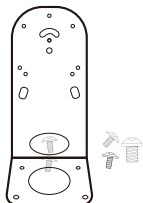
UC P30



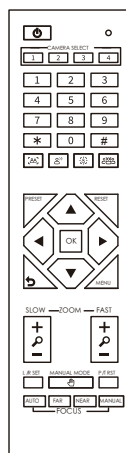
USB-C to USB-A Cable  
(2 m / 6.56 ft)



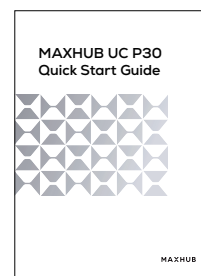
Power Adapter



Mounting Kits



Remote Control

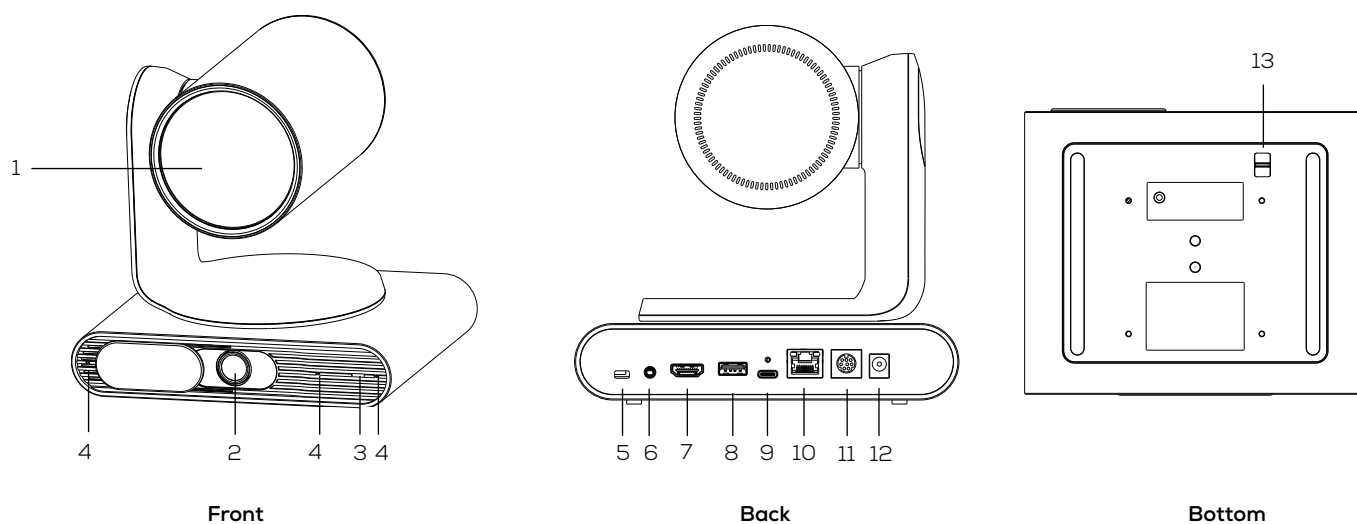


Quick Start Guide

## 2. Product Introduction

### 2.1. Overview

Camera:

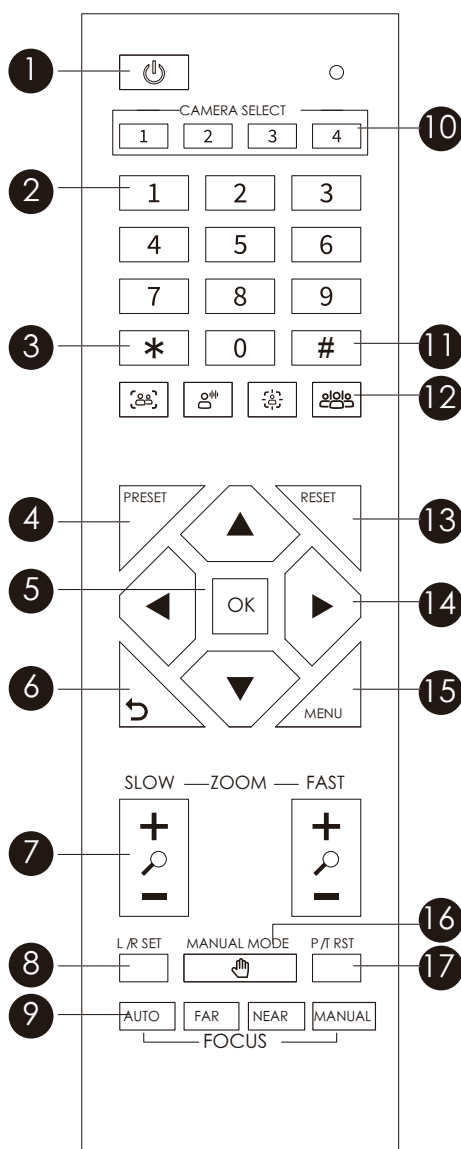


No.	Item	Description
1	Tele-Camera	Optical zoom lens, for displaying the image.
2	Wide Camera	AI lens, for AI detection and recognition.
3	Status LED*	For indicating the various states of the device by light flashing.
4	Built-in Microphone Array	Only for voice tracking.
5	Kensington Lock	For locking the device via universal security cable.
6	Audio Port	Only for custom development, not suitable for standard audio device.
7	HDMI Out Port (HDMI 1.4)	For display the image on other screen through the HDMI channel.
8	USB 2.0 Port	Type-A (host)
9	USB 3.0 Port	Type-C (device, to connect PC)
10	LAN Port	10M/ 100M/ 1000M, Support PoE+
11	RS232 In/Out Port	Supports VISCA/ Pelco-D/ Pelco-P.
12	DC 12V Power Jack	For connecting to power adapter.
13	Adjustment Button (AI Lens)	Adjust the vertical angle of the AI lens ( $\pm 10^\circ$ ).

\* LED Indicator:

LED Status	Description
Solid Red	Power-off (only when power cable is connected)
Solid Orange	Power-on / USB cable is connected but camera doesn't have any streaming out.
Soild White	Video on
Flashing Blue	Firmware upgrading
Flash Once	Receive remote control signals.

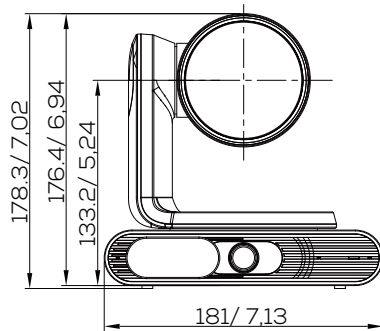
Remote Control:



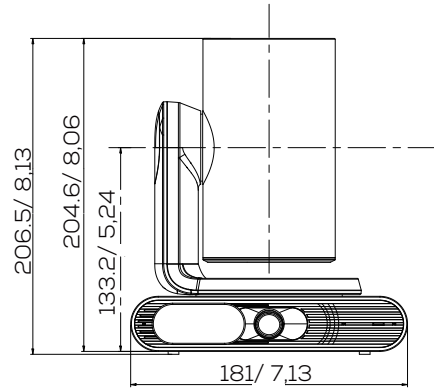
No.	Buttons	Description
1	Power	To enter power saving mode (only when power cable is connected).
2	Number Buttons 0-9	To Save a Preset-Move camera to desired position. Press the <b>PRESET</b> button and then the Number buttons <b>0-9</b> to store the current camera position. Press the Number buttons <b>0-9</b> to load a saved camera position.
3	*	To be used in conjunction with other buttons.
4	PRESET	To Save a Preset-Move camera to desired position. Press the <b>PRESET</b> button and then the Number buttons <b>0-9</b> to store the current camera position.
5	OK	In OSD menu, press the <b>OK</b> button to confirm your selection. In other menus, press the <b>OK</b> button to return PTZ camera back to the HOME position.
6	Return	In OSD menu, press the <b>Return</b> button to go back to previous menu.
7	Zoom In/Out	Zooms camera in or out at a slow or fast speed.
8	L/R SET	Press the <b>L/R SET</b> button and then the Number button <b>[1]</b> to make camera pan in a forward direction. Press the <b>L/R SET</b> button and then the Number button <b>[2]</b> to make camera pan in a reverse direction.
9	FOCUS Buttons	1. <b>AUTO</b> : Automatically adjusts the focus distance. 2. <b>FAR</b> : In Manual Focus mode, press the <b>FAR</b> button to change the camera focus at a far distance. 3. <b>NEAR</b> : In Manual Focus mode, press the <b>NEAR</b> button to change the camera focus at a near distance. 4. <b>MANUAL</b> : Switch the camera to the Manual Focus mode.
10	CAMERA SELECT Buttons 1/2/3/4	Select one of the cameras to control. One remote controls up to four cameras of MAXHUB UC P30. 1. Press the <b>[*] + [#] + [1]</b> (CAMERA SELECT) buttons in a sequence to set the camera as No.1, and set other cameras as No. 2/3/4 in the same way. 2. Press the CAMERA SELECT buttons <b>1/2/3/4</b> to select the camera to be controlled according to your setting.
11	#	To be used in conjunction with other buttons.
12	AI Modes	Switch to a specific AI mode. 1. <b>Auto Framing</b> : Captures all participants in a panoramic image. 2. <b>Voice Tracking</b> : Focuses on an speaking person with a close-up view. 3. <b>People Tracking</b> : Tracks a selected person with a close-up view when he/she moves around. 4. <b>Smart Gallery</b> : Automatically captures all participants with a close-up view.
13	RESET	Press the <b>RESET</b> button and then the Number buttons <b>0-9</b> to clear the preset camera position.
14	Directional Buttons	1. In Manual Mode (camera tracking), press the <b>Directional buttons</b> to move the camera or press and hold for at least two seconds to continuously pan or tilt. 2. In OSD menu, press the <b>Directional buttons</b> to change your selections. 3. In Presenter Tracking mode, press the <b>Directional buttons</b> to choose a presenter.
15	Menu	Press the <b>Menu</b> button to pull up or exit OSD menu.
16	MANUAL MODE	Press the <b>Manual Mode</b> button to enter the Camera Manual Tracking mode.
17	P/T RST	Press the <b>P/T RST</b> button to preset Pan/Tilt self-test.
/	Shortcut Set	1. Press the <b>[*] + [#] + [7]</b> buttons in sequence to display current IP address. 2. Press the <b>[*] + [#] + [8]</b> buttons in sequence to check the firmware version. 3. Press the <b>[*] + [#] + [MANUAL]</b> buttons in sequence to restore to default IP address.

