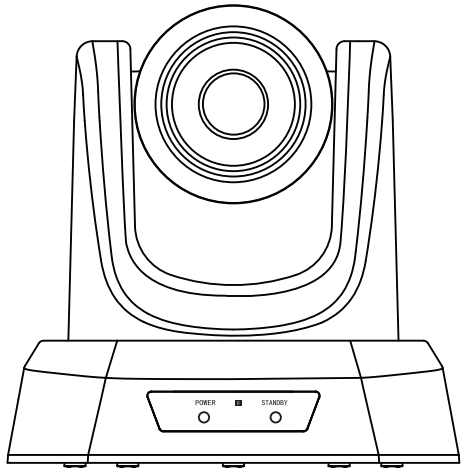


AI Auto Tracking PTZ Camera

User Manual



Version V2.0-05.02.0327

(Children are advised to use this product under adult supervision.)

Warranty Certificate

(Please keep this for warranty claims)

User Information

Name: _____ Phone: _____

Email: _____ Postal Code: _____

Address: _____

Product Information

Model: _____

Barcode: _____

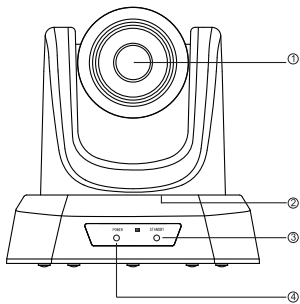
Fault Description

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.

