

Multifunctional PTZ Remote Controller

User Manual



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Tips

Thank you for using our products.

In order to enable you to operate this machine proficiently as soon as possible, please carefully read the instruction manual we provide for you, from which you can obtain product safety precautions, product introduction and product usage methods and other related knowledge. After you have read the instruction manual, please keep it properly for future reference.

If you find any problems during the use of the product, please contact our relevant service personnel, thank you for your cooperation.

Precautions

1. Before connecting to the device, make sure the power supply voltage is correct. Only use the original uncut (unspliced) power supply that came with your keyboard.
2. If the product does not work properly, please contact your dealer. Never attempt to disassemble the device yourself. (We are not responsible for problems caused by unauthorized repair or maintenance.)
3. This product is an indoor device, please do not place this product in a place with water or humidity.
4. When transporting, the equipment should be packed in the original packaging.
5. Do not drop or subject the unit to physical impact.
6. Do not use strong detergent to clean the machine, when the dust is thick, wipe gently with a neutral detergent, and only for external cleaning.
7. Keep RJ-45 ports free of dust and moisture.
8. Avoid moving the machine between places that are too cold or too hot to avoid fogging inside the machine and affect its service life.

Affirm

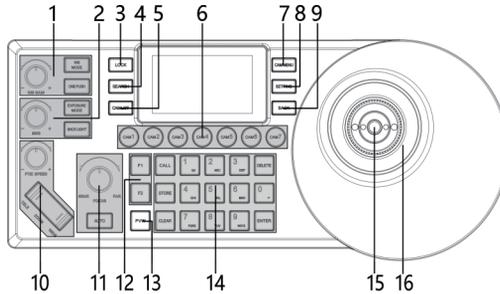
1. We have done our best to complete and correct the content of this manual, but there will inevitably be errors and omissions, and we will not be responsible for any technical or printing errors in this manual.
2. The appearance of the product shown in this manual is for reference only, and may differ from the actual appearance of the device you purchased.
3. This instruction manual guides multiple product models, so it is not intended to be used alone for any specific product.
4. The display interfaces in this manual, illustrations, parameters, drawings and model value ranges may be different. Please refer to the actual product for details.
5. The content of this manual is subject to change without prior notice.
6. If there is a discrepancy with this manual due to software version upgrades, please refer to the software as the standard.

Feature

- **4D precise Joystick+3D knobs+ergonomic zoom button:**
Camera parameters control such as white balance, exposure, focus and zoom etc.
- **Newly Upgraded WEB Backstage Management:**
Access WEB backstage through PC internet to set up controller's main functions.
- **Built-in 3-inch LCD screen:**
Support real-time PVW of current camera viewing through up streaming (NDI HX2 and RTSP only).
- **Support 7 cameras selection shortcuts:**
7 camera shortcuts can be set quickly according to requirements; Up to 1000 cameras information can be saved.
- **Newly upgraded UI operation interface:**
Display main parameters of cameras directly, personalize stylish interface casually.
- **Remote control of PTZ camera menu:**
Open camera's menu quickly and combine PVW screen or image screen to control.
*This function is recommended to be used with our camera.
- **White and red backlight silicone buttons:**
High-quality silicone, excellent touch, support white and red backlight so it can be operated smoothly in a low-light environment, support letters and common characters input and other operations such as editing camera's name and address.
- **Support buttons lock via one click:**
Lock buttons via one click to avoid misoperation.
- **Multiple control protocols, apply to abundant venues:**
Support VISCA、VISCA Over IP、VISCA TCP、PELCO P/D、Onvif and NDI, support automatic protocol recognition.
*Additional licenses are required to upgrade the NDI function, please consult the manufacturer for details.
- **Abundant interfaces,multiple connection methods:**
External RS-232,RS422/485 serial port and RJ45 network interface. The network interface supports POE function, thereby reducing wiring trouble.
- **External tally interface:**
Support up to 7 tally channels.
- **Support customizable buttons:**
Support customizable buttons F1, F2, PVW,can set the best operation function according to requirement.
- **Support HDMI output to large screen display:**
Output the front camera image to the monitor for real-time preview through the HDMI interface, supporting up to 4KP30 ultra-high definition resolution.

Product diagram

The Frontboard :



Button Function :

1.White balance adjustment

“WB MODE” white balance mode selection

“ONE PUSH” trigger, white balance is triggered when the controller is in “ONE PUSH” mode.

“R/B GAIN”white balance adjustment

2.Exposure adjustment

“EXPOSURE MODE” exposure mode selection

“BACKLIGHT” turn on/off backlight

“I/S/G”exposure adjustment

3. “LOCK”, lock keyboard

4. “SEARCH”for searching IP device; support VISCA OVER IP / ONVIF / NDI protocol search

5. “CAM LIST”, IP device list

6. “CAM1~CAM7”, shortcut buttons to select cameras

7. “CAM MENU”, camera menu, turn on/off

8. “SETTING”, control keyboard settings

9. “BACK”, back button

10.Optical zoom adjustment

“PT/Z SPEED”, knob to adjust the pan, tilt, zoom’s speed level(1~7)

“ZOOM” TELE WIDE, control camera’s optical zoom

11.Focus adjustment (One click to trigger focus)

“NEAR”, manual focus mode, near focus

“FAR”, manual focus mode, far focus

“AUTO”, auto focus mode

12.F1, switch page (customizable)

F2, turn on/off digital zoom (customizable)

13.“PVW”, preview current-controlled device’s video (customizable)

14.Preset operation area: characters, number keyboard

15.HOME, one click for PT back to the original position, long press 5 seconds for PT reset.

