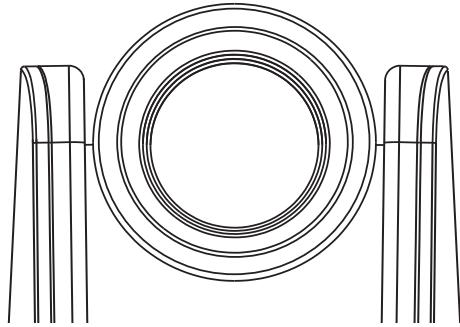


AI Auto Tracking PTZ Camera

User Manual



Version V1.0-05.02.0292

Warranty Certificate

(Please keep this for warranty claims)

User Information

Name: _____ Phone: _____

Email: _____ Postal Code: _____

Address: _____

Product Information

Model: _____

Barcode: _____

Fault Description

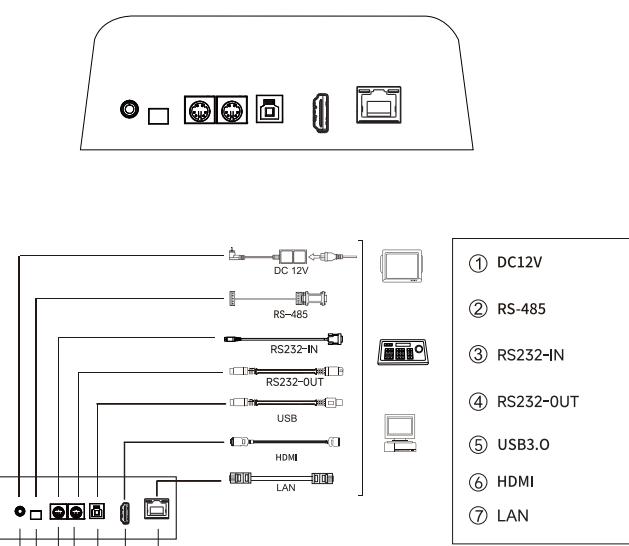
Notes

1. Please fill in your user information accurately and completely to ensure the repaired device can be returned to you promptly.

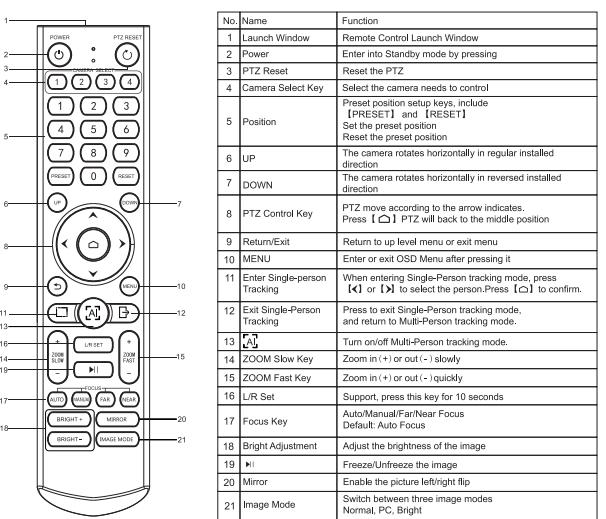
2. Specify the model, barcode, and provide a detailed description of the malfunction.

1. Product Description

1.1 Interfaces



3. Remote Control Button Description



★ Attenions for Remote Control

1. Ensure the remote light to the selected camera is on.
2. If the remote control doesn't work, please replace batteries.
3. The camera number on the remote must match the camera's address.
4. In the [AI] mode, manual zooming is not available. Therefore, when you need to zoom, please make sure the auto tracking is turned off.

5. Common Operation Instructions

5.1 Camera Select

Set the IR remote control's address to control the corresponding camera, option item 1/2/3/4

CAMERA SELECT

1

2

3

4

5.2 Camera Direction Control

- ▲ Turning up
- ▼ Turning down
- ◀ Turning left
- ▶ Turning right
- Turning to default



Note: Press the direction key when you need to adjust the angle.