## 2.2. Dimension

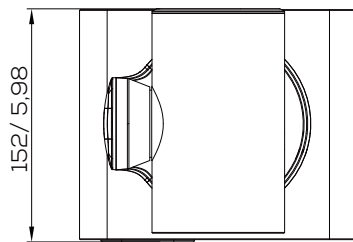
Unit: mm / in



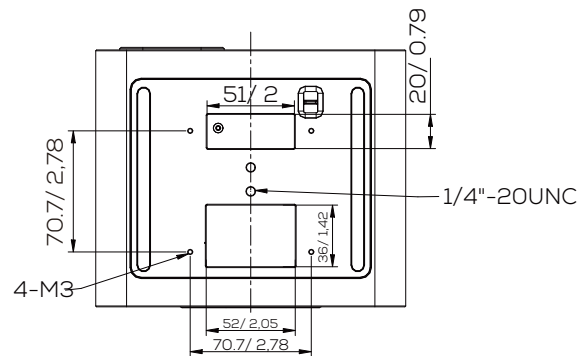
Front (with camera horizontal)



Front (with camera vertical)



Top



Bottom

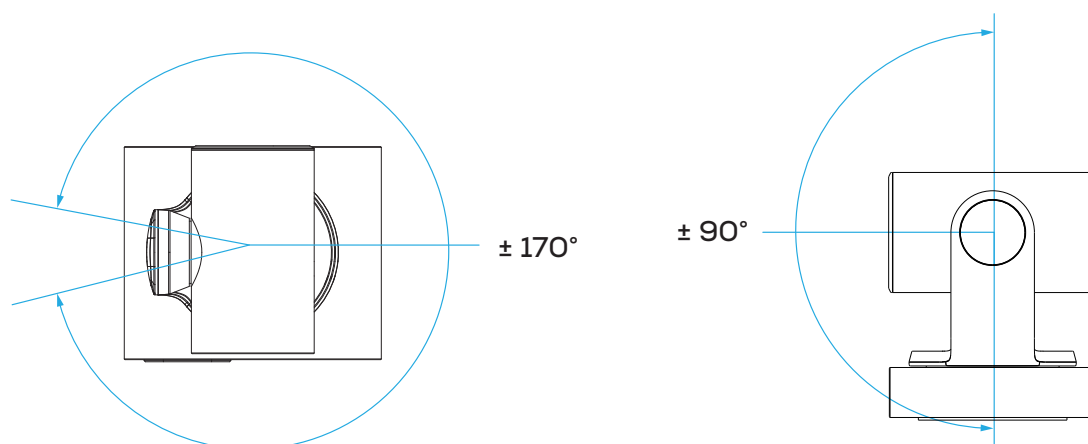


### NOTE

The dimension data with inch unit are converted from the data with mm unit. In case of deviation or error, please always refer to the data with mm unit.

**Pan and Tilt Angle:**

The camera can be rotated  $\pm 170^\circ$  horizontally and  $\pm 90^\circ$  vertically.

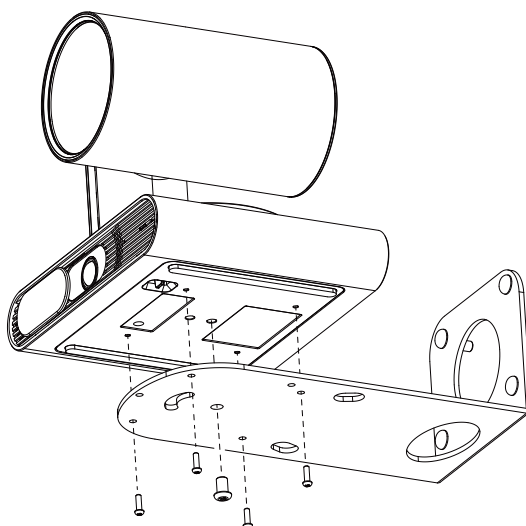


### 3. Installation

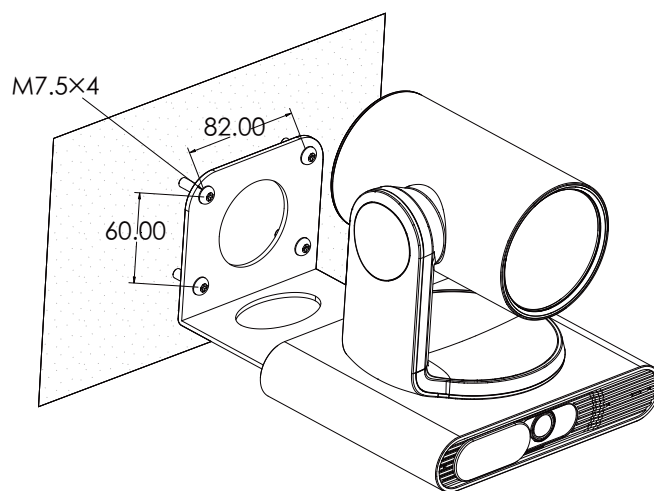
#### 3.1. Wall Mount Installation

Take out the wall mount kits and install the camera according to the following steps:

1. Attach the wall bracket on the device with 5 pcs of screws. Installation direction is as below:



2. Attach the wall bracket on the wall with 4 pcs of screws, keeping the camera horizontally.

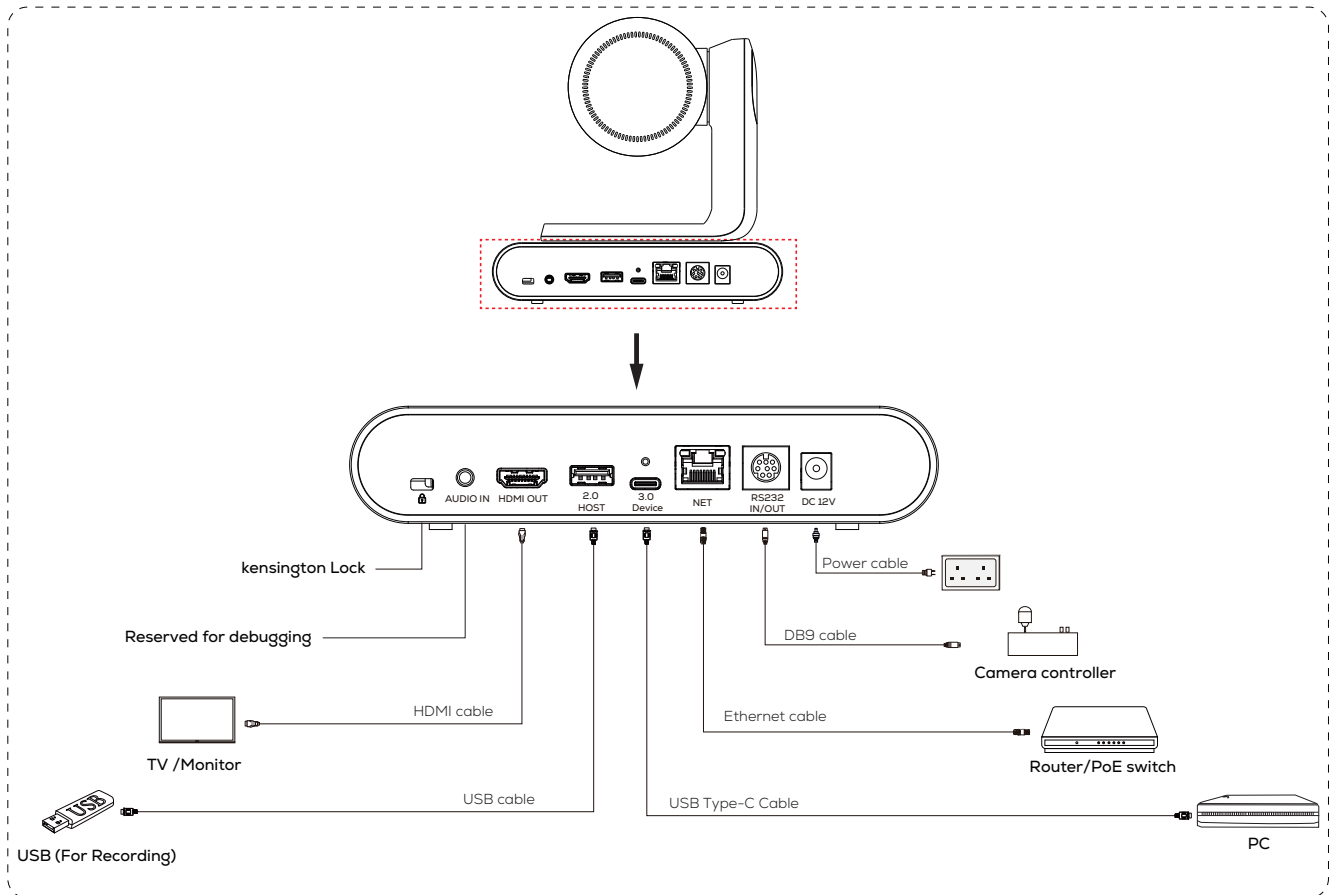


#### CAUTION

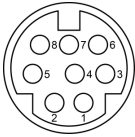
1. For ceiling mounting, please check with your reseller or local installer for a suitable ceiling mount bracket as the installation would depend on the type of ceiling you have.
2. For TV mounting, please check with your reseller or local installer for a suitable TV mount bracket as the installation would depend on the brand, model and size of your TV.

## 4. Connection

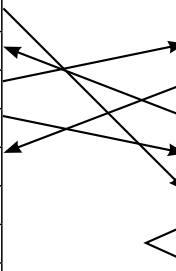
### 4.1. Interface Description

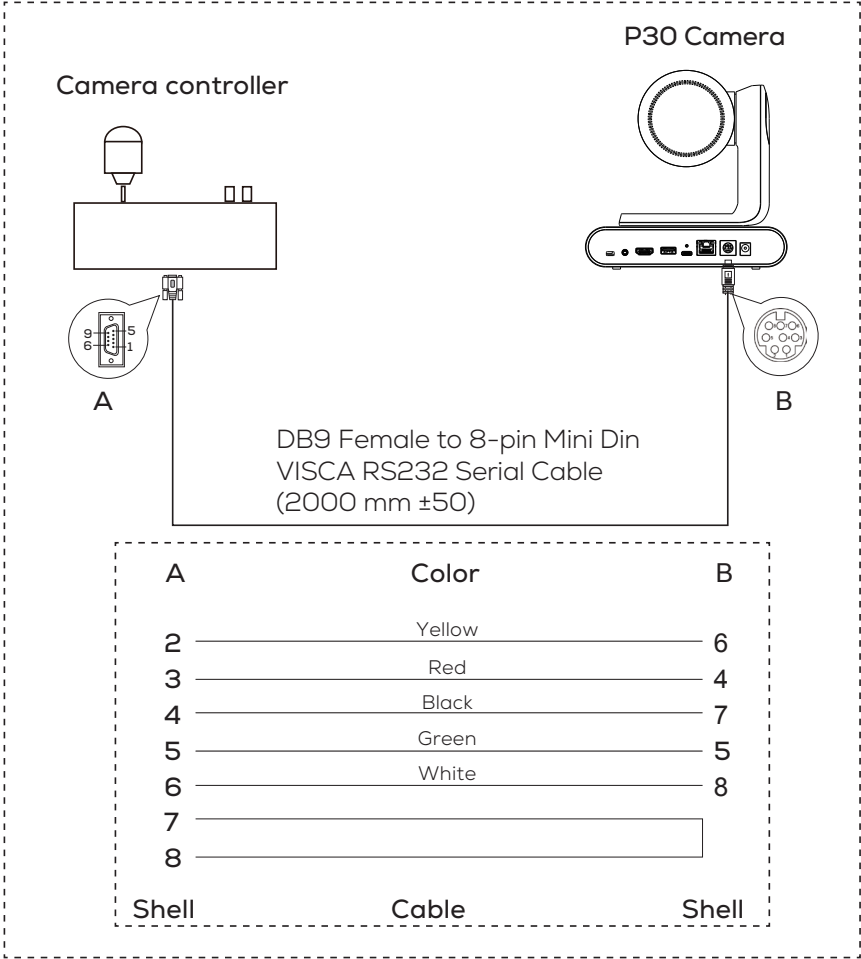


4.2. RS232 Interface

	No.	Function
	1	DTR
	2	DSR
	3	TXD
	4	GND
	5	RXD
	6	GND
	7	IR OUT
	8	NC

The correspondence between the camera and Windows DB-9 pin:

Camera		Windows DB-9
1. DTR		1. CD
2. DSR		2. RXD
3. TXD		3. TXD
4. GND		4. DTR
5. RXD		5. GND
6. GND		6. DSR
7. IR OUT		7. RTS
8. NC		8. CTS
		9. RI



 NOTE

The above diagram is only an example. The specific situation depends on the camera controller you have.

## 5. GUI Setting

### 5.1. MENU

Press **[MENU]** button to display the Main Menu on the screen, and use arrow button to move the cursor to the item to be set.

Press **[OK]** button to enter the corresponding sub-menu.

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

### 5.2. EXPOSURE

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

EXPOSURE		
►	Mode	Auto
	ExpCompMode	On
	Backlight	Off
	Gain Limit	9
	Anti-Flicker	60Hz
	Meter	Average
	DRC	2
▲▼		
◀▶	Select Item	
	Change Value	
	[Menu] Back	

**Mode:** Exposure mode, optional items: Auto, Manual, SAE, AAE, Bright.

**ExpCompMode:** Exposure the compensation mode, optional items: On, Off (Effective only in Auto mode).

**Backlight:** Set the backlight compensation, optional items: On, Off (Effective only in Auto mode).

**Bright:** Intensity control, optional items: 0 ~ 17 (Effective only in Bright mode).

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

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

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

**Iris:** Aperture value, optional items: 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:** Optional items: 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:** Optional items: 0 ~ 7 (Effective only in Manual mode).

**DRC:** DRC strength, optional items: 0 ~ 8.

### 5.3. COLOR

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

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

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

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

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

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

**Hue:** Optional items: -10 ~ +10.

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

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

### 5.4. IMAGE

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

IMAGE		
▶	Luminance	7
	Contrast	7
	Sharpness	6
	Flip-H	Off
	Flip-V	Off
	B&W-Mode	Off
	Gamma	Default
	Style	Norm
▲▼ Select Item		
◀▶ Change Value		
[Menu] Back		

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

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

**Sharpness:** Sharpness adjustment, optional items: Auto, 0 ~ 15.

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

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

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

**Style:** Optional items: Default, Norm, Bright, PC.

## 5.5. P/T/Z

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

P/T/Z		
▶	SpeedByZoom	On
	AF-Zone	Front
	AF-Sense	High
	L/R Set	STD
	Display Info	On
	Image Freeze	Off
	Digital Zoom	Off
	Call Preset Speed	24
	Pre Zoom Speed	5
	▲▼ Select Item	
	◀▶ Change Value	
	[Menu] Back	

**SpeedByZoom:** The depth of field scale switch, optional items: On, Off.

**AF-Zone:** Interested in focusing area, optional items: Front, Top, Center, Bottom.

**AF-Sense:** Automatic focusing sensitivity options, optional items: Low, Normal, High.

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

**Display Info:** Optional items: On, Off.

**Image Freeze:** Optional items: On, Off.

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

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

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

## 5.6. NOISE REDUCTION

Move the main menu cursor to **[NOISE REDUCTION]**, and press **[OK]** key enter the Noise Reduction page, as shown in the following figure.

