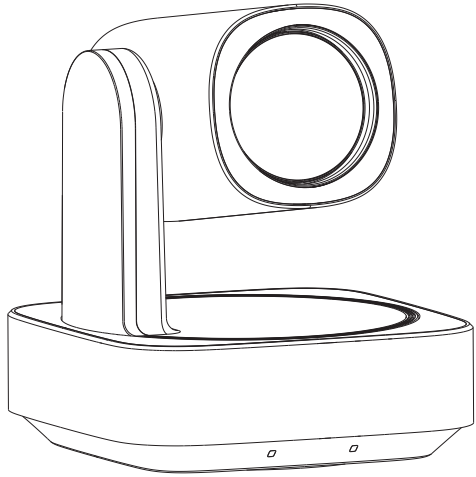


AI Auto Tracking PTZ Camera

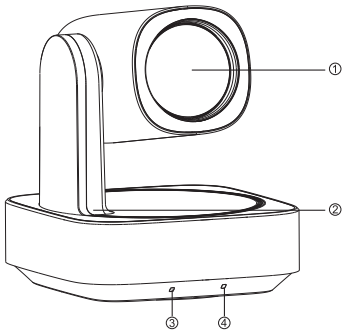
User Manual



Version V2.0-05.02.0311

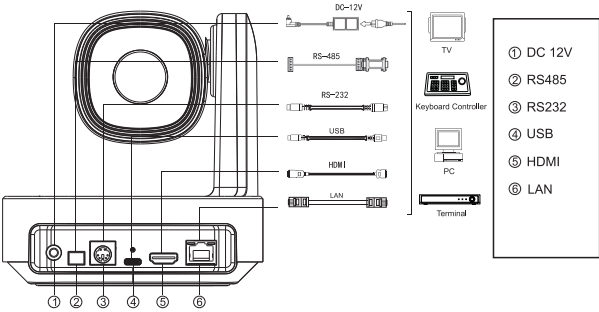
1. Product Description

1.1 Front



- ① Lens
- ② Pan&Tilt
- ③ Standby
- ④ Power

1.2 Back



3. Remote Control Button Description

No	Name	Function
1	Launch Window	Remote Control Launch Window
2	Power	Enter into Standby mode by pressing
3	PTZ Reset	Reset the PTZ
4	Camera Select Key	Select the camera need to control
5	Position	Preset position setup keys, include 【PRESET】 and 【RESET】 Set the preset position Reset the preset position
6	UP	The camera rotates horizontally in regular installed direction
7	DOWN	The camera rotates horizontally in reversed installed direction
8	PTZ Control Key	PTZ move according to the arrow indicates. Press 【C】 PTZ will back to the middle position
9	Return/Exit	Return to up level menu or exit menu
10	MENU	Enter or exit OSD Menu after pressed it
11	Enter Single Object Tracking	When entering single object tracking mode, press the PTZ Control Keys to select the object. Press C to confirm.
12	Exit Single Object Tracking	Press to exit single object tracking mode, and return to Autoframing mode
13	Auto	Turn on/off Autoframing mode
14	ZOOM Slow Key	Zoom in + or out - slowly
15	ZOOM Fast Key	Zoom in + or out - quickly
16	L/R Set	Support, press this key for 10 seconds
17	Focus Key	Auto/Manual/Far/Near Focus Default: Auto Focus
18	Bright Adjustment	Adjust the brightness of the image
19	Freeze/Unfreeze the image	
20	Mirror	Enable the picture left/right flip
21	Image Mode	Switch between three image modes Normal, PC, Bright

★Attentions for Remote Control

- Please check whether the indicator corresponding to the camera selection area is on or not.
- If the remote control doesn't work, please replace batteries.
- Make sure the Number keys on the camera selection area are consistent with the remote control address in the menu.