If you want to move the camera slowly, just click the direction key;

If you want to move the camera fast at a large scale, just long-press the button;

If you want to adjust left and right direction, just press and hold the L/R button for 10S.

5.3 Camera Focusing Mode Control

[AUTO FOCUS] Switch the focus mode to AUTO

[MANUAL FOCUS]

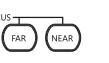
Switch the focus mode to MANUAL

[FAR] Far focus manually

[NEAR]

Near focus manually

[Auto/Manual/Far/Near Focus Default/Auto Focus]



5.4 Camera Zoom Control

Press any one of the 4 [ZOOM] to make the zoom functioning.

These 4 keys are not applicable for fixed focus cameras.



5.5 Preset Setup, Call, Cancel

(1) Reserve Preset: Press [PRESET], then press one of the numbers (0-9) to reserve a preset that corresponds to the NUMBER.

Note: You can setup 10 presets at most by the remote control.

(2) Call Preset: Press the NUMBER (0-9) directly to call the reserved preset.

Note: It won't work if there's no preset reserved in the corresponded number.

(3) Remove Preset: Press [RESET], then press one of the number (0-9) to remove a preset that corresponds to the NUMBER.



5.6 AI Mode

1) Press [AI] button to enter Multi-Person tracking mode and start auto-tracking.

Press [AI] button again to exit Multi-Person tracking mode.

2) While in Multi-Person tracking mode, press [□] button to enter Single-Person tracking mode. In Single-Person tracking mode, a green frame will appear when there are two or more people present. Use the left and right buttons to select the person you want to track, then press [●] button to confirm and begin tracking.

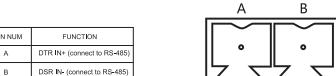
3) Press [●] button to exit Single-Person tracking mode and return to Multi-Person tracking mode.

5.7 RS-232 Interface Distribution



No.	Function	No.	Function
1	DTR	5	RD
3	TXD	7	RI OUT
4	GND	8	NC

5.8 RS-485 Interface Distribution



6. Camera Menu Setup

When operating remote control, press [MENU] to enter main menu of the video camera.

6.1 Level 1 Menu - Main Menu

Main Menu	
→ Exposure	
Color	
Image	
P/T/Z	
Communication	
Tracking	Off
Information	
Restore Default	
Language	English
▲ Select	● Modify
[Home]Enter	[Return]Exit
[Menu]Exit	

Tracking: off/Presenter/Autoframing

Language: Support Chinese/English

Press the [△] button on the Remote to enter level 2 sub-menu

Press the [Menu] button on the Remote to exit menu

6.2 Level 2 Menu - Exposure

Exposure	
→ Mode	Auto
Backlight	Off
ExpComp	00
Flicker	50Hz
[Return]	

Mode: Auto/Manual/Shutter Priority/Iris Priority/Bright Priority

Backlight: On/Off(only effective under Auto mode)

ExpComp: Optional item is -7~+7 (only effective under Auto mode)

Flicker: Support 50Hz/60Hz/Off

When changing the exposure mode to Manual, the sub-menu is as shown below

6.3 Level 2 Menu - Color

Color	
→ Brightness	50
Contrast	50
Hue	50
Saturation	50
Sharpness	50
WB Mode	Auto
Red Tuning	0
Blue Tuning	0
[Return]	

Brightness: Optional item is 0-100

Contrast: Optional item is 0-100

Hue: Optional item is 0-100

Saturation: Optional item is 0-100

Sharpness: Optional item is 0-100

WB mode: Auto/Manual/Color Temp/Indoor/Outdoor/Onepush

When the WB mode is Auto, the Rtuning and Btuning value can be tuning.

The range is 0 to 100.