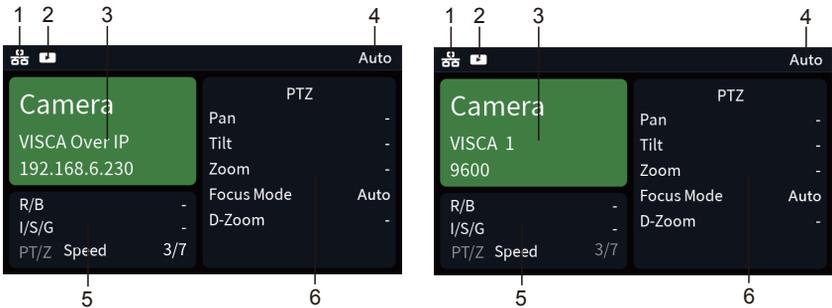
16.PTZ joystick

The left and right direction of the joystick is panning, and the up and down is tilting. When you release the joystick, the camera will stop moving.

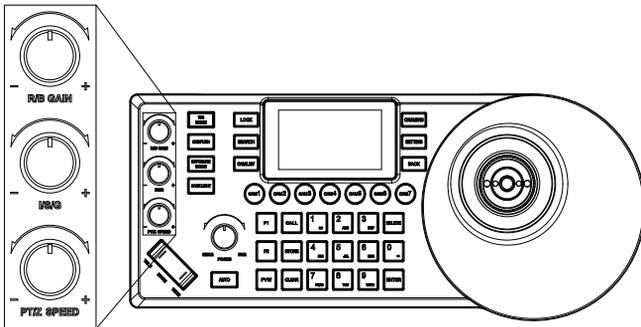
Turn the knob on the joystick clockwise, ZOOM TELE; Turn the knob on the joystick anticlockwise, ZOOM WIDE.

Product diagram

Screen:



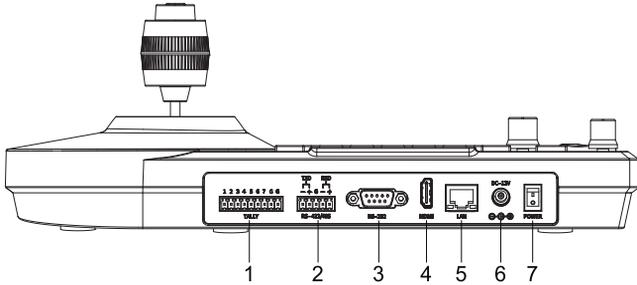
1. Network connection indicator icon “” indicates that the network has been connected successfully;
2. Preview video indicator icon “” indicates that current device you control has the preview video streaming;
3. Control camera through network, it shows device name, control protocol, device IP address respectively;
- Control camera through Serial port, it shows device name, control protocol, device ID address, baud rate respectively;
4. Operation record area;
5. “R/B” is current mode of “R/B GAIN” knob;
“I/S/G” is current mode of “I/S/G” knob;
“PT/Z speed” is current mode of “PT/Z SPEED” knob;



6. Camera's current mode display area.

Product diagram

Interface :



1. Tally interface;

2. RS-422/485 interface;

Connect with RS-422 cable, up to 7 cameras can be controlled through VISCA protocol;
Connect with RS-485 cable, up to 7 cameras can be controlled through VISCA protocol and up to 255 cameras through PELCO protocol.

3. RS-232 interface;

Connect with RS-232 cable, up to 7pcs cameras can be controlled through VISCA and up to 255pcs cameras through PELCO protocol.

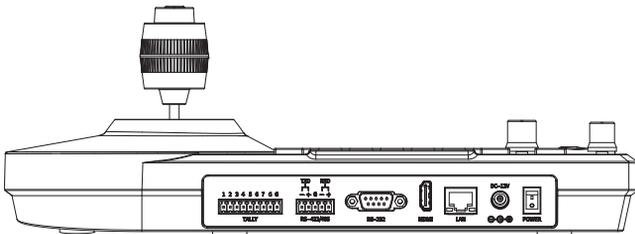
4. HDMI output interface(for external display devices);

5. LAN port, connect the controller with network (up to 1000 network cameras can be saved);

6. DC-12V power input interface;

7. Power on/off.

Interface pin definition



 TALLY		 RS-422/485		 RS-232		 LAN			
Pin NO	Function	Pin NO	RS-422 Function	RS-485 Function	Pin NO	Function	Pin NO	Function	Color
1	Tally1	1	TXD-	B-	1	NC	1	TXD+	Orange/White
2	Tally2	2	TXD+	A+	2	RXD	2	TXD-	Orange
3	Tally3	3	GND	GND	3	TXD	3	RXD+	Green/White
4	Tally4	4	RXD-	/	4	NC	4	POE45	Blue
5	Tally5	5	RXD+	/	5	GND	5	POE45	Blue/White
6	Tally6				6	NC	6	RXD-	Green
7	Tally7				7	NC	7	POE78	Brown/White
G	GND				8	NC	8	POE78	Brown
G	GND				9	NC			