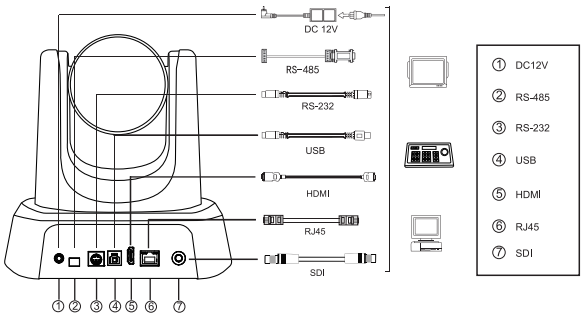
1. Product Description

1.1Front

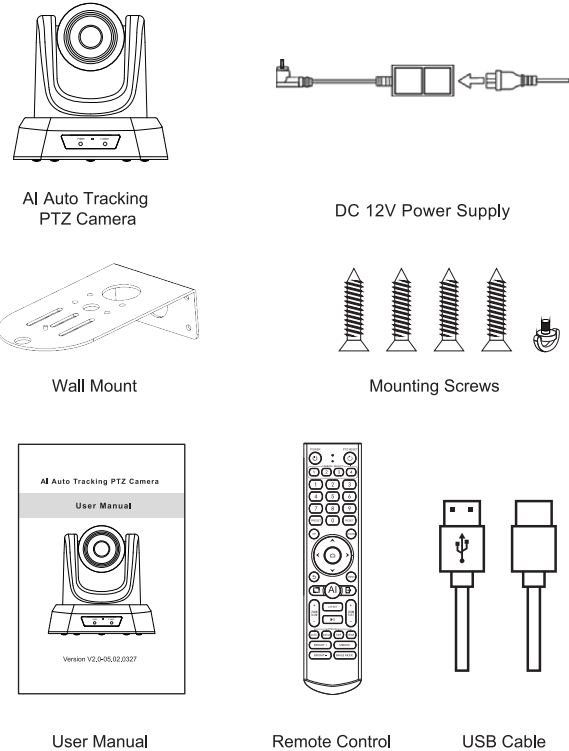


- ① Lens
- ② Pan & Tilt
- ③ Standby
- ④ Power

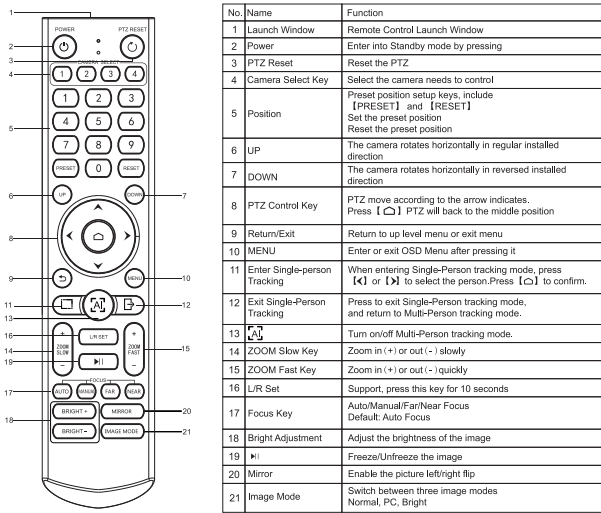
1.2Back



2. Packing List



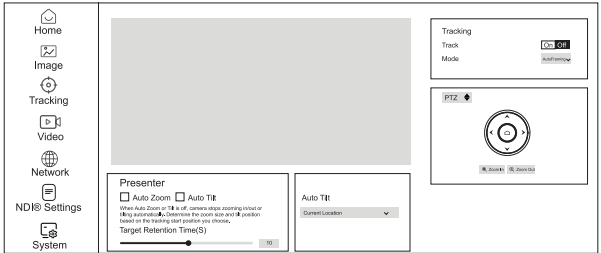
3. Remote Control Button Description



★ Attentions 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.

4. AI Tracking Setting from WebUI



4.1 Tracking Settings

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

4.2 PTZ Control

PTZ control serves two purposes:

- (1)Before entering a mode: Adjust the camera's orientation to align with the target.

- (2)In Presenter tracking mode:

Use left/right clicks to switch between detectable targets.

Press the [Home] button to confirm the selected tracking target.

4.3 PresenterTracking Settings

- (1)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.

- (2)Timeout Duration:

Sets how many minutes the camera waits before exiting AI tracking after losing the target.

Default: 5 minutes.

- (3)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.

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

- ▲ 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



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.

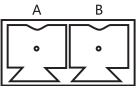
5.7 RS-232 Interface Distribution



No.	Function	No.	Function
1	DTX	5	SD
2	SD	6	SD
3	TXD	7	IR OUT
4	SD	8	NO

5.8RS-485 Interface Distribution

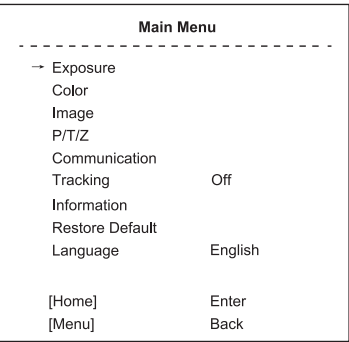
Pin No.	FUNCTION
A	DTX (Pin connected to RS-485)
B	SDR (Pin connected to RS-485)



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



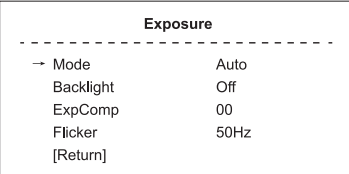
Tracking: off/Presenter/Autoframing

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



Mode: Auto/Manual/SAE/AAE/Bright

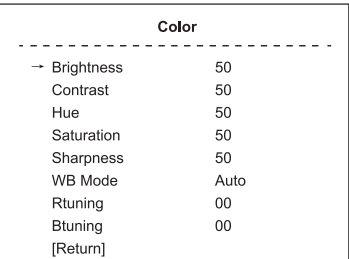
Backlight: On/Off(only effective under Auto mode)

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

Flicker: Support 50HZ/60HZ

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

6.3 Level 2 Menu - Color



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

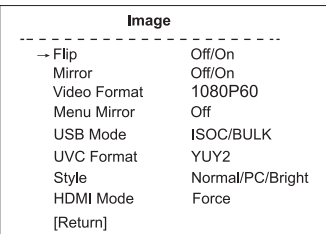
WB mode: Auto/Manual/VAR/Indoor/Outdoor/Onepush

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

The range is 0 to 99.