NOISE REDUCTION		
▶	NR2D-Level1	Off
	NR3D-Level1	8
	▲▼	
	◀▶ Select Item	
	Change Value	
	[Menu] Back	

**NR2D-Level:** 3D noise reduction.

**NR3D-Level:** 3D noise reduction.

**optional items:** Off, 1 ~ 9.

## 5.7. SETUP

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

SETUP		
▶	Language	EN
	Auto HDMI	On
	HDMI FRAME	Feature
	Auto Patrol	Off
	Auto Sleep	On
Other	Auto Inversion	On
	OSD FLip	Off
	USB Mode	BULK
	UVC H264	On
	Auto Sleep	On
	IP Config	DHCP
	Network Info	
	▲▼ Select Item	
	◀▶ Change Value	
	[Menu] Back	

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

**Auto HDMI:** On/Off.

**Video Format (Optional items in Auto HDMI Off mode):** 4KP30\4KP29.97\4KP25, 1080P30\1080P25.

**HDMI FRAME:** Feature/Panarama.

**Auto Patrol:** Off/On (Residence Time: 1-60; Call Pset Speed: 1-24.)

**Auto Sleep Time:** 5-120.

Other:

**Auto Inversion:** On/Off.

**OSD Flip:** On/Off.

**USB Mode:** BULK/ISOC.

**UVC H264:** On/Off.

**Auto Sleep:** On/Off.

**IP Config:** DHCP.

## 5.8. COMMUNICATION SETUP

Move the main menu cursor to **[COMMUNICATION SETUP]**, and press **[OK]** key enter the Communication Setup page, as shown in the following figure.

COMMUNICATION SETUP		
▶	Protocol	VISCA
	V_Address	1
	V_AddrFix	Off
	Net Mode	Serial
	Baudrate	9600
	▲▼ Select Item	
	◀▶ Change Value	
	[Menu] Back	

**Protocol:** Control protocol type, optional items: Auto, VISCA, PELCO-D, PELCO-P.

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

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

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

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

**Net Mode:** Set the serial port network control, optional items: Serial, Paral.

**Baudrate:** Serial port baud rate, optional items: 2400, 4800, 9600, 38400.

## 5.9. RESTORE DEFAULT

Move the main menu cursor to **[RESTORE DEFAULT]**, and press **[OK]** key enter the Restore Default page, as shown in the following figure.

RESTORE DEFAULT	
Restore?	No
◀ ▶ Change Value	
[Home] OK	
[Menu] Back	

**Restore:** Confirm restore factory settings, optional items: Yes, No.

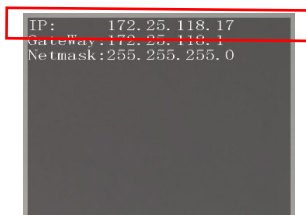
## 6. Web Setting

### 6.1. Visit/Access the Camera

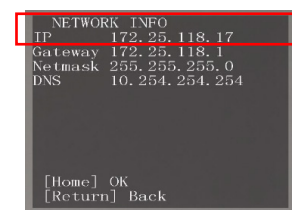
#### 6.1.1. How to Obtain an IP Address

You can find out the IP address in one of the following three ways:

1. The default IP address is 192.168.100.88.
2. Connect the camera to a display via a HDMI cable and then press **[\*]** + **[#]** + **[7]** buttons on the remote control one by one, the IP address will be shown on the screen.

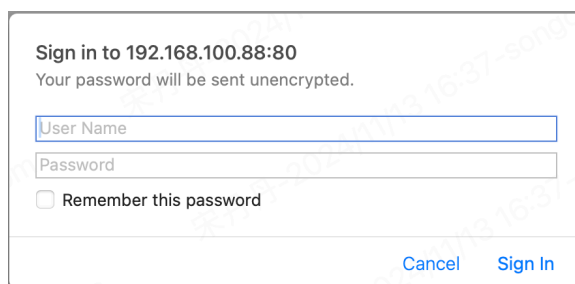


3. Connect the camera to a display via a HDMI cable and then select **[Menu]** → **[Other]** → **[Network Info]** on the remote control, the IP address will be shown on the screen.



#### 6.1.2. How to Access the Camera

1. Enter the IP address obtained via the methods below (it is recommended to use the IE web browser, as other browsers may cause little latency). A login window will pop up.
2. Then input username: **admin**, password: **admin** to login to the homepage of the web server.



#### NOTE

IE browser does not support H5, so you need to visit the VLC website (<http://www.videolan.org/vlc>) to download and install the 32-bit VLC media player. Other mainstream browsers already support H5 and do not need to install the VLC plug-in.

### 6.1.3. How to Modify the IP Address

You can modify the IP address through the web server:

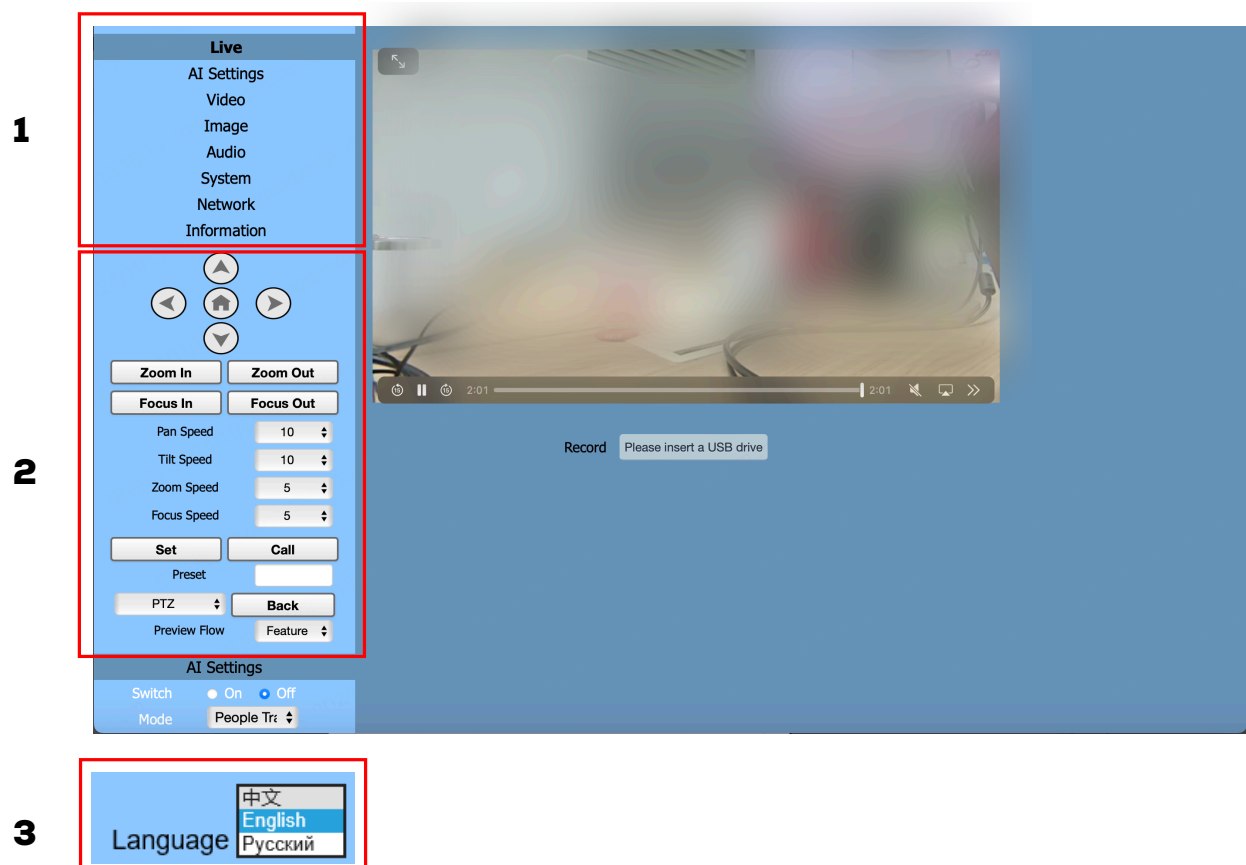
1. Go to **[Network] → [Lan Settings]**.
2. Change the **[IP Configuration Type]** to **[Fixed IP Address]**, and then change the IP address as needed.
3. Restart the device, and the IP address will be updated.

The screenshot displays the MAXHUB web interface. On the left sidebar, the 'Network' menu item is highlighted. The main content area shows the 'Lan Settings' tab. The 'IP Configuration Type' is set to 'Fixed IP Address'. The 'IP Address' field is highlighted with a red box and contains the value '172.25.118.19'. Other fields include 'Subnet Mask' (255.255.255.0), 'Gateway' (172.25.118.1), 'DNS Address' (10.254.254.254), and 'MAC Address' (D4:E0:8E:26:D9:93). The 'Submit' and 'Cancel' buttons are located at the bottom right of the settings area.

## 6.2. Function Introduction

After login in, the homepage will be shown as below:

1. **Parameter Settings:** Live, AI Settings, Video, Image, Audio, System, Network, Information.
2. **PTZ Setup:** Direction control, Preset Setting, etc.
3. **Language Selection:** Chinese, English, Russian.