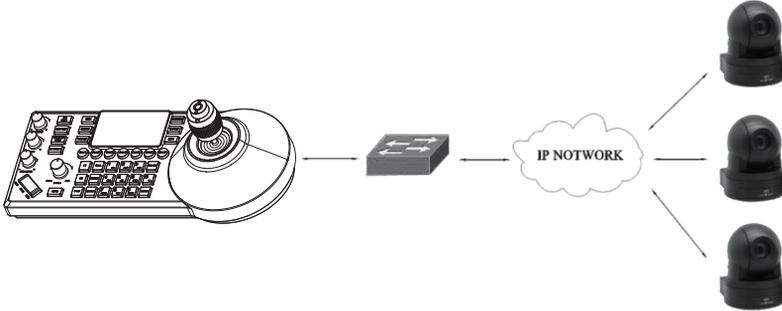
Power supply

Supply controller's power by the following methods

1. DC power adapter power supply (standard 12V)
2. POE power supply (connect the Ethernet IP port to the POE switch)
Use CAT6 cable, the maximum distance is 100 meters (802.3af)

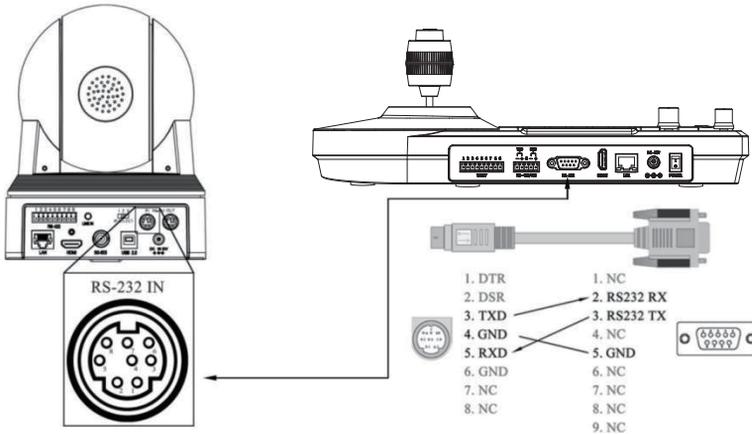
IP connection

Connect "LAN" port of the controller to port on the Ethernet switch



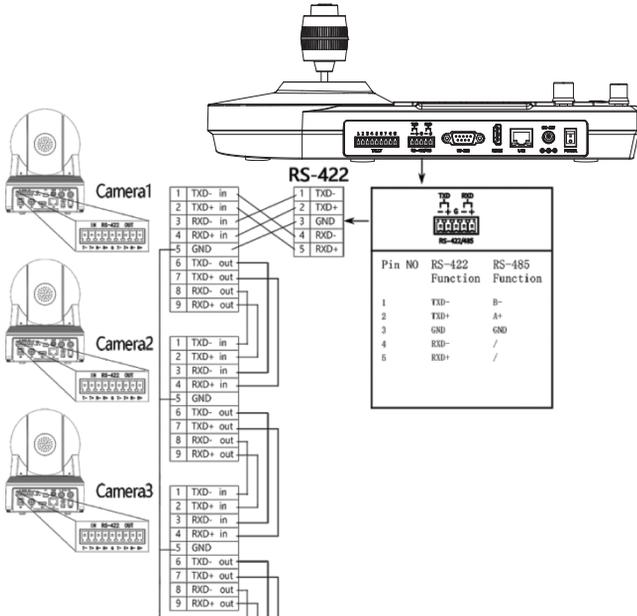
Serial connection

1. Connect DB9 to RS232 8 pin mini port control cable for RS-232 connection RS232 interface picture

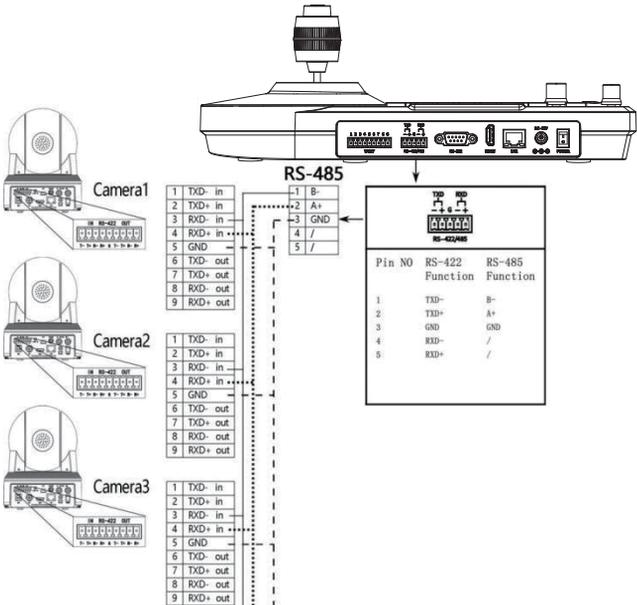


Serial connection

2. Phoenix connector for RS-422 connection



3. Phoenix connector for RS-485 connection



Keyboard OSD menu settings

- Press the "SETTING" button to open / exit the keyboard menu
- Use the joystick to operate the keyboard menu
 - a. Move the joystick cursor up and down
 - b. Move the joystick to the right to enter the next menu / switch parameters
 - c. Move the joystick to the left to return to the previous menu / switch parameters
 - d. "HOME" button on the top of the joystick to enter the next menu / save and exit
- Use the "FOCUS" knob to operate the keyboard menu
 - a. Rotate the cursor clockwise down
 - b. Rotate the cursor counterclockwise up
 - c. Click the "FOCUS" knob to enter the next menu / save and exit
- Click the "BACK" "AUTO" to return to the previous menu / exit without saving

Keyboard input

- Each button with number and letter or symbol input, select the character you want to input by clicking the button continuously
- Adjust the cursor position by rotating the joystick left or right or the "FOCUS" knob
- Case switching:
 - a. Click the button "1" twice continuously to switch to uppercase English
 - b. Click the button "1" three times continuously to switch to lowercase English
- "DELETE" : delete a single character
- "ENTER", "HOME" : save and exit
- "BACK", "AUTO": do not save and exit