4.3 Level 2 Menu - Color

Color	
→ Brightness	50
Contrast	50
Hue	50
Saturation	50
Sharpness	50
WB Mode	Auto
Rtuning	00
Btuning	00
[Return]	

Brightness: Optional item is 0-99
Contrast: Optional item is 0-99
Hue: Optional item is 0-99
Saturation: Optional item is 0-99
Sharpness: Optional item is 0-99
WB mode: Auto/Manual/VAR/Indoor/Outdoor/Onepush
When the WB mode is Auto, the Rtuning and Btuning value can be tuning.
The range is 0 to 99.

4.4 Level 2 Menu-Image

Image	
→ Flip	Off/On
Mirror	Off/On
Video Format	1080P60
Menu Mirror	Off/On
USB Mode	ISOC/BULK
UVC Format	YUY2/MJPG
Style	Normal/PC/Bright
HDMI Mode	Force/Auto
[Return]	

Flip: Enable/disable the picture up/down flip
Mirror: Enable/disable the picture left/right flip
Video Format: 4K30(Only available for 4K PTZ Camera)/1080P60/1080P50/1080P30/1080P25/720P60/720P50
Menu Mirror:Off/On
USB Mode: ISOC/BULK
USB mode: Adjust between Isochronous transfers mode and Bulk transfers mode
UVC Format: YUY2/MJPG
Style Mode: Normal, PC, Bright
HDMI Mode: Force/Auto

4.5 Level 2 Menu- P/T/Z

P/T/Z	
→ Acc Curve	Fast/Middle/Slow
L/R SET	On/off
ZOOM Speed	6
AF Zone	Bottom
AF Sense	Low
AF Scene	Normal
[Return]	

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

4.6 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

4.7 Level 2 Menu -Information

Information	
Model	UHD Camera
PTZ Version	1.0.1.1
SOC Version	1.1.134
→ AF Version	1.22
IQ Version	3.02.001
HW Version	1.2
IP	192.168.0.206
[Return]	

Model: UHD Camera (FHD for 1080P Camera and UHD for 4K Camera)
PTZ Version:1.0.1.1
SOC Version: 1.1.32
AF Version:1.0.1
IQ Version:3.02.001
HW Version:1.2
Notice: The version number here is just an example. The actual parameters shall prevail.

4.8 Level 2 Menu - Restore Default

Restore Default	
→ Yes	
No	
[Return]	

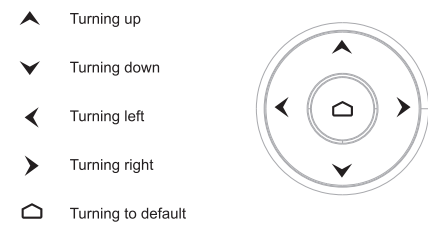
5. Common Operation Instructions

5.1 Camera Select

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



5.2 Camera Direction Control



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.

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



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 correspond to the NUMBER.

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

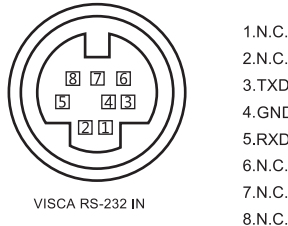
(2) Call Preset: Press the NUMBER (0-9) directly to call the reserved preset.

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.

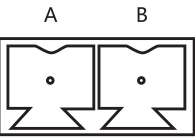


5.6 RS-232 Interface Distribution



5.7 RS-485 Interface Distribution

PIN NUM	FUNCTION
A	DTR IN+ (connect to RS-485)
B	DSR IN-(connect to RS-485)



6. AI Tracking Setting from Web page



6.1 Tracking Settings

- Tracking: Switch to enable/disable AI tracking.
- Mode: Drop-down selection between Autoframing mode or Presenter tracking mode.

6.2 PTZ Control

PTZ control serves two purposes:

- Before entering a mode: Adjust the camera's orientation to align with the target.
- In Presenter tracking mode: Use left/right clicks to switch between detectable targets. Press the [Home] button to confirm the selected tracking target.

6.3 PresenterTracking Settings

- Auto Zoom & Auto Tilt (Enabled by default, recommended): When Auto Zoom is disabled, the camera stops automatic zooming in/out. When Auto Tilt is disabled, the camera stops vertical movement.
- Timeout Duration: Sets how many minutes the camera waits before exiting AI tracking after losing the target. Default: 5 minutes.
- Tracking Starting Position: Options: Current position / Preset position X / Home position. Default: Current position.
Note: In AI tracking mode, the camera cannot be panned or tilted manually.