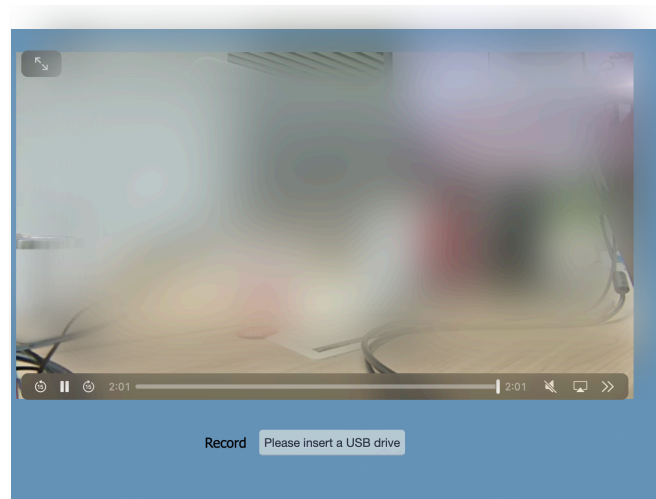
### 6.2.1. Parameter Settings

#### 1. Live

The live window must be the same as video resolution, the higher the resolution, the larger the playing area.

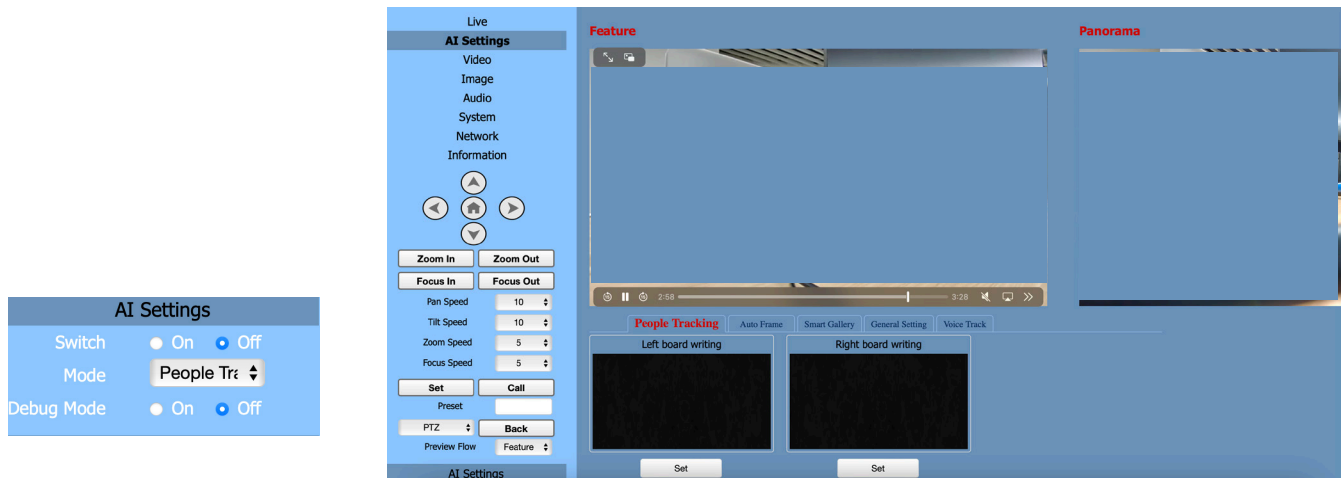
Double click viewing window, will show full-screen, double click again, will return to initialized size.

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.

## 2. AI Settings



You can switch on/off the AI settings and select AI mode as needed:

### (1) Feature

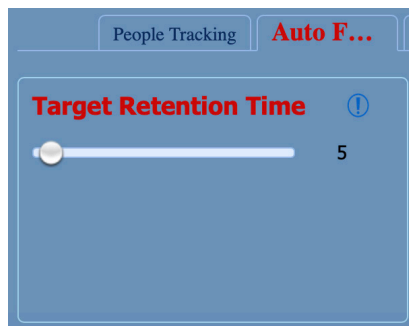
Displays the image captured by the close-up camera.

### (2) Panorama

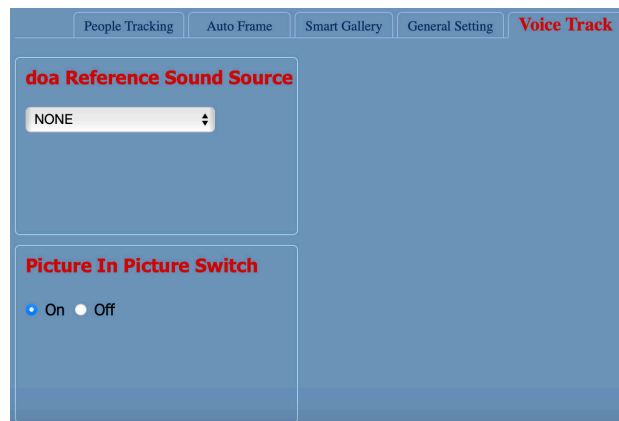
Displays the image captured by the panoramic camera.

### (3) AI Modes

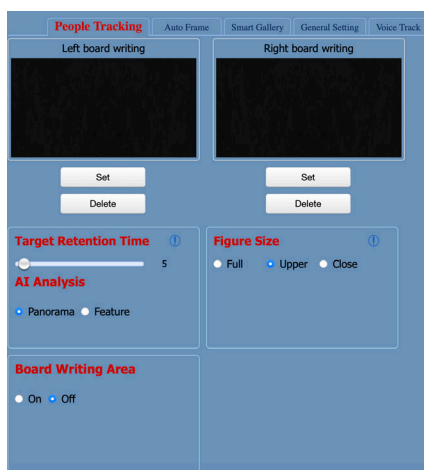
AI mode includes four types: **Auto Framing**, **Voice Tracking**, **People Tracking**, **Smart Gallery**.



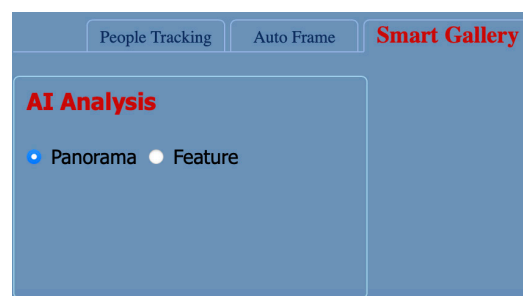
Auto Framing



Voice Tracking



People Tracking



Smart Gallery

### 3. Video Settings

**Video Settings**

Encode Level: mainprofile

**First stream**

Encode Codec: H264

Resolution: 3840x2160

Bit Rate: 16384

Frame Rate: 30 fps

I Key Frame Interval: 30

Bit Rate Control: CBR

**Second stream**

Encode Codec: H264

Resolution: 640x360

Bit Rate: 2048

Frame Rate: 30 fps

I Key Frame Interval: 30

Bit Rate Control: CBR

Submit Cancel

#### (1) Encode Level

Support mainprofile and highprofile two levels.

#### (2) Encode Codec

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

#### (3) 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.

#### (4) 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.

#### (5) 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.

#### (6) I Key Frame Interval

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

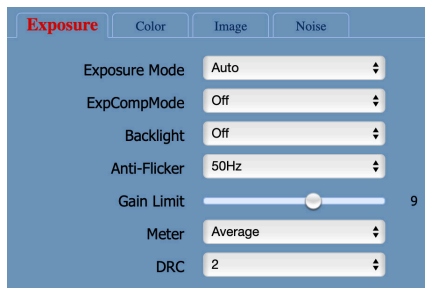
#### (7) Bit Rate Control

Code stream control way:

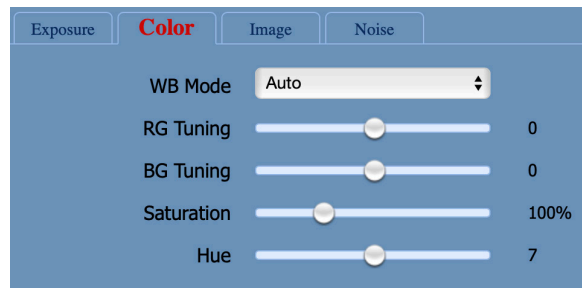
Constant Bit Rate: Video coder will be coding according to preset speed.

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

#### 4. Image Setting



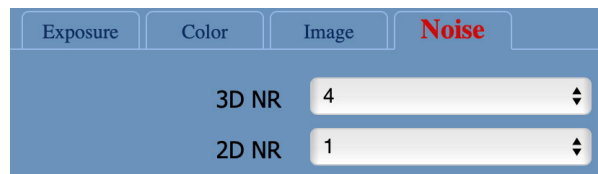
Exposure



Color



Image



Noise

##### Image:

##### (1) Brightness

Image bright 0 ~ 14, slider control, on the right shows the corresponding numerical. Default value is 6.