Menu introduction

Main menu list

Settings	
√ .Hot Key	>
√ .Device Management	>
√ .Protocol Settings	>
√ .Network	>
√ .Keys	>
√ .Display	>
√ .Beep	>
√ .Joystick	>
√ .Tally	>
√ .Language	English >
√ .About Device	>
√ .Reset Device	>

Hot Key: It is used to set the device information of CAM1~CAM7 shortcut keys;
Device Management: Used to manage the keyboard neglect device and added device information;
Protocol Settings: Authorization and information management for the corresponding protocol of the controller;
Network: Used to manage network setting;
Keys: Used to set up the custom functions of the buttons F1 and F2, and the preset operation mode;
Display: Used for setting up the display of controller;
Beep: Beep happens when operate the buttons;
Joystick: Set up joystick related functions;
Tally: The controller is used to send and receive tally signals;

Language: Set the keyboard display language;

About Device: Display equipment information (the following information is given by the manufacturer and cannot be modified without permission. If you have any questions, please contact the manufacturer);

Reset Device: Restore to factory default setting state.

Menu introduction

1. Hot Key

Hot Key	
√. CAM1	>
√. CAM2	>
√. CAM3	>
√. CAM4	>
√. CAM5	>
√. CAM6	>
√. CAM7	>



Camera Information	
√. Device Name	Camera 1 >
√. Protocol	VISCA ∨
√. Address	1 ∨
√. Baudrate	9600 ∨
√. Compatible Mode	Normal ∨
√. Video Stream	RTSP ∨
√. Stream URL	rtsp://>
√. RTSP Authentication	<input checked="" type="checkbox"/>
√. RTSP User Name	admin >
√. RTSP Password	***** >
√. Reset Camera Address	>
√. Select from List	>

VISCA
Pelco D
Pelco P
VISCA Over IP
VISCA TCP
ONVIF
NDI
Matrix Control

Device Name: Modify the device name which is displayed on the home page;

Protocol: Select a protocol based on your needs, "VISCA", "PELCO D", "PELCO P", "VISCA Over IP", "VISCA TCP" can be manually input, "ONVIF" and "NDI" cannot be manually selected, needs to be selected from the device list, Matrix Control is "matrix" protocol to operate a batch of camera's presets;

Address: match the camera address;

Baudrate: match the camera baud rate;

Compatible mode: When it has problem to use the standard mode to work with the camera, pls try to use other modes;

Video stream: A protocol that supports video streaming over a network;

Stream URL: Enter the camera stream address to pull the video signal of the camera;

RTSP Authentication: Users can choose to turn on/off RTSP authentication and set the login username and password.

Reset camera address: When cascading multiple cameras and using the VISCA protocol this function can assign corresponding addresses to the cameras according to the connection sequence (only valid under the VISCA protocol);

Select from list: You can select a device from the "device list" for quick control.

Menu introduction

2. Device Management

Device Management	
Device List	>
Add a New Device	>
Ignored Device List	>
Add an Ignored Device	>

Device list: You can delete the device that has been added to the keyboard or modify the device information that has been added to the keyboard;

Add a new device: Manually add devices to the keyboard;

Ignored device list: block specified devices in the search list;

Add an ignored device: Manually add devices that need to be blocked in the search list.

3. Protocol settings

Protocol settings	
√. NDI	>
√. RTSP	>

NDI: display NDI authorization status and edit NDI group, if not authorized, please enter the activation code factory provided.

RTSP: display the current URL suffix. The device streaming suffix can be modified. default is /1/h264major.

4. Network

Network	
√. DHCP	<input checked="" type="checkbox"/>
√. IP Address	192. 168. 1. 119>
√. Net Mask	255. 255. 255. 0>
√. Gateway	192. 168. 1. 1>
√. DNS1	192. 168. 1. 1>
√. DNS2	8. 8. 8. 8>
√. Extra IP1	OFF>
√. Extra IP2	OFF>
√. Extra IP3	OFF>

DHCP: DHCP ON means network-related IP address can be attained automatically (dynamic address), DHCP OFF means network-related IP address need to be added manually (static address);

Extra IP 1/2/3: You can manually add the IP of other network segments, and after enabling it, it can be used to control cameras in other different network segments in the LAN (should be used when DHCP is off).

5. Keys

Keys	
√. F1	>
√. F2	>
√. PVW	>
√. Preset Operation Mode	10 ∨

a.F1: default function is "switch status page"

b.F2: default function is "digital zoom"

c.PVW: default function is "preview"

{F1, F2, PVW buttons can be defined as "power" "digital zoom" "PT back to the original position" "Freeze" "flip" "mirror" "night vision" "auto night vision" "user's command 1/2/3(Instructions can be entered manually). The above functions are only effective under the VISCA and VISCA OVER IP protocols}

d.Preset mode: 10 or 255 mode can be optional.

Menu introduction

6. Display

Display	
√. Theme Color	Green ▾
√. Brightness	High ▾
√. Key Brightness	Medium ▾
√. Auto Sleep	<input checked="" type="checkbox"/>
√. HDMI Resolution	1920x1080p60

Theme color: Modify the display color of the controller theme;

Brightness: Modify the screen brightness;

Key brightness: modify the buttons brightness;

Auto sleep: the controller will sleep after 30 minutes when you turn on the automatic sleep, and the buttons and screen brightness become low.

HDMI Resolution: Selectable output display resolution.

