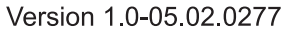


User Manual



(Please keep this for warranty claims)

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.

NOTE: Default Protocol is ONVIF/NDI, if any other protocols need, use Manually added.

Item	Description
Language	English/ Chinese
Sound	On/Off for the Keyboard sound
System	Factory Reset / restart/Upgrade *When executing the factory reset, do not move the PTZ joystick and the ZOOM in/out button
Version	Keyboard Version

3.5 Network Set

Device List

Search Device

Manually Add

System Set

Network Set

exit

Network

type

DHCP

ip

192.168.0.113

mask

255.255.255.0

gateway

192.168.0.196

DNS

192.168.0.196

Save

Cancel

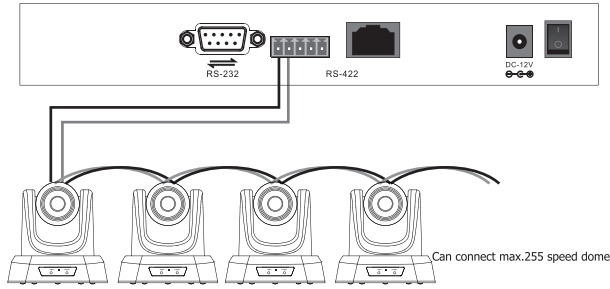
Item	Settings	Description
Type	STATIC/DHCP	Specify a static IP or let DHCP to assign an IP to the keyboard
IP Address	192.168.0.179	For a static IP, specify the IP address in this field
Mask	255.255.255.0	For a static IP, specify the mask in this field
Gateway	192.168.0.1	For a static IP, specify the gateway in this field
DNS	192.168.0.179	For a static IP, specify the DNS in this field

4. Camera Connection Description

4.1 Analog Connection

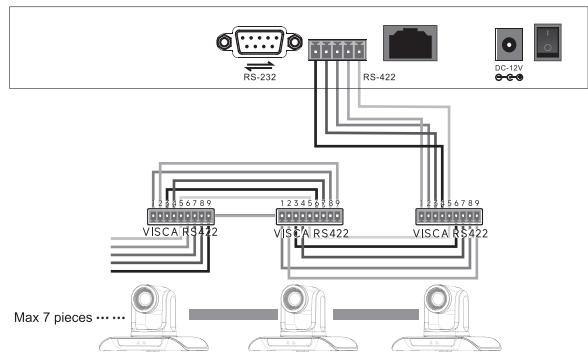
4.1.1 RS485 Connection

Analog Mode: Connection diagram of controlling PTZ camera Via RS485.



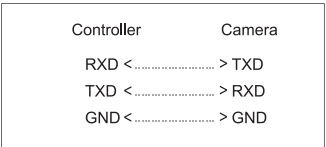
RS485 Control Output: RS485+ of PTZ camera connects to Ta of RS422 on the joystick controller and RS485- of PTZ camera connects to Tb of RS422 on the Joystick controller.

4.1.2 RS422 Connection



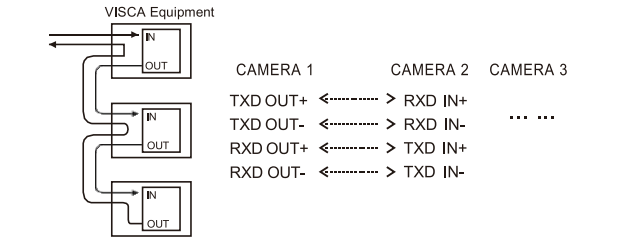
4.1.3 RS232 Connection

The first pin RXD of joystick controller (10pin terminal) connects to the Input interface TXD of camera, the second pin TXD of joystick controller connects to RXD of camera, the third pin of joystick controller connects to GND of camera (also can use the standard RS232 interface (DBO) of joystick controller to connect the camera.)



4.1.4 Connection Between Cameras

Use the RS485 bus cascade connection method. The output of camera #1 connects to the input of camera #2 and the output of camera #2 connects to the input of camera #3 and so on as shown in the diagram below:

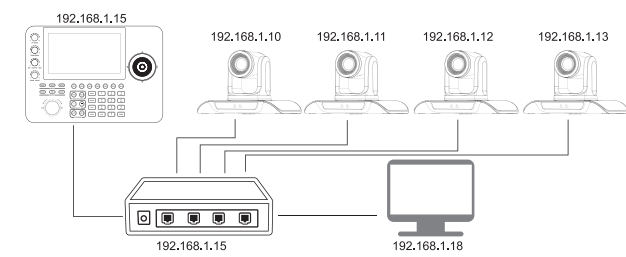


The RS232 cascade connection method is essentially the same as that for RS485: connect the output of camera #1 to the input of camera #2, the output of camera #2 to the input of camera #3, and so on.



4.2 Network Connection

Network Mode: Connection diagram of controlling PTZ camera via VISCA, NDI, ONVIF.



Connect the camera and joystick controller in the same LAN and ensure their IP address in the same network segment, such as 192.168.1.123 and 192.168.1.111 belong to the same network segment, while 192.168.1.123 and 192.168.0.125 do not belong to the same network segment, so you need to modify the joystick controller or the ptz camera IP address. The joystick controller gets its IP address dynamically.

5. Network Configuration

5.1 Home connection & Login

Please connect the power cable and then the network cable to the joystick controller. Upon successful startup, the controller will display its IP address (e.g., 192.168.x.xxx) on its screen. To access the configuration page, enter this IP address into a web browser.

The initial username: admin; password: blank.