##### (2) Contrast

Contrast 0 ~ 14, slider control, on the right shows the corresponding numerical. Default value is 9.

##### (3) Sharpness

Sharpness 0 ~ 15, slider control, on the right shows the corresponding numerical. Default value is 3.

##### (4) Flip & Mirror

Tick Flip to realize image upside down, tick mirror to realize image around the mirror. Default value is not tick.

##### (5) B&W-Mode

On/Off.

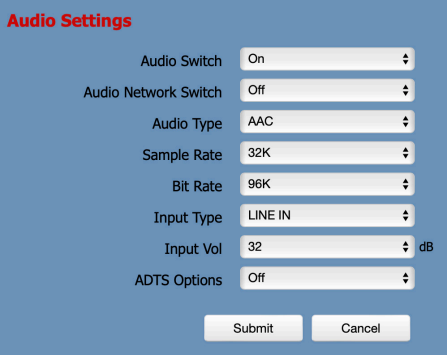
##### (6) Gamma

Default, 0.48, 0.50, 0.56, 0.63, EXT.

##### (7) Style

Norm, Bright, Clarity, Face, Soft, Custom.

## 5. Audio Setting



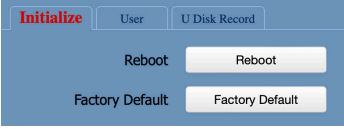
The Audio Settings interface is a blue panel with a title bar. It contains several dropdown menus and two buttons at the bottom. The settings are as follows:

Setting	Value
Audio Switch	On
Audio Network Switch	Off
Audio Type	AAC
Sample Rate	32K
Bit Rate	96K
Input Type	LINE IN
Input Vol	32 dB
ADTS Options	Off

Buttons: Submit, Cancel


- (1) **Audio Switch:** Turn on or off audio switch.
- (2) **Audio Network Switch:** Turn on or off audio network switch.
- (3) **Audio Type:** Audio type AAC, G711A.
- (4) **Sample Rate:** Optional items: 44.1K, 48K.
- (5) **Bit Rate:** Optional items: 96K, 128K.
- (6) **Input Type:** Optional items: LINE IN.
- (7) **Input Vol:** The volume of the channel input.
- (8) **ADTS Options:** On/Off.

## 6. System Setting



The Initialize interface is a blue panel with a title bar. It contains two buttons: Reboot and Factory Default.

Button	Label
Reboot	Reboot
Factory Default	Factory Default



The User interface is a blue panel with a title bar. It contains fields for Username, Password, Guest, and Password, and two buttons: Submit and Cancel.

Field	Value
UserName	admin
Passwd	admin
Guest	guest
Passwd	guest

Buttons: Submit, Cancel



The U Disk Record interface is a blue panel with a title bar. It contains fields for File Format, Packed Time(min), Capacity(M), and Free Space(M), and buttons: Save, Mount, Umount, and Format.

Field	Value
File Format	MP4
Packed Time(min)	15
Capacity(M)	0
Free Space(M)	0

Buttons: Save, Mount, Umount, Format

### (1) Initialize

Reboot and Factory Default.

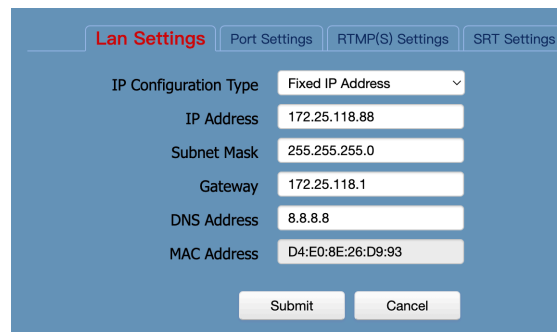
### (2) Username and password

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

### (3) U Disk Record

Record settings

## 7. Network Setting



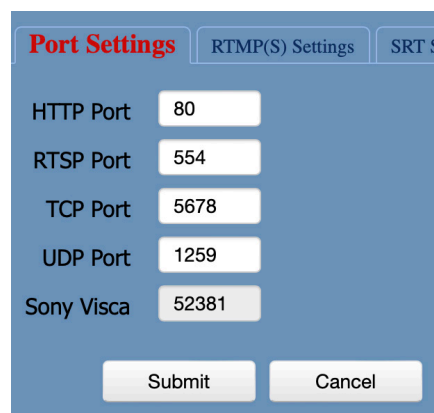
The screenshot shows the 'Lan Settings' window with the following fields and values:

Field	Value
IP Configuration Type	Fixed IP Address
IP Address	172.25.118.88
Subnet Mask	255.255.255.0
Gateway	172.25.118.1
DNS Address	8.8.8.8
MAC Address	D4:E0:8E:26:D9:93

Buttons: Submit, Cancel

### (1) Lan Settings

The default IP address is 192.168.100.88, and the MAC address cannot be modified.



The screenshot shows the 'Port Settings' window with the following fields and values:

Field	Value
HTTP Port	80
RTSP Port	554
TCP Port	5678
UDP Port	1259
Sony Visca	52381

Buttons: Submit, Cancel

### (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 video conference camera support RTSP protocol, use the VLC tools broadcast, default port: 554.

#### C. PTZ 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.

tings Port Settings **RTMP(S) Settings** SRT Settings RTSP 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

Submit Cancel

### (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.

Lan Settings Port Settings RTMP(S) Settings **SRT Settings**

SRT ☐ On ☒ Off

SRT Mode Listener

SRT Server 192.168.100.1

SRT Port 4578

SRT Encryption None

SRT Password 1234564913131

SRT Bandwidth Overhead 25

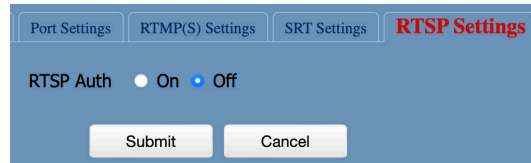
SRT Variable Latency 500

SRT StreamId #!::u=admin

Submit Cancel

### (4) SRT Settings

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



#### (5) RTSP Settings

Turn On/Off the RTSP Auth.

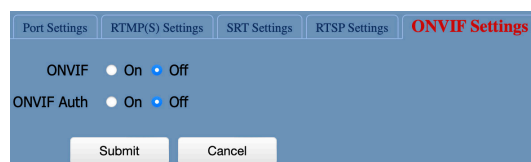
You can turn on the RTSP Auth and enter the **URL** on the host web in the format:

1. On the first stream: **rtsp://xxx/1**.

2. On the second stream: **rtsp://xxx/2**.

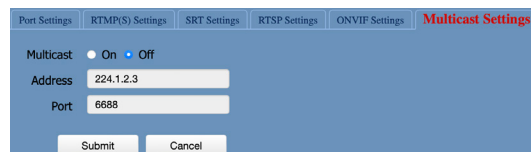
\*xxx indicates the same IP address as the host.

Then the P30 camera view can be displayed on the host device.



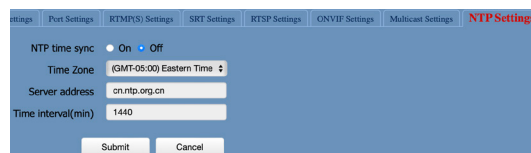
#### (6) ONVIF Settings

Turn On/Off the 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

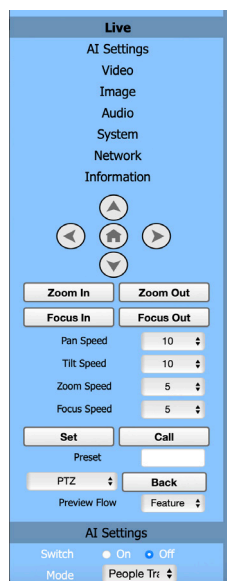
Turn On/Off NTP time sync, main time show and sub time show. Setting NTP server address, time interval, main stream position and sub stream position.

## 8. Information

Display the current device information as below figure.

Information	
Device ID	MAXHUB UC P30
Hardware Type	H8.V
Software Version	SOC v8.1.16 - ARM 6.0.45S
Webware Version	v1.5.6
Serial NO.	VHUCP30001117444S00038
<input type="button" value="Submit"/> <input type="button" value="Cancel"/>	

### 6.2.2. 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 0 ~ 7.

#### (5) PTZ Presets

After manually setting up a preset position, you can save presets for quick recall of these positions.

**Follow the step below:**

1. Type a number between 0 and 254 into the Preset box.
2. Click the "Set" button to save the current position with that preset number.
3. Click the "Call" button, the camera will return to that position.

This enables smooth, quick and convenient control without manually moving the camera.