7. Beep

Beep	
√. Enable	<input checked="" type="checkbox"/>
√. Style	Style1 ▾

The buzzer works when prompt tone is turned on, and there is sound feedback when the buttons are pressed;

Style: select the prompt tone style.

8. Joystick

Joystick	
√. Key Enable	<input checked="" type="checkbox"/>
√. Zoom Enable	<input type="checkbox"/>
√. Pan Reverse	<input type="checkbox"/>
√. Tilt Reverse	<input type="checkbox"/>
√. Correction	>

Key Enable: After turning on, click the top button can control the camera back to home position

Zoom Function: After turning on, rotate the joystick to control the zoom of the camera;

Pan Reverse: Turn on, the left and right direction is reversed when you control the camera;

Tilt Reverse: Turn on, the up and down direction is reversed when you control the camera;

Calibration: When the joystick is abnormal, try to calibrate the joystick according to the prompts (click the "BACK" button to back from the calibration mode).

9. Tally

Tally	
√. Enable	<input checked="" type="checkbox"/>
√. Mode	Input ▾
√. Camera Link	<input type="checkbox"/>

Tally signals can be received and sent after being turned on;

Mode: The controller can be selected as tally signal output or input;

Camera Link: Turn it on, connect the camera with tally light, when the camera is connected with the protocol that supports tally signal, the tally light of the camera will receive the signal and respond.

Menu introduction

10. Language

Language	
√. Language	English ▾
	English
	简体中文

Set the keyboard language.(Default is 'English')

11. About Device

About Device	
√. Firmware Version	V0.0.27>
√. Authorization	Authorized
√. Serial Number	B66CD8B163
√. MAC Address	54:87:62:21:25:33

Firmware version: display the current program version of the keyboard;

Authorization: display the current authorization status of the keyboard (unauthorized keyboards can only be used for 1 minute, and cannot be operated beyond 1 minute);

Serial number: display keyboard serial number;

MAC address: display keyboard MAC address.

12. Reset device

Reset device	
√. Reset Settings	>
√. Reset Settings and Data	>

Reset settings: restore the keyboard basic menu setting options to the factory state (network settings, language, user-added device data will not be restored);

Reset settings and data: restore all keyboard settings and clear all device data added by users.

Camera assignment

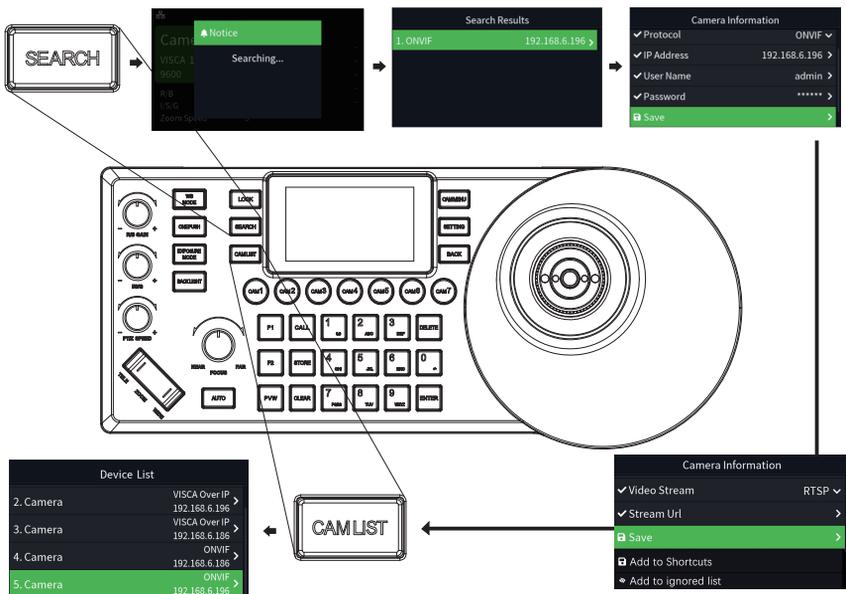
Add IP camera to keyboard

1. Search the local network and add the IP camera to the keyboard;

- Press "SEARCH" button to search IP camera;
- The keyboard screen displays "Searching for devices, please wait";
- Display the discovered VISCA IP/ONVIF/NDI cameras, use the joystick or "FOCUS" knob to browse the discovered cameras;

(For discovered cameras, camera parameters can be modified, added to the camera list, add to shortcuts, and added to the ignore list);

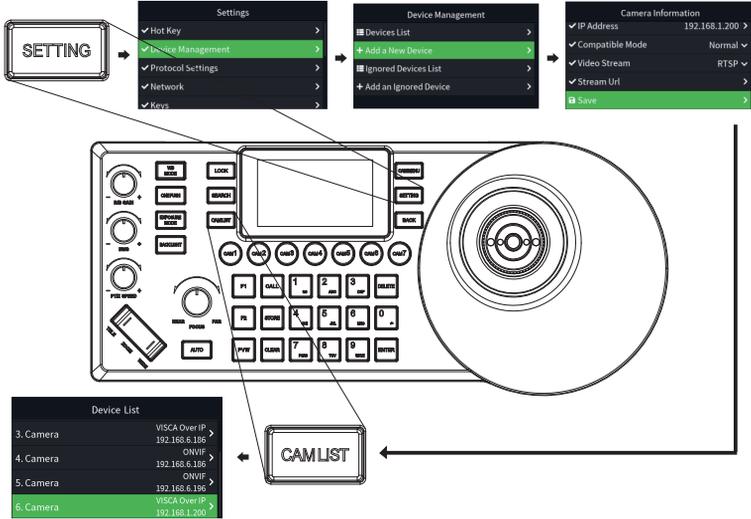
- Edit discovered cameras and add cameras to the camera list (device that has been added to the camera list will no longer be displayed in the search list);
- Exit the search list;
- Press the "CAM LIST" button to open the camera list, use the joystick or the "FOCUS" knob to select the corresponding camera.