When the WB mode is Manual, the sub-menu will be as shown below:

Color	
→ Brightness	50
Contrast	50
Hue	50
Saturation	50
Sharpness	50
WB Mode	Manual
Red Gain	50
Blue Gain	50
[Return]	

Notes: In AI tracking mode, the camera cannot be panned or tilted manually.

6.4 Level 2 Menu-Image

Image	
→ Mirror	Off
Flip	Off
Video Format	4K30
Menu Direction	0
UVC Format	YUY2
Style	Normal
HDMI Mode	Auto
[Return]	

Mirror:Enable/disable the picture left/right flip
Flip:Enable/disable the picture up/down flip
Video Format:

Video Format	
→ 4K30	1080p30
4K29.97	1080p29.97
4K25	1080p25
2K60	720p60
1080p60	720p59.94
1080p59.94	720p50
1080p50	
[Return]	

Menu Mirror: 0°/90°/180°/270°
UVC Format: YUY2/MJPEG

Style: Normal/PC/Bright
HDMI Mode: Auto/Force

6.5 Level 2 Menu- P/T/Z

PTZ	
→ Acc Curve	Middle
L/R Set	Off
Digital Zoom	Off
Zoom Speed	7
Focus Zone	Center
Focus Sense	Normal
Focus Scene	Normal
[Return]	

Acc Curve: Fast/Middle/Slow
L/R SET: On/Off
Digital Zoom: Off/X2/X4/X8
Zoom Speed: Optional items are 1-8
Focus Zone: Center/Bottom/Front/Left/Right/All/Top
Focus Sense: Normal/Low/High
Focus Scene: Normal/Macro

6.6 Level 2 Menu - Communication

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

Protocol: Option items are Auto/Visca/PELCO-D/PELCO-P

Baudrate: Option items are 2400/4800/9600/38400

RC Address: Set the IR remote control's address to control the corresponding camera.

Option items are ALL/1/2/3/4.

Address: Set the camera's address. Option items are 1-7 in Visca, 0-255 in PELCO-D, 0-31 in PELCO-P.

Visca Ack: On/Off

6.7 Level 2 Menu -Tracking

Tracking Mode: off/Presenter/Auto Framing

1.Select "Auto Framing " under "Tracking" in the "Menu", then exit the menu to activate Auto Framing Tracking Mode.

2.Presenter Tracking Mode: Select "Presenter" under "Tracking" in the "Menu", then exit the menu to activate Presenter Tracking Mode. Use the "Left/Right buttons" to select the target person, then press the **【△】** to confirm and start tracking.

3.Disable Tracking: Select "Off" in the "Menu" to deactivate the current tracking mode.

Menu	
Exposure	
Color	
Image	
PTZ	
Communication	OFF
→ Tracking	
Information	
Restore Default	
Language	English
[Return]	

7.1 Equipment Installation
Connect the camera to either a PC's external network port via Ethernet cable, or an Internet network through a router/switch. Access the camera's web interface by entering its IP address in a web browser (default IP varies by model- refer to the label at bottom of the camera).

To access a camera's web interface, its IP address subnet must match the computer's. If they don't, you won't be able to log in. Here are two ways to make sure the subnets are consistent:

Method 1: Use an IP Search Tool

An IP search tool can automatically scan your local network for all connected cameras and list their current IP addresses. You can then use this tool to change the camera's IP subnet to match your computer's. For detailed installation and operation instructions, refer to the "IP Search Tool User Guide."

Method 2: Add the Camera's Subnet to Your Computer

Your computer can be configured to use an additional IP subnet. For example, if the camera's default IP address is 192.168.0.206, you'll need to add the 0 subnet to your computer's network settings.

7.2 Configure Computer IP to Match Camera's Network

Purpose: Ensure computer and camera are on the same subnet for communication.