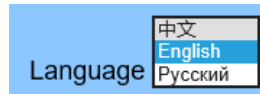
If you set preset 0 as the default position, the camera will automatically move to the default position to display the setup view when it is turned on.

**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.

### 6.2.3. Language Selection

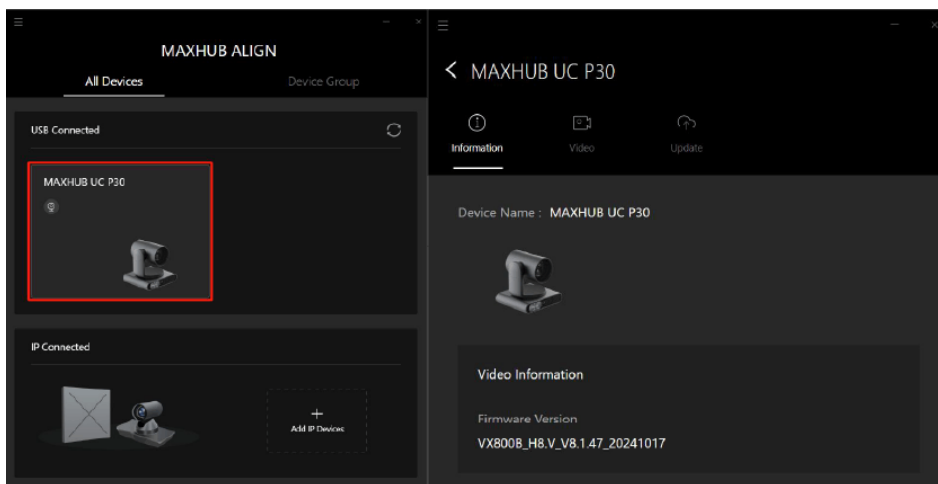


Select the system language of the webpage: Chinese, English, or Russian.

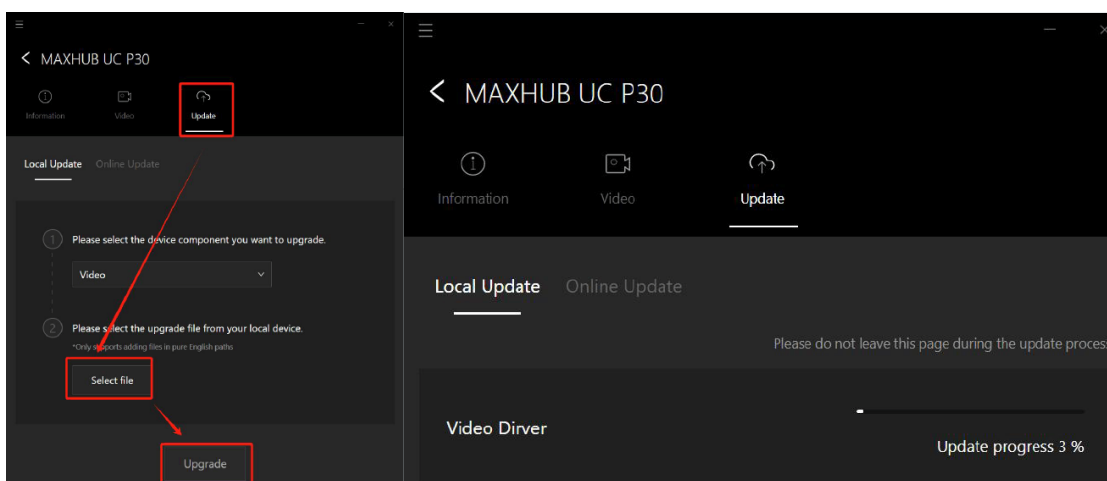
## 6.3. Firmware Upgrade

Follow the steps below to update the firmware version of the UC P30 on the **MAXHUB Align**:

1. Connect the UC P30 to your Windows laptop via a USB cable.
2. Open the MAXHUB Align and go to the UC P30 page.



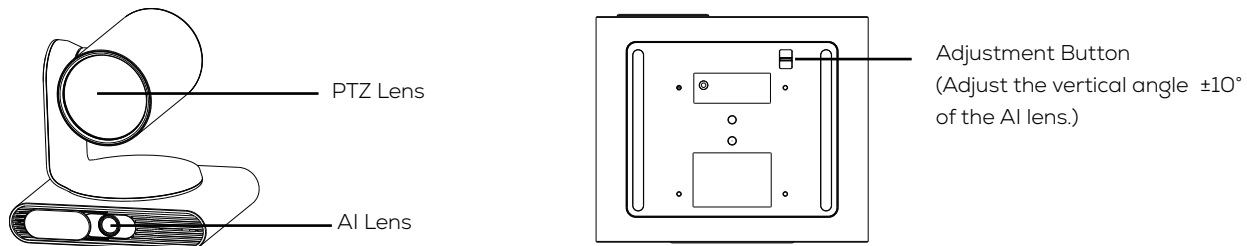
3. Click **Update** → **Select file** → **Upgrade** to begin the update process.



## 7. Camera Calibration

The following situations require camera calibration:

1. Initial setup, after change of installation position or panoramic camera angle, or
2. Deviation in display from expected results in AI mode, such as the portrait not being centered, or the portrait being too high or too low in the PTZ view.



You can adjust the vertical angle of the AI lens by toggling the adjustment button on the bottom of the camera first to get the correct view, and then calibrate the PTZ lens through one of the two methods below.

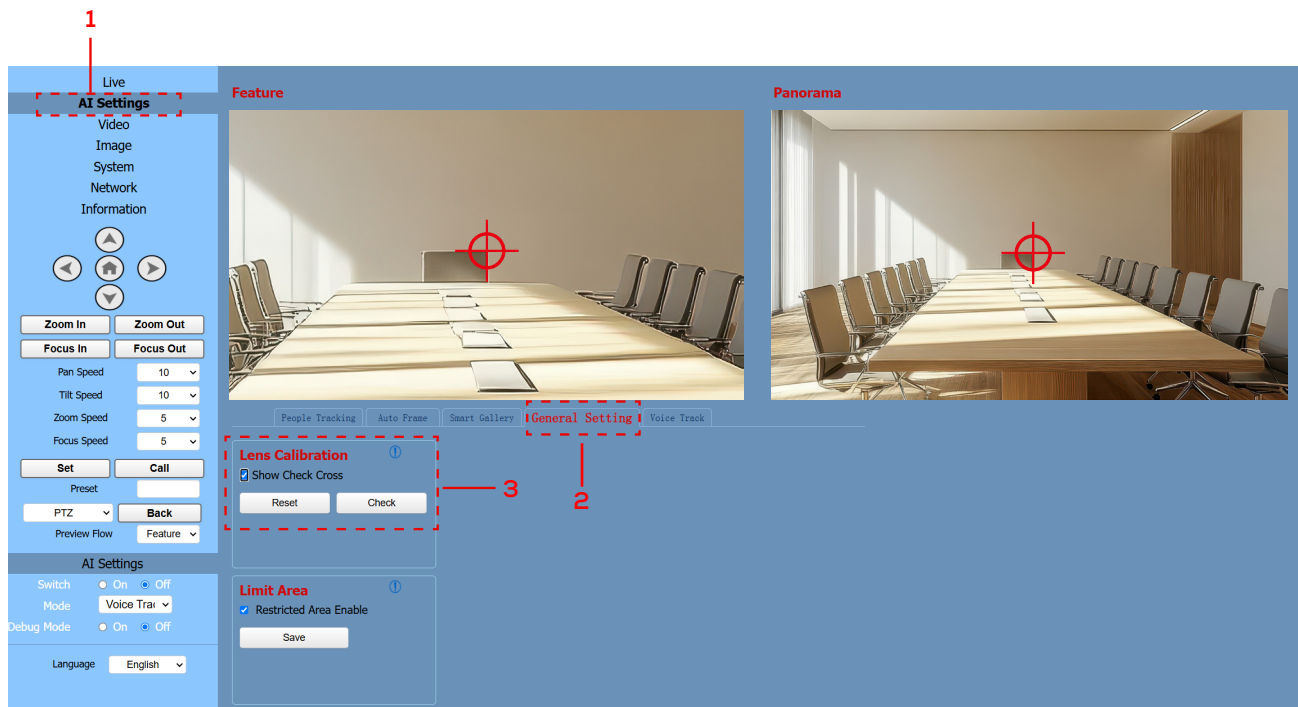
### Method 1: From the remote control.



Monitor

1. Install the camera in the desired position, and place a calibration object (such as a model, book, etc.) approximately 5 meters in front of the camera.
2. Use an **HDMI** or **USB** cable to connect the P30 PTZ camera to the monitor, and open the windows to view the image from the camera.
3. Press the **[Manual Mode]** button on the remote control to switch to manual mode.
4. Sequentially press the remote control buttons **[#] + [\*] + [5]**, and a "Picture-in-Picture" screen will appear.
5. Use the directional buttons on the remote control to adjust the screen position so that the calibration cross on the screen is aligned with that on the object.
6. When the two calibration crosses are aligned, sequentially press the remote control buttons **[#] + [\*] + [6]** to save the setting.
7. A **"Saves, exiting"** prompt will appear, and the calibration is complete.

