

6.4 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.



6.5 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.

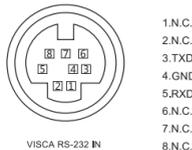
(3) Remove Preset: Press **【RESET】**, then press one of the number (0-9) to remove a preset that corresponds to the NUMBER.



6.6 AI Mode

- Press **【AI】** button to enter autoframing mode, and start Auto Tracking; Press **【AI】** button again to turn off autoframing.
- When in autoframing mode, press **□** to track single object. A red box will appear on the object tracked. Switch between different objects by pressing the PTZ Control Keys. Press **□** button to start Single Object Tracking, when the object is confirmed.
- Press **□** to exit Single Object Tracking mode and return to general autoframing.

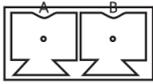
6.8 RS-232 Interface Distribution



- 1.N.C.
- 2.N.C.
- 3.TXD
- 4.GND
- 5.RXD
- 6.N.C.
- 7.N.C.
- 8.N.C.

6.9 RS-485 Interface Distribution

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



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. (Different models have different IP, please check the default IP at the bottom of the camera.)

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



7.2 How to add networking:

7.2.1 Open the computer network local connection attribute window

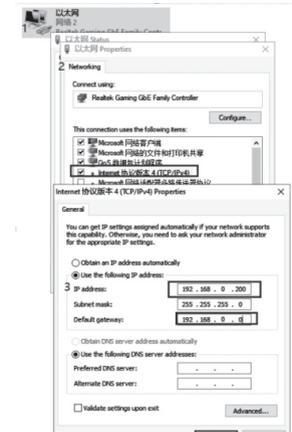
select "Internet Protocol Version 4 .TCP/IPv4;

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.

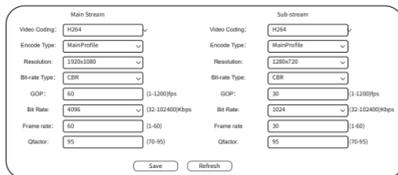
7.2.4 Change the computer's IP to 192.168.0.200 so that the computer IP and camera IP are on the same network segment.

PS:If no network segment is added. You will fail to login. The default IP address of the product is 192.168.0.206. "0"network segment needs to be added to the computer. The IP address cannot conflict with the IP address of other computers or products. Before adding, please verify whether the IP already exists.



7.4 Video streaming

7.4.1 Select "Setup"- "Video Settings"- "System Settings" to enter the following interface:



7.4.2 RTSP video streaming

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



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(av0 Main)

Default RTSP sub streaming address:

rtsp://192.168.0.206:554/live/av1(av1 Sub)

7.4.3 RTMP video streaming

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



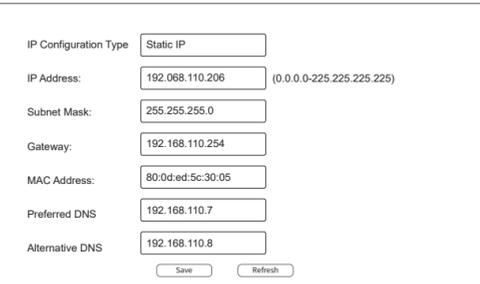
Enable and turn on the RTMP video stream to the server

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

Streaming code: Persistent Stream Key/Name

7.5 Modify the camera IP and computer IP on to the same network segment, so that the computer network is not affected.

7.5.1 Select "Setup"- "Network Settings"- "Local Network" to enter the following interface:



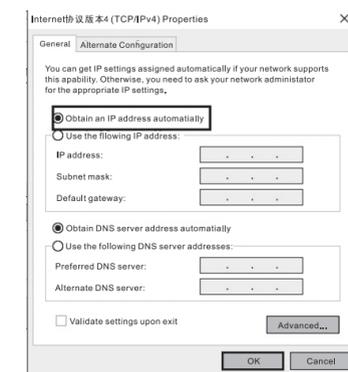
7.5.1.1 Change the camera IP address to: 192.168.110.206

7.5.1.2 Default Gateway: 192.168.110.254

7.5.1.3 Alternate DNS: 192.168.110.7

7.5.1.4 Preferred DNS: 192.168.110.8

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



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

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



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 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

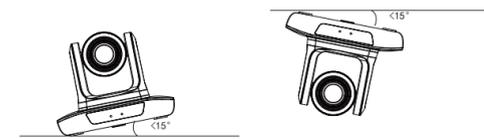
Port address: Sony VISCA/52381

Application Range: Under the same network segment

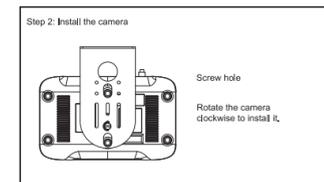
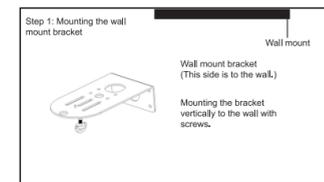
8. Installation Instructions

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: 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 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.

6.7 DIP Switch Setup

DIP	HDMI	SDI
0x00	1080p60	1080p60
0x01	1080P59.94	1080P59.94
0x02	1080p50	1080p50
0x03	1080p30	1080p30
0x04	1080p29.97	1080p29.97
0x05	1080p25	1080p25
0x06	1080i60	1080i60
0x07	1080i59.94	1080i59.94
0x08	1080i50	1080i50
0x09	720P60	720P60
0xA	720P59.94	720P59.94
0xB	720P50	720P50
0xC	RSVD	RSVD
0xD	RSVD	RSVD
0xE	RSVD	RSVD
0xF	RSVD	RSVD

(1)Default Format Mode: DIP. Setting path: MENU-SETUP-VIDEO SETU

(2)Two options for Format Mode: DIP and OSD

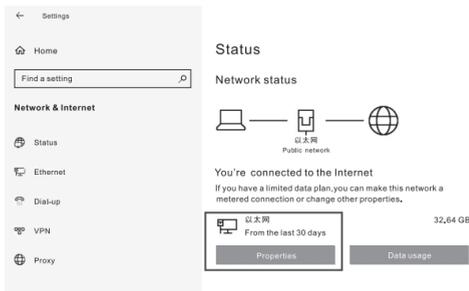
(3)When choosing DIP, the corresponding resolutions for the DIP values on the table above will be output. Default resolution is 1080P60, when DIP is between 0xC and 0xF.

VIDEO SETUP	
DVI Mode	HDMI
Format	DIP
SDI Mode	Level A

(4)When choosing OSD,HDMI Format at the next line will display the video

resolution, and the resolution is optional.

VIDEO SETUP	
DVI Mode	HDMI
Format Mode	OSD
HDMI Format	1080P60
SDI Mode	Level A



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::b1b:1f9a:3e4d:4899%3

IPv4 address: 192.168.110.73

IPv4 DNS servers: 192.168.110.1

Primary DNS suffix: lan

Manufacturer: Realtek

7.3 Input http:// 192.168.0.206 to IE(better with IE or Google web browser), a login window pop up, input user name: admin, password: admin, language, English, shown as below,whether the IP already exists.

admin, language, English, shown as below,whether the IP already exists.

7.3.1 When logging in for the first time, will be prompted to change your password. Users can change the passwords and save it.



7.3.2 After successfully login, you will enter the Video viewing interface.

In the setting interface, you can set Pan and tilt control, Zoom, Focus, and set, call, clear of preset positions, etc.