1. Connect the joystick controller and computer to the same LAN segment, enter the joystick controller IP address to the browser. The page display as follows:

PTZ Controller Login

admin

Password

English

Login

Device Management

Settings

Search Device

Add Manually

Channel

IP

Port

Protocol(network)

Baudrate

Address

Protocol(analog)

Operate

1

192.168.0.205

52381

SONY VISCA/UDP

9600

1

PELCO-D

2

192.168.0.206

52381

SONY VISCA/UDP

9600

2

PELCO-D

3

192.168.0.207

52381

SONY VISCA/UDP

9600

3

PELCO-D

4

192.168.0.208

52381

SONY VISCA/UDP

9600

4

PELCO-D

5

192.168.0.209

52381

SONY VISCA/UDP

9600

5

PELCO-D

6

192.168.0.210

52381

SONY VISCA/UDP

9600

6

PELCO-D

7

192.168.0.211

52381

SONY VISCA/UDP

9600

7

PELCO-D

Save IP

2. Default username: admin; password: blank.

3. Enter device web interface, the page display as follows:

Search Type

ONVIF

NDI

Camera:

1

Type:

Network Protocol

Network:

Protocol

SONY VISCA(UDP)

IP

192.168.0.205

Port

52381

rtsp url

rtsp://192.168.0.205:554/live/av1

rtsp user

admin

rtsp password

admin

Analog:

Protocol

PELCO-D

Baudrate

9600

Address

1

4. After entering the device home page, you can view the details of the device parameters, which can be changed.

5. Click to add and modify the device parameters in the LAN. Input the device number corresponding IP address, port number and user name and click save.

Note: When entering the joystick controller web interface to add a device successfully, which will be displayed on the LCD screen of the joystick controller. After adding the device on the web interface successfully, click the joystick controller corresponding number to control the camera.

5.2 WEB Interface setup

Network settings can modify the device's IP acquisition method and port parameters, as shown below:

Network

Network Type

STATIC

IP Address

192.168.0.11

Netmask

255.255.255.0

Gateway

192.168.0.1

DNS1

8.8.8.8

DNS2

114.114.114.114

MAC

3A:2D:75:FB:9B:2E

Save

Dynamic Address(DHCP)(Default acquisition method):The joystick controller will request an IP address from the router automatically. After the request is successful, it will be displayed on the joystick controller's display. The display format is: " Local IP: 192 .168 .x . xxx ". Static Address(STATIC): When the user wants to set the network segment by himself modify the network type to a static address and fill in the information of the network segment that requires to be modified.

5.3 System upgrade

Upgrade

Browse

Upgrade

Upgrade function is used as the maintenance and update joystick function. After entering the upgrade page, select the correct upgrade file and click "start". The device will automatically restart after the upgrade is completed.

Note: Do not perform any operations against the device during its upgrade process, and do not power off or disconnect the network!

5.4 System Reset

Reset

Reset

When clicking the device to reset, the joystick controller will remove all data, and the network will automatically default to a static IP. Recommended caution operation.

5.5 Account

Network	Settings
Upgrade	
Reset	<input type="checkbox"/> ID Username Password Modify
Restart	<input type="checkbox"/> 1 admin1
Import	<input type="checkbox"/> 2 admin2
Export	<input type="checkbox"/> 3 admin3
Account	<input type="checkbox"/> 4 admin4
Calibrate	<input type="checkbox"/> 5 admin5
Version	<input type="checkbox"/> 6 admin6
Multiview	<input type="checkbox"/> 7 admin7
	<input type="button" value="Add"/> <input type="button" value="Delete"/>

5.6 Joystick/Rocker calibration

Network

Joystick calibration | Rocker calibration

Manual Calibration

5.7 Restart & Version

Reset

Reset

Reset

Hardware

V1.0.1-190823

Software

V5.3.2-20230905

Web

V3.0.6-20230905

After the device is used for a long time, you need to restart it for maintenance. Click Restart to restart the camera.

5.8 Multi-View Setting

There are 4 zones on the screen, select the IP address of the camera you want to display the camera screen in the corresponding zone.

Multiview

1

2

3

4

ID1-192,168,0,205

ID1-192,168,0,205

ID2-192,168,0,206

ID2-192,168,0,206

ID3-192,168,0,207

ID3-192,168,0,207

ID4-192,168,0,208

ID4-192,168,0,208

ID5-192,168,0,209

ID5-192,168,0,209

ID6-192,168,0,210

ID6-192,168,0,210

ID7-192,168,0,211

ID7-192,168,0,211

6. Trouble Shooting

LCD Display shows "Control Failure"

This can occur when the controller doesn't receive a response from the camera.

- Please check that the network jacks you are using are active.
- Please check that the network cable you are using is not failing.
- Please check that the camera is supplying an Acknowledgement and Completion response.

The joystick isn't controlling any cameras at all

This can occur when the camera(s) and/or joystick aren't properly set up.

- Check that the network jacks you are using are active.
- Check that the network or serial cables you are using are not failing.
- Check that the camera control address matches the joystick control address.
- Check that you are in the correct control mode. Hold the Joystick Controller button for 3+ seconds to toggle between serial and Network control.

Multiple cameras are being controlled at once

This can occur when multiple cameras are set to the same joystick control address.

Check the camera's control addresses and ensure that each camera has a unique address.

- Open the joystick OSD menu and select option 3. Device List: Inquire. Check that none of the connected cameras have the same control address.
- Log into the Web UI and select Devices. Check that none of the connected cameras have the same control address.

Note:

- Add device for manual addition.
- Enter the correct port number and device connection protocol in Add Device.

When the screen displays "Incorrect username and password", please check whether the username and password of the added device are correct.

When use ONVIF protocol but fails to add devices of other brands, please check.