Warranty Card

Thank you so much for choosing our products.

User's Info

Name: _____ Tel: _____

Email: _____ Post Code: _____

Address: _____

Product's Info

Product Name: _____

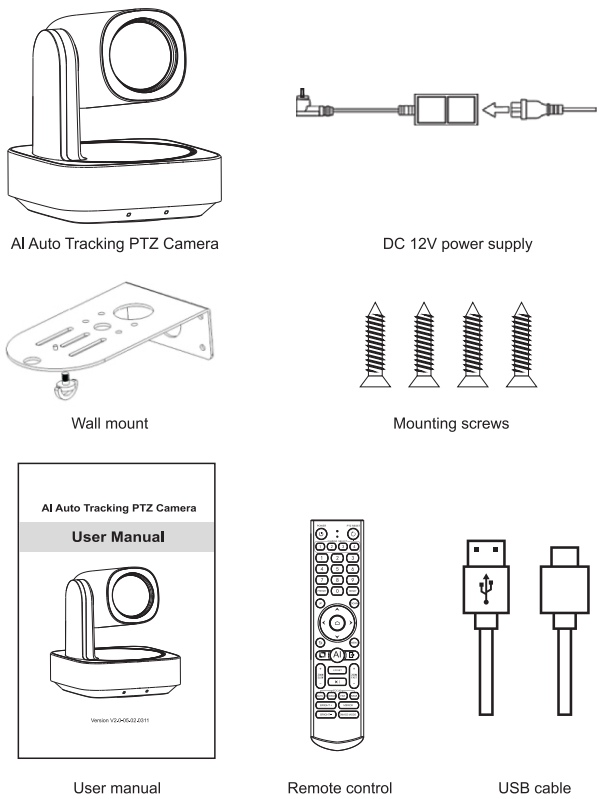
Factory Serial Number: _____

Fault Description

Attention

- This card is considered as the protection to fix warranty, so please reserve it carefully. Please fill in truthfully.
- Please indicate the model number, factory serial number and the detailed description of the fault information.

2. Packing List



4. Camera Menu Setup

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

4.1 Level 1 Menu - Main Menu

Main Menu	
→ Exposure	
Color	
Image	
P/T/Z	
Communication	Off
Information	
Restore Default	
Language	English
[Home]	Enter
[Menu]	Back

Tracking: off/Presenter/Autoframing

Language: Support Chinese/English

Press the 【C】 button on the Remote to enter level 2 sub-menu

Press the 【Menu】 button on the Remote to exit menu

4.2 Level 2 Menu - Exposure

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

Mode: Auto/Manual/SAE/AE/Bright

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

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

Flicker: Support 50HZ/60HZ

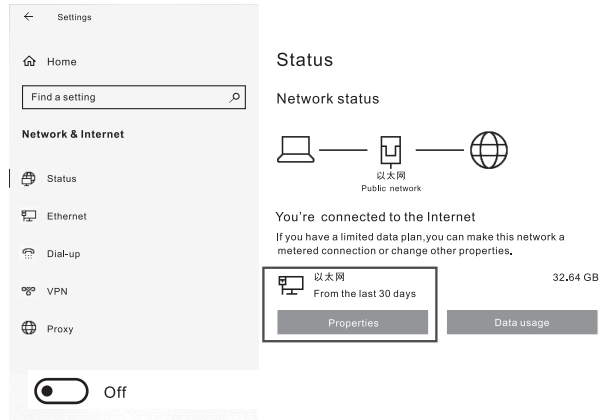
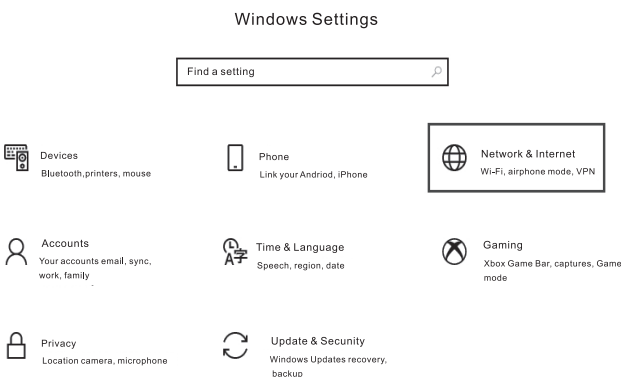
7. Network Function