1) Open Network Adapter Settings

Right-click your active connection → Select Properties

2) Configure IPv4 Settings

From the list, double-click: "Internet Protocol Version 4 (TCP/IPv4)" (or select it and click Properties)

3) Add IP Address Manually

Select:
Use the following IP address

Enter:
IP Address: 192.168.0.xxx (e.g., 192.168.0.245)

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.0.xxx (typically your router's IP, e.g., 192.168.0.1 or 192.168.0.254)

4) Finalize Changes

Click OK to close all configuration windows

Changes take effect immediately

7.3 Modify Camera's IP to Match Local Network
Purpose: Integrate camera into your existing network.

6.8 Level 2 Menu -Information

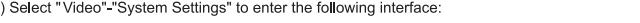
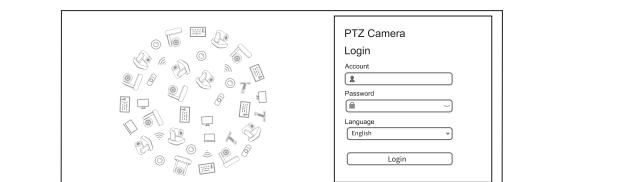
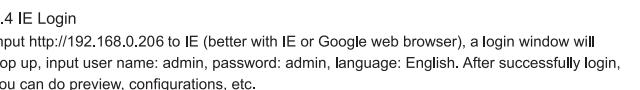
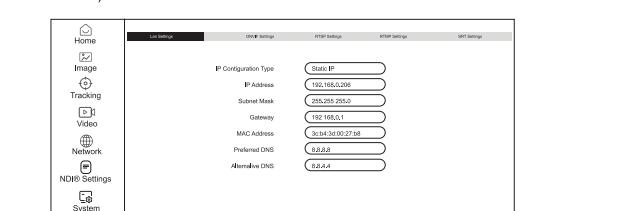
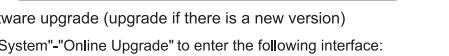
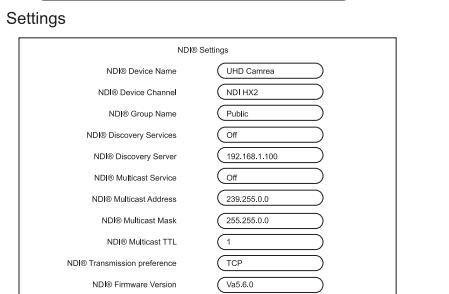
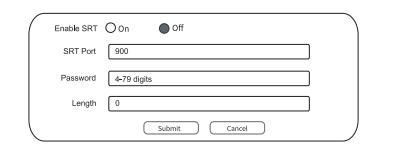
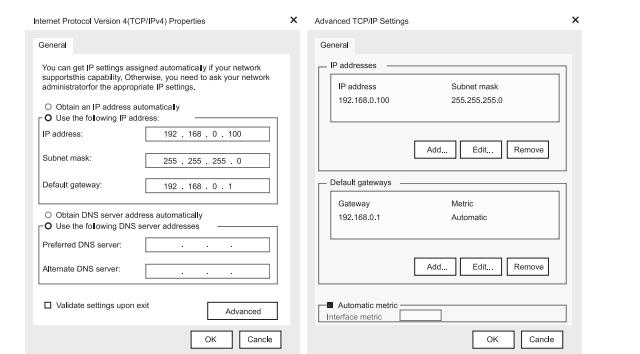
Information	
→ Device Type	UHD Camera
PTZ Version	V1.0.2.1
HW Version	V1.0
SOC Version	V0.0.08
AF Version	V4.26
IQ Version	V1.01.003
IP Address	192.168.0.206
[Return]	

Notice: The version number here is just an example. The actual parameters shall prevail.

6.9 Level 2 Menu - Restore Default	
→ Yes	
No	
[Return]	

6.10 Level 2 Menu -Language

English / 中文



1) Open the upgrade file to Upgrade automatically if needed.

