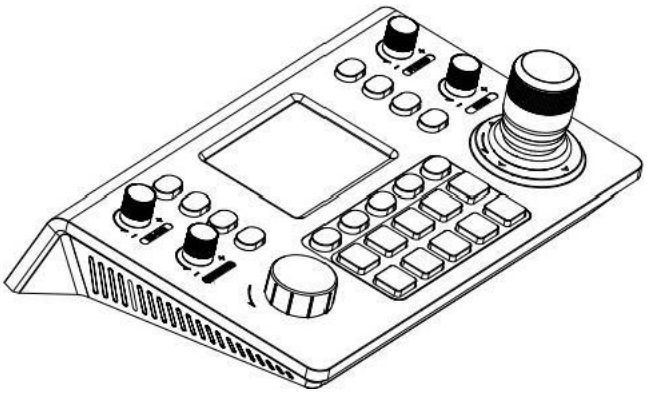
RGBBKT

Decoding Conference Control Keyboard



RGBlink®

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Thank you for choosing our product!
This User Manual is designed to show you how to use this product quickly and make use of all the features. Please read all directions and instructions carefully before using this product.

Declarations

FCC/Warranty

Federal Communications Commission (FCC) Statement

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area may cause harmful interference, in which case the user will be responsible for correcting any interference.

Guarantee and Compensation

RGBlink provides a guarantee relating to perfect manufacturing as part of the legally stipulated terms of guarantee. On receipt, the purchaser must immediately inspect all delivered goods for damage incurred during transport, as well as for material and manufacturing faults. RGBlink must be informed immediately in writing of any complains.
The period of guarantee begins on the date of transfer of risks, in the case of special systems and software on the date of commissioning, at latest 30 days after the transfer of risks. In the event of justified notice of compliant, RGBlink can repair the fault or provide a replacement at its own discretion within an appropriate period. If this measure proves to be impossible or unsuccessful, the purchaser can demand a reduction in the purchase price or cancellation of the contract. All other claims, in particular those relating to compensation for direct or indirect damage, and also damage attributed to the operation of software as well as to other service provided by RGBlink, being a component of the system or independent service, will be deemed invalid provided the damage is not proven to be attributed to the absence of properties guaranteed in writing or due to the intent or gross negligence or part of RGBlink.
If the purchaser or a third party carries out modifications or repairs on goods delivered by RGBlink, or if the goods are handled incorrectly, in particular if the systems are commissioned operated incorrectly or if, after the transfer of risks, the goods are subject to influences not agreed upon in the contract, all guarantee claims of the purchaser will be rendered invalid. Not included in the guarantee coverage are system failures which are attributed to programs or special electronic circuitry provided by the purchaser, e.g. interfaces. Normal wear as well as normal maintenance are not subject to the guarantee provided by RGBlink either.
The environmental conditions as well as the servicing and maintenance regulations specified in this manual must be complied with by the customer.

Operators Safety Summary

The general safety information in this summary is for operating personnel.

Do Not Remove Covers or Panels

There are no user-serviceable parts within the unit. Removal of the top cover will expose dangerous voltages. To avoid personal injury, do not remove the top cover. Do not operate the unit without the cover installed.

Power Source

This product is intended to operate from a power source that will not apply more than 230 volts rms between the supply conductors or between both supply conductor and ground. A protective

ground connection by way of grounding conductor in the power cord is essential for safe operation.

Grounding the Product

This product is grounded through the grounding conductor of the power cord. To avoid electrical shock, plug the power cord into a properly wired receptacle before connecting to the product input or output terminals. A protective-ground connection by way of the grounding conductor in the power cord is essential for safe operation.

Use the Proper Power Cord

Use only the power cord and connector specified for your product. Use only a power cord that is in good condition. Refer cord and connector changes to qualified service personnel.

Use the Proper Fuse

To avoid fire hazard, use only the fuse having identical type, voltage rating, and current rating characteristics. Refer fuse replacement to qualified service personnel.

Do Not Operate in Explosive Atmospheres

To avoid explosion, do not operate this product in an explosive atmosphere.

Installation Safety Summary

Safety Precautions

For all product installation procedures, please observe the following important safety and handling rules to avoid damage to yourself and the equipment.
To protect users from electric shock, ensure that the chassis connects to earth via the ground wire provided in the AC power Cord.
The AC Socket-outlet should be installed near the equipment and be easily accessible.