7.1 Equipment installation

Connect HD video camera to your internet or your PC via network cable, or connect by Switch/Router.

You can log into the camera's web interface with the default or modified IP. The default IP address of the camera is 192.168.0.206.

7.1.1 How to query the IP address of your PC (Note the text in the box)



If you set a data limit, Windows will set the metered connection setting for you to help you stay under your limit.

Set a data limit to help control data usage on this network

IP settings

IP assignment: Automatic (DHCP)

Edit

Properties

Link speed (Receive/Transmit): 1000/1000 (Mbps)
Link-local IPv6 address: fe80::b1b8:1f9a:3e4d:4899%3
IPv4 address: 192.168.110.73
IPv4 DNS servers: 192.168.110.1
Primary DNS suffix: lan
Manufacturer: Realtek

7.2 How to add networking:

7.2.1 Open the computer network local connection attribute window

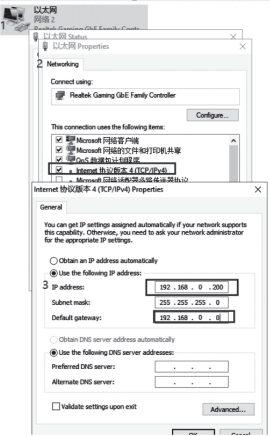
select "Internet Protocol Version 4 (TCP/IPv4)";

7.2.2 Double-or-right-click "Internet Protocol Version 4 (TCP/IPv4)";

7.2.3 Enter the "Internet Protocol Version 4 (TCP/IPv4)" window.

7.2.4 Change the computer's IP to 192.168.0.73, ensuring that both the computer and the camera are in the same network segment.

P.S. Failure to add the correct network segment may result in login failure. The default IP address of the camera is 192.168.0.206. It's necessary to add the "1" network segment to the computer. Ensure the assigned IP address does not conflict with other devices on the network. Verify the IP address's availability before assigning it.



7.4.1 Select "Network" - "Lan Settings" to enter the

following interface:

IP Configuration Type	Static IP
IP Address:	192.068.110.205
Subnet Mask:	255.255.255.0
Gateway:	192.168.110.254
MAC Address:	80:0d:ed:5c:30:05
Preferred DNS	192.168.110.7
Alternative DNS	192.168.110.8

7.4.1.1 Change the camera IP address to: 192.168.110.205

7.4.1.2 Default Gateway: 192.168.110.254

7.4.1.3 Alternate DNS: 192.168.110.7

7.4.1.4 Preferred DNS: 192.168.110.8

7.4.2 Return PC's IP to the original IP address, and select Obtain an IP address automatically

Internet(TCP/IPv4) Properties
General
Obtain an IP address automatically
Obtain DNS server address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Preferred DNS server:
Alternate DNS server:
Validate settings upon exit

Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Sub-Stream:
Validate settings upon exit

7.5 Video streaming

7.5.1Select "Video" - "System Settings" to enter the

following interface:

Mainstream	Sub-stream
Video Coding: H264	Video Coding: H264
Encode Type: MainProfile	Encode Type: MainProfile
Resolution: 1280x720	Resolution: 1280x720
Bitrate Type: CBR	Bitrate Type: CBR
GOP: 30	GOP: 30
Bit Rate: 1024	Bit Rate: 1024
Frame rate: 30	Frame rate: 30
Color: 35	Color: 35

7.5.2 RTSP video streaming

Select "Network"- "RTSP Settings"to enter following interface:

Identify Authentication	On	Off
Port	554	
One-Stream	One-streamrtsp://192.168.110.205:554/live/av0	
Sub-Stream	Sub-streamrtsp://192.168.110.205:554/live/av1	

Configure parameters according to the network environment.