2) Restart the camera and prompts "Upgrade succeeded". Log in to the network and check whether the software version is consistent with the upgrade file to ensure that the upgrading is successful. Then click "Restore factory default" to restart and restore the parameters to the factory default setting. (IP default 192.168.0.206, User default: admin, password default: admin)

7.8 VISCA over IP

VISCA Protocol is transmitted through IP to reduce RS232/RS485 cabling(the controller must support IP communication)

Communication Port Specification:

Control Port: RJ45

IP Protocol: IPv4

Transmission Protocol: Sony VISCA;

IP address: Setting through the web

Port address: Sony VISCA(52381)

Application Range: Under the same network segment

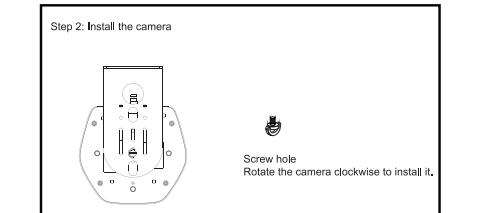
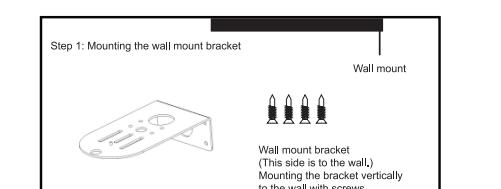
8. Installation Instructions

8.1 Surface Installation

Put the camera on the desk flatly, and make sure the camera is in a horizontal position. If you want to put the camera on an oblique surface, please make sure the angle of inclination is less than 15 degrees to ensure the camera pan and tilt work in normal operation.



8.2 Wall Mount Installation



9. Trouble Shooting

Before requesting service from our engineers, please try the following troubleshooting methods. If the issue still cannot be resolved, please contact us for further assistance.

Q: The video of the camera cannot be displayed on the screen.
A: Please check the connections between the power cable, video cable, camera, and monitor, and make sure both ends of each connector are securely fastened.

Q: Why is there no image when connecting HDMI cable to TV?
A: Because the TV resolution does not match the camera resolution. Please connect the camera to the computer via USB to retrieve the image first, and then use the remote control to adjust the camera's resolution and frame rate to match your devices.

Q: It's unable to Pan, Tilt and Zoom camera.
A: Because the camera is in tracking mode or the menu was displayed on monitor. Please re-operate after exiting the tracking mode and the menu.

Q: Why the camera rotates for about 10 seconds after power on?
A: This is the normal self-test of the camera.

Q: Poor Image quality while using in church or other low-light conditions.
A: Change the picture setting in the menu from automatic to manual, and set the corresponding parameters to adjust the image quality.

Q: Remote control is not working or insensitive.
A: ① Not work, please replace batteries.

② Not sensitive: Choose the correct "IR select" number to correspond to the camera. Control the camera within 10m(32.8ft). Remove the obstacles. Aim at the sensor which is in front of the camera when controlling it.

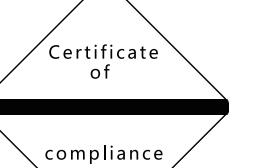
Q: USB interface is not identifiable.
A: Please check if the USB cable and extension cable are well connected or not. If yes, change to another USB interface and try to connect again.

Q: It won't be controlled via RS-232/RS-485 when camera connect to PC.
A: Make sure it is a correct connection between the camera and PC. (Reference to RS-485 and RS-232 Pins distribution).

Q: Why no ceiling mount bracket?
A: Camera comes with wall mount bracket. Ceiling mount or tripod brackets need to buy separately.

Q: Does this camera have built-in mic?
A: No, this camera comes with no built-in mic.

Q: Can we control the camera only by the remote control?
A: You can control the camera by remote control, joystick keyboard controller, and software.



材质:100g书纸, 黑白双面印刷

尺寸: 说明书大小 495*297(w*h)左右4折5页再对折
折叠后 99*148.5mm(w*h)