Camera assignment

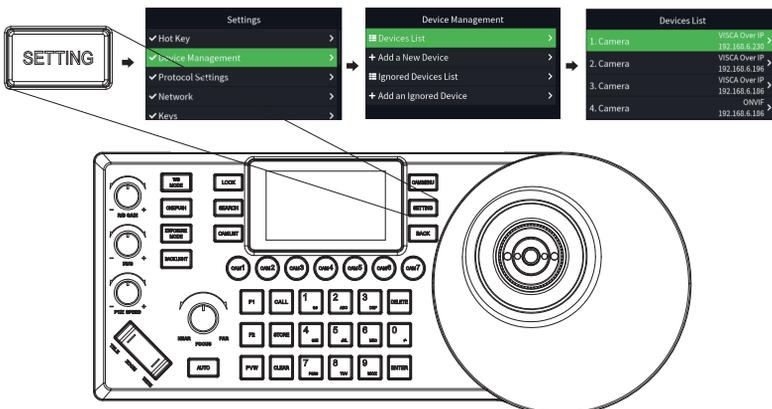
2. Manually add VISCA_IP, VISCA_TCP cameras to the keyboard:

- Click "SETTING" to open the keyboard menu, select the "Device List" column, select the "Add Device" column, modify the corresponding camera parameters and click "Save" (when the IP address needs to fill in an odd number, add 00 before the odd number, such as 005);
- Exit keyboard menu;
- Short press the "CAM LIST" button to open the camera list, use the joystick to select the added custom camera (IP control).



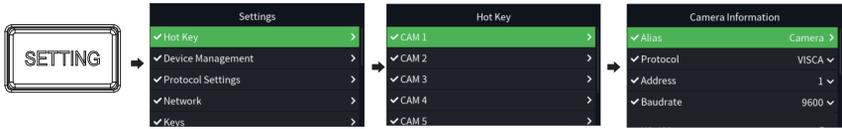
3. Edit camera list

- Click "SETTING" to enter the menu, select "Device Management" column, select "Device List"
- It can edit the devices added to the camera list from the "search list" and "add list";
(You can edit camera name, protocol (ONVIF and NDI device list does not allow manual selection), IP address, compatibility mode, video stream address, delete device, ONVIF device settings can also edit user name and password)

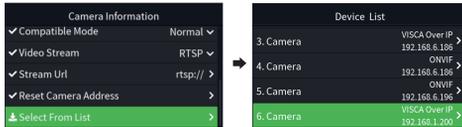


Edit hot key

- Click "SETTING" to enter the menu, select the "Hot Key" column, you can edit 7 hot keys, take the hot key CAM1 as an example, you can manually modify the device parameters;



- You can select the "Select from List" column to select a device from the "Device List"; The devices from "SEARCH", can be added to shortcuts through "add to shortcut".



- On the main page, when you have selected the hot key, press and hold for three seconds to quickly enter the hot key device editing, which is equivalent to the hot key device information editing in the menu.

Interact with the camera

- Click "CAM LIST" to open the device list, and then select the device through the joystick
- or "FOCUS" knob;
Press the shortcut key "CAM1~CAM7" to select camera to be controlled;
(When it's VISCA protocol, there are multiple cameras, in protocol for VISCA shortcut editing, click "Reset Camera Address" to assign the address).

Camera menu control

1. Set camera OSD menu

- Press the "CAM MENU" button to send a command to open the camera OSD menu;
- Use the joystick to navigate the menu;
 - a. Move the joystick up and down to browse the menu options;
 - b. Move left and right to adjust the value;
 - c. Press the top button of the joystick to send the "ENTER" command.

Camera control

1. Manual movement

- Horizontal, vertical and zoom can be executed simultaneously;
- Joystick can be used to move horizontally and vertically in any direction;
- The joystick can quickly return the gimbal and lens to the initial position through the top button;
- "PT/Z SPEED", knob to adjust the pan, tilt, zoom's speed level;
- Rotate the rocker to adjust Zoom In/Out.

Camera control

2. Set, recall and delete preset position

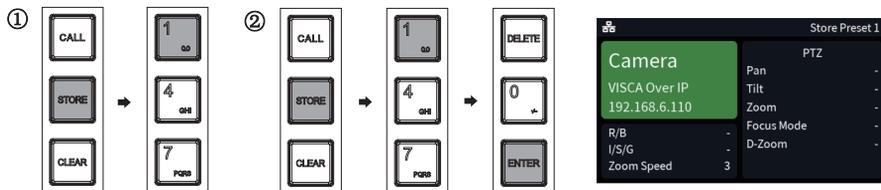
● set preset position

a. Move the camera to the desired position;

b. ① The preset position mode is 10: first press the "STORE" key, and then press the number "1" key to set the No. 1 preset position;

② The preset position mode is 255: first press the "STORE" key, and then press the number "1" key, and then press the "ENTER" key to set the No. 1 preset position;

c. The upper right corner of the keyboard screen displays "Save Preset 1";