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

6.4 Level 2 Menu-Image



Flip: Enable/disable the picture up/down flip

Mirror: Enable/disable the picture left/right flip

Video Format: 4K30(Only available for 4K 12x Zoom)/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
Style Mode: Normal, PC, Bright
HDMI Mode:Force

6.5 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 0-7
AF Zone: Bottom/Left/Right/Front/Top/Middle
AF Sense: Normal/High/Low
AF Scene: Normal/Macro/Live

6.6 Level 2 Menu - Communication

Communication

→ Protocol

Auto

Baudrate

9600

RC Address

All

[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.

6.7 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.

6.8 Level 2 Menu - Restore Default

Restore Default

→ Yes

No

[Return]

7. Network Function

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 on the camera's bottom).

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

Navigate to:
Control Panel > Network and Sharing Center > Change 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.

Internet Protocol Version 4 (TCP/IPv4) Properties

Advanced TCP/IP Settings

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

Obtain an IP address automatically

Use the following IP address:

IP address:

192 . 168 . 0 . 100

Subnet mask:

255 . 255 . 255 . 0

Default gateway:

192 . 168 . 0 . 1

Obtain DNS server address automatically

Use the following DNS server addresses:

Preferred DNS server:

.

Alternate DNS server:

.

☐ Validate settings upon exit

Advanced

OK

Cancel

General

IP addresses

IP address

192.168.0.100

Subnet mask

255.255.255.0

Add...

Edit...

Remove

Default gateways

Gateway

192.168.0.1

Metric

Automatic

Add...

Edit...

Remove

☒ Automatic metric

Interface metric:

OK

Cancel

Steps:

- 1)Access camera's web interface.
- 2)Enter http://192.168.0.206 in a browser.
- 3)Navigate to: Setup > Network Settings > Local Network.

Update settings:

IP Address: 192.168.x.206 (match your subnet, e.g., 192.168.1.206)
Subnet Mask: 255.255.255.0

Default Gateway: 192.168.x.xxx (typically your router's IP, e.g., 192.168.1.1 or 192.168.1.254)

7.4 IE Login

Input http://192.168.0.206 to IE (better with IE or Google web browser), a login window will pop up, input user name: admin, password: admin, language: English. After successfully login, you can do preview, configurations, etc.

PTZ Camera

Login

Account

Password

Language

English

Login

7.5 Video streaming

- 1)Select "Setup"->"Video Settings"->"System Settings" to enter the following interface:

Main Stream

Sub stream

Video Coding: H264

Video Coding: H264

Encode Type: Baseline

Encode Type: Baseline

Resolution: 1920x1080

Resolution: 1280x720

Bitrate Type: CBR

Bit-rate Type: CBR

GOP: 30

GOP: 30

Bit Rate: 3075

Bit Rate: 1024

Frame rate: 30

Frame rate: 30

Encoder: H.264

Encoder: H.264

Save

Refresh

2)RTSP video streaming

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

RTSP Auth: On

Main Stream: rtsp://192.168.0.206:554/live/av0

Sub Stream: rtsp://192.168.0.206:554/live/av1

Submit

Cancel

Configure parameters according to the network environment.

For example, Camera default IP Address: 192.168.0.206

Here is the way to get RTSP video streaming.

Default RTSP main streaming address: rtsp://192.168.0.206:554/live/av0(Main)

Default RTSP sub streaming address: rtsp://192.168.0.206:554/live/av1(Sub)

3) RTMP video streaming

Select "Setup"->"Network Settings"->"RTMP" to enter following interface:

First Stream: On

MRL: rtmp://192.168.0.206:1935/live/av0

Second Stream: On

MRL: rtmp://192.168.0.206:1935/live/av1

Submit

Cancel

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)

Select "Setup"->"Maintenance"->"System Upgrade" to enter the following interface:

Select the upgrade file

Submit

- 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)

7.7 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 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: ①Not work, please replace batteries

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 12).

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 has 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.

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)