## Method 2: From the web server side.







1. Go to the Web server side and log in to the homepage.
2. Go to **[AI Settings] → [General Setting]**.
3. In the **Lens Calibration** option, select **[Show Check Cross]**. A calibration crosshair will appear on the feature screen.
4. Use the PTZ control on the left side to align the centre of the calibration cross on the feature screen with the centre of the calibration cross on the panorama screen.
5. When the two calibration crosses are aligned, click **[Check]** in the **[Lens Calibration]** option. A prompt will then appear.
6. Click **[HOME]** to confirm if the calibration was successful.
7. Click **[Reset]**. If the home position is aligned with the calibration position, the calibration is complete.

## 8. AI Tracking Modes

You can select AI mode or manual mode from the remote control for the tracking mode of the camera.

The AI mode includes four types of tracking modes: **Auto Framing**, **Voice Tracking**, **People Tracking**, **Smart Gallery**.

Icon				
Mode	Auto Framing	Voice Tracking	People Tracking	Smart Gallery

### 8.1. Auto Framing

Auto Framing is mainly based on AI detection, which provides real-time detection and position tracking on all faces in the meeting room. The camera can be automatically adjusted based on changes in the number and location of participants.

The wide camera provides a wide view of the meeting room to keep all participants in view, and it enables tele-camera to automatically frame all participants.

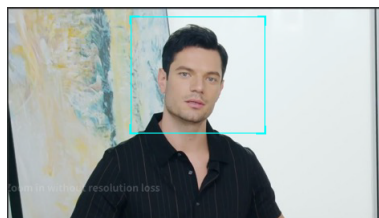
You can select the tracking speed from the remote control.



### 8.2. Voice Tracking

Based on the Auto Framing feature, Voice Tracking can automatically detect the speaking participant and zoom in on his video image for an optimal close-up of the speaker.

The built-in microphone array cannot be used as an audio input source for video conference. It is specially designed for audio tracking.

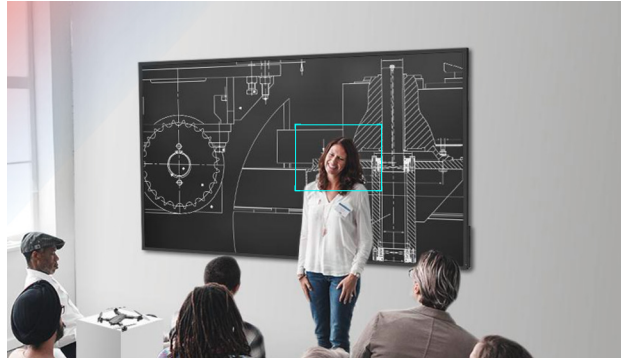


#### NOTE

It is recommended to keep the tracking distance within 6 m (19.69 ft).

### 8.3. People Tracking

People Tracking feature enables the camera to follow a presenter that is moving about on stage. You can select who will be tracking before the mode begins. The tracking stops when the presenter leaves the stage.



### 8.4. Smart Gallery

Smart Gallery, also known as Intelligent Focus, can automatically separates in-room participants into their own individual video tile and captures all participants with a close-up view.



#### CAUTION

In Smart Gallery mode, the single PTZ can frame up to 8 people. Due to the single camera limitation, people standing further away from the camera may appear pixelated as the camera algorithm crops the video stream.

## 9. Maintenance and Troubleshooting

### Camera Maintenance

- If not be used for a long time, please turn off the device, and disconnect AC power cord of AC adaptor to the outlet.
- Make sure to clean the camera cover with soft cloth or tissue.
- Make sure to use the soft dry cloth to clean the lens. If the camera is dirty, please clean it with diluted neuter detergent.
- Do not use any type of solvents, which may damage the surface.

### Unqualified Application

- No shooting extreme bright object for a long time, such as sunlight, light sources, 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.

### Image Troubleshooting

- **The monitor shows no image**
  - 1) Ensure 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 cables of video platform and TV if are correctly connected.
- **The video or image displayed by the camera is shaking.**
  - 1) Check if the camera installation is secure.
  - 2) Check if anything is obstructing the camera lens.
- **No video displayed in browser**

Non-IE browsers and non-IE-based browsers are not supported. It is recommended to use Google Chrome, Firefox, or Edge browsers.
- **Cannot access the camera via browser**
  - 1) Check if the network connection works properly by connecting the PC to the network. Rule out issues such as cable faults or network issues caused by PC viruses. Ensure that the PC and the camera can successfully ping each other.
  - 2) Disconnect the camera from the network and connect it directly to the PC. Reset the camera's IP address if necessary.
  - 3) Check if the camera's IP address, subnet mask, and gateway settings are correct.
  - 4) Ensure there are no conflicts with the MAC address.
  - 5) Check if the Web port has not been changed from the default, which is 80.
- **Forgot IP address or web login password**

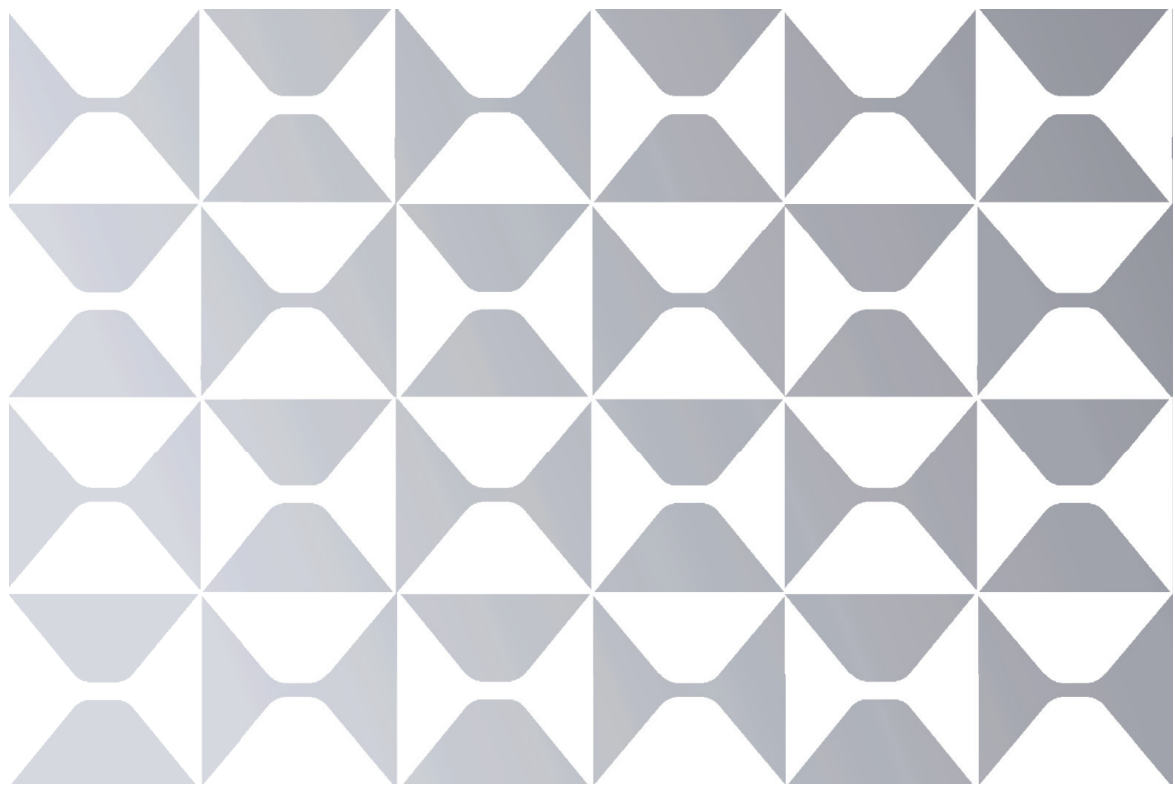
Default Camera IP Address: 2.0.0.8;  
Default Username: admin;  
Default Password: admin.

If you have forgotten the IP address or the web login password for your camera, you can try the default settings provided above to regain access.

### Control

- **Remote control cannot control**
  - 1) 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 is the same.
  - 2) Check whether the control line is connected well.

# MAXHUB



 [www.maxhub.com](http://www.maxhub.com)

 [www.linkedin.com/company/maxhub-official](https://www.linkedin.com/company/maxhub-official)

 [sales@maxhub.com](mailto:sales@maxhub.com)

 [www.facebook.com/MAXHUB.Global/](https://www.facebook.com/MAXHUB.Global/)