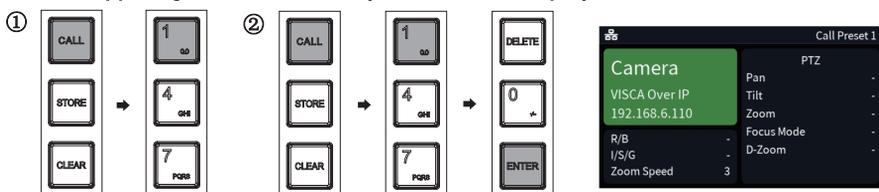


● Call preset

a. ① The preset position mode is 10: first press the "CALL" key, and then press the number "1" key to call the No. 1 preset position;

② The preset position mode is 255: first press the "CALL" key, then press the number "1" key, and then press the "ENTER" key to call the No. 1 preset position;

b. The upper right corner of the keyboard screen displays "Recall Preset 1";

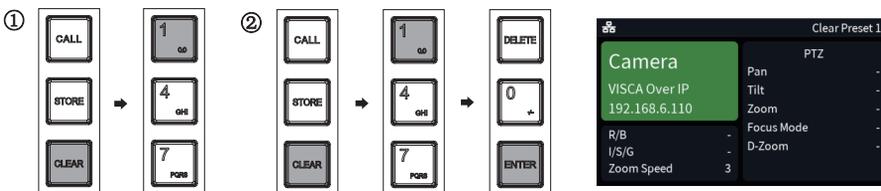


● Delete preset

a. ① The preset position mode is 10: first press the "CLEAR" key, and then press the number "1" key to delete the No. 1 preset position;

② The preset position mode is 255: first press the "CLEAR" key, then press the number "1" key, and then press the "ENTER" key to delete the No. 1 preset position;

b. The upper right corner of the keyboard screen displays "Delete Preset 1".



Camera control

3.Adjust image parameters

Use the image adjustment panel to set or adjust image parameters (only applicable to VISCA and VISCA_IP protocols, PELCO /ONVIF/NDI protocol image adjustment function is incomplete);

Backlight compensation

- Turn on/off the camera's backlight compensation via the "BACK LIGHT" button;

Exposure

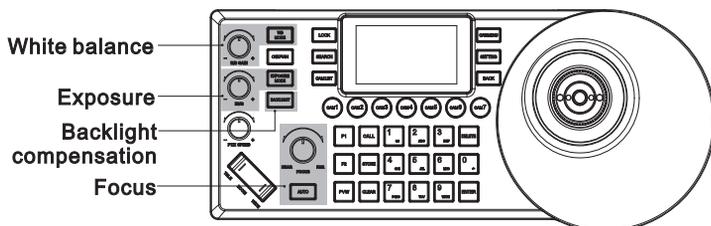
- The exposure mode can be switched through the "EXPOSURE MODE" button;
- Adjust the parameter value in each mode by rotating the "I/S/G +/-" knob;
- Parameter switching in the same mode, click the "I/S/G +/-" knob to switch (aperture, shutter, gain);

White balance

- Switch the white balance mode by using the "WB MODE" button;
- By clicking the "R/B GAIN +/-" knob, switch the red/blue gain value parameter adjustment;

Focus

- Adjust focus manually through "FOCUS" knob, one click to trigger focus;
- Automatic adjustment by using the AUTO button.



WEB Backstage Management

1.Connection Ways

Direct connection mode: connect the controller directly to the computer with a network cable.

Network connection mode: connect the controller to the Internet network, and access the network through a router or switch. Users can log in to the device through the browser.

The computer must have the network segment where the controller IP is located. If the network segment is not added, you will not be able to log in. If the default IP address of the controller is 192.168.1.119, you need to add 1 network segment to the computer. The specific method is as follows :

Firstly open the computer network local connection properties window, select “Internet Protocol Version 4 (TCP/IPv4)” double click or click the property “Internet Protocol Version 4 (TCP/IPv4)” enter the properties window, click “Advanced” to enter advanced TCP/IP Set the IP address and subnet mask in the IP address field. After the addition is completed, click OK to complete the IP network segment addition. Users can add corresponding network segments according to the modified controller IP address.

2.WEB Login In

WEB login:

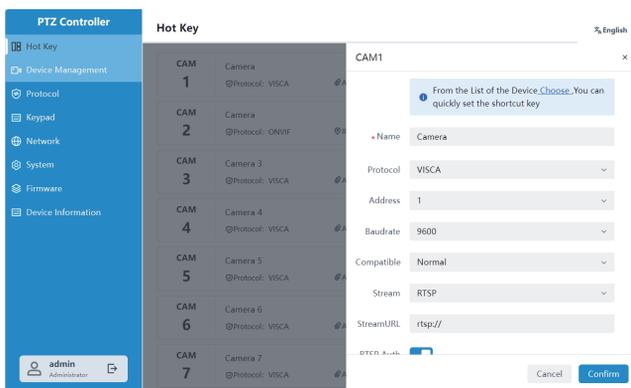
Enter the device IP address in the browser address bar to default to 192.168.1.119, and press Enter to enter the web client login interface. Enter “admin” in the [Username] field, “admin” in the [Password] field, and pass the verification to enter the background preview interface.

Language selection: The selected language can be displayed at the bottom of the login interface.

3.WEB Backstage Management

The below is WEB Backstage Management interface after login in.