If the camera modified IP address is 192.168.110.205, then the way to get RTSP video streaming as below:

Default RTSP main streaming address:

rtsp://192.168.110.205:554/live/av0 (av0 Main)

Default RTSP sub streaming address:

rtsp://192.168.110.205:554/live/av1 (av1 Sub)

7.5.3 RTMP video streaming

Select "Network" - "RTMP Settings" to enter follwing interface:

Enable RTMP	On	Off
Main-Stream		
Sub-Stream		

Enable and turn on the RTMP video stream to the server

Server URL: server address, which can be domain name or IP address

Streaming code: Persistent Stream Key/Name

7.6 Software upgrade (upgrade if there is a new version)

Note: Please contact sales or after-sales service to obtain new firmware. Incompatible firmware will damage the camera, so please do not upgrade at will.

7.6.1 Select "System"—"Online Upgrade" to enter the following interface:

Select the upgrade file
Submit

7.6.1.1 Open upgrade file to Upgrade automatically if needed.

7.6.1.2 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)

7.7 VISCA over IP

VISCA protocol is transmitted over IP to reduce the trouble of RS232/RS485 wiring(controller must support IP communication function)

Communication port specifications:

Control port: RJ45

IP protocol: IPv4

Transport protocol: UDP

IP address: set through the web

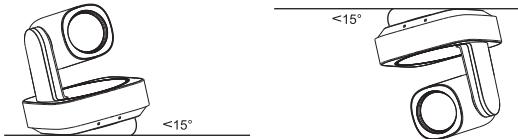
Port address: 52381

Scope of application: the same network segment

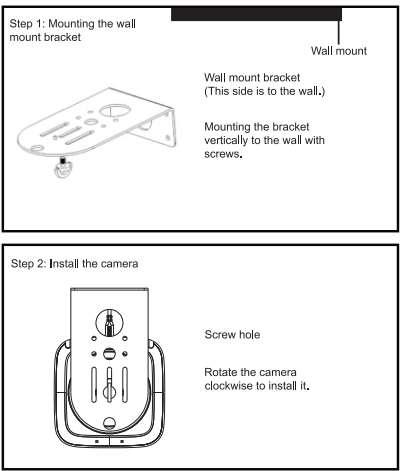
8. Installation Instructions

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 to service engineer, please refer to the following methods to remove failures. If the failures still can't be solved, please contact us for assistance.

Q: The video of the camera cannot be displayed on the screen.

A: Please check the connection between power cable, video cable, camera and monitor, fix the connector on each end.

Q: It's unable to Pan, Tilt and Zoom camera.

A: Because the menu was displayed on monitor. Please re-operate after exiting 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: Press menu (ON/OFF) to adjust backlight effect to suit the church lighting properly.

Q: Remote control is not working or insensitive.

A: Not work, please replace batteries.

Q: ②Not 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 on page 10).

Q: Why no ceiling mount bracket?

A: Camera comes with wall mount. 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?

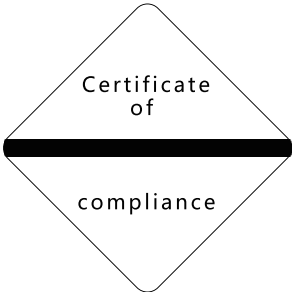
A: You can control the camera by remote control, keyboard controller (joystick), and software.

10. Maintenance Services

All products purchased from our company are guaranteed to keep in good repair for 36 months. If there are any quality problems during the guarantee period, we will maintain them for free.

Under any of the following warranties, related maintenance costs will be collected:

1. Product was not normally used.
2. Fire, electric shock, outside object collapse or other natural disasters causing the equipment damaged.
3. Unauthorized repair, misuse, abuse or change.



材质：100g 书纸，双面黑白印刷

尺寸：展开前说明书大小 594*297 (wh) 左右5 折 6页再对折
折叠后 99*148.5mm(wh)