(1): Shortcuts: edit device's information of controller's CAM1~CAM7



WEB Backstage Management

(2): Device management: edit controller's "device list" and "backlist"

Number	name	Protocol	IP Address
1	Camera	ONVIF	192.168.1.118
2	Camera	VISCA Over Ip	192.168.1.118
3	NDI PTZ CAMERA (NDI Stream-192.168.1.118)	NDI	192.168.1.118

(3): Protocol: authorize controller's NDI protocols and manage URL suffix of RTSP's up streaming

NDI

Authorization: Authorized

Group: public

RTSP

URL Suffixes:

(4): Buttons: edit information about custom commands of buttons F1, F2, PVW

F1

Feature: Custom Commands

VISCA: Command 1

Name: Cmd 1

CMD: Please enter instructions, for example: 81 01 06 C

WEB Backstage Management

(5): Network: set up controller's network

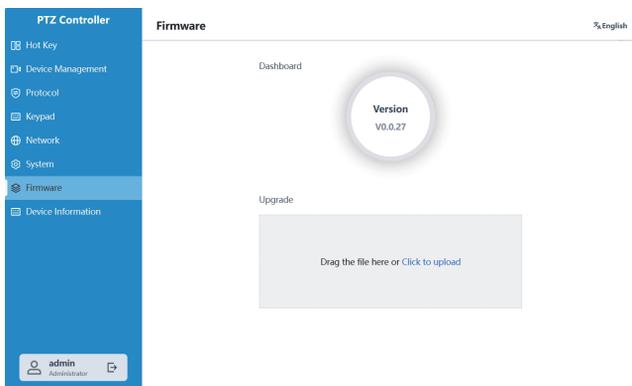
The image displays two screenshots of the 'Network' configuration page in the 'Camera Control Panel'. The left sidebar contains a menu with options: Hot Key, Device Management, Protocol, Keypad, Network (selected), System, Firmware, and Device Information. The user is logged in as 'admin Administrator'. The main content area is titled 'Network' and includes a language selector for 'English'. The configuration is divided into several sections: 'DHCP' (with a toggle switch), 'IP Address' (192.168.1.119), 'Mask' (255.255.255.0), 'Gateway' (192.168.1.1), 'DNS1', and 'DNS2'. An 'Advanced' button is located below these fields. The 'EXT IP1' section has an 'Enable' toggle switch. The 'EXT IP2' section also has an 'Enable' toggle switch. Both 'EXT IP1' and 'EXT IP2' have 'IP Address' and 'Mask' fields set to 0.0.0.0. 'Confirm' buttons are present at the bottom of each section.

(6): System: import or export configuration files and log in account management

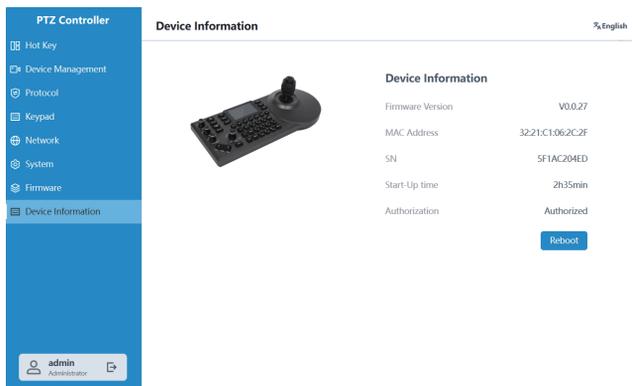
The image shows the 'System' configuration page in the 'Camera Control Panel'. The left sidebar menu is the same as in the previous screenshots, with 'System' now selected. The main content area is titled 'System' and includes a language selector for 'English'. There are two tabs: 'Configuration File' (active) and 'User Management'. Below the tabs are two buttons: 'Import' and 'Export'.

WEB Backstage Management

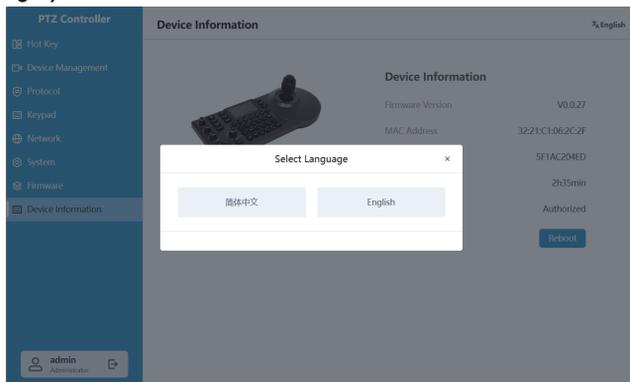
(7): Hardware upgrade: upgrade controller



(8): Device information: for checking controller's basic information and rebooting device



(9): Languages volume: switch languages (synchronize controller's language after switched language.)



Specifications

Keyboard Parameters	
Joystick	4D precision Joystick
Knobs	3D knobs, support scale rotation to adjust parameters, support button function to select mode
Buttons	High-Quality silicone buttons, support white and red two-color backlight
Screen	3"LCD colordisplay
Shortcut Button	Support 7 camera shortcut button settings
Button Prompt Tone	Button sound prompt On/Off
Lock Button	Support one-key lock function
Max.Control Quantity	1000
Max.Preset Position	255
Customizable Buttons	Support three buttons to customize
Control	
Control Interface	RJ45(support POE and NDI HX2)、RS-232、RS-422/485
IP Control Protocol	Onvif、VISCA Over IP、VISCA TCP、NDI
Serial Port Protocol	VISCA、Pelco D、Pelco P
Power Supply	
Input Voltage	12V
Input Current	0.25A
POE	802.3af
Rated Power	3W
Other	
HDMI Interface	External display device
Tally	Support up to seven channels
Operatng Environment	Indoor
Operating Temperature	-10℃-40℃
Storage Temperature	-20℃-60℃
Dimensions	332*136*58mm(Joystick height is not included)
	332*136*116mm(Joystick height is included)
Weight	About 1.0 kg