Unpacking and Inspection

Before opening product shipping box, inspect it for damage. If you find any damage, notify the shipping carrier immediately for all claims adjustments. As you open the box, compare its contents against the packing slip. If you find any shortages, contact your sales representative. Once you have removed all the components from their packaging and checked that all the listed components are present, visually inspect the system to ensure there was no damage during shipping. If there is damage, notify the shipping carrier immediately for all claims adjustments.

Site Preparation

The environment in which you install your product should be clean, properly lit, free from static, and have adequate power, ventilation, and space for all components.

Chapter 1 Product Overview

1.1 Overview

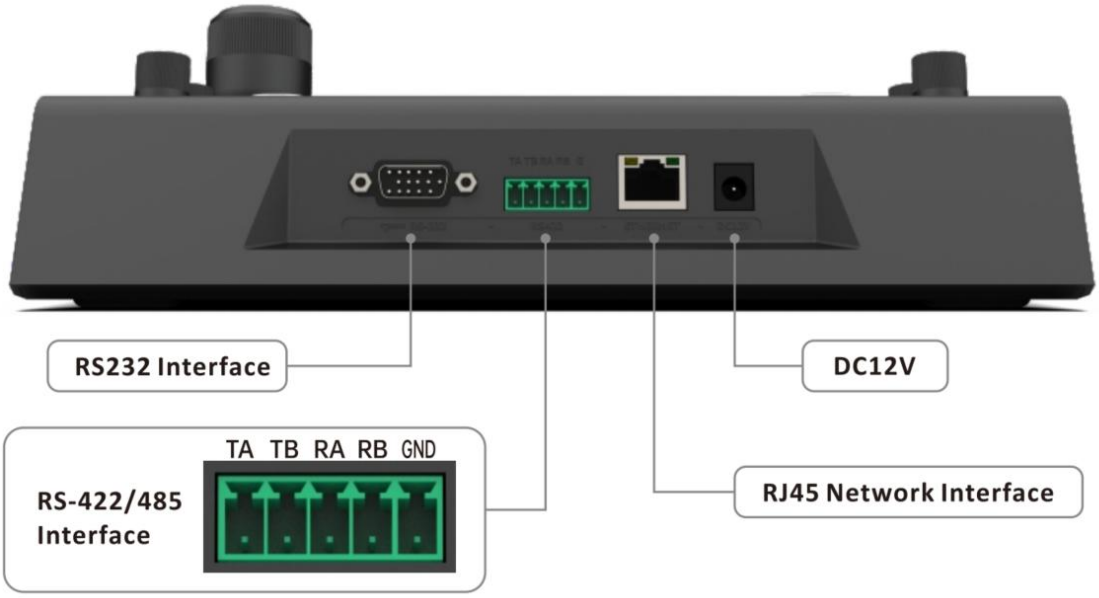
The decoding control keyboard is an advanced control device specifically designed for conference camera control.Its innovative appearance and precise structure offer users a friendly operating experience while ensuring high reliability and stability.The control keyboard is equipped with newly designed 3D joysticks and multiple knob sets to achieve precise control over various conference camera parameters.Additionally,it supports decoding functionality,enabling broader application scenarios and device compatibility.

1.2 Key Features

- Powerful decoding capability with broad compatibility for various cameras, offering flexible application.
- Redesigned with an intuitive layout for user-friendly and easy operation.
- Precision-engineered structure with excellent craftsmanship ensures stability, durability, and high performance.
- Flexible and accurate 3D joystick allows easy adjustment of camera direction and angle for diverse shooting effects.
- Multiple knobs enable independent and precise control of focus, iris, zoom, and other parameters to meet different shooting scenarios.
- Automatically discovers and supports all IP cameras within the network.
- Multiple controllers can operate simultaneously on the same network, with a single device supporting up to 255 cameras.
- Features a compact 3D joystick that reduces size by 50% while retaining full functionality.
- Supports PoE (Power over Ethernet) for simplified cabling.
- Provides precise adjustment of camera parameters including aperture, exposure, white balance, and focus.
- Web interface compatible with major browsers like Chrome and Edge for easy device and camera list configuration.
- Supports dual-mode operation including network decoding and analog control, enabling seamless integration and management of both IP and traditional analog cameras for comprehensive coverage in various scenarios.
- Supports network protocols including ONVIF, VISCA over IP (UDP/TCP), Sony VISCA, and NDI, as well as analog protocols such as VISCA, PELCO-D, and PELCO-P. Offers serial control function allowing simultaneous and independent control of network and analog cameras without mode switching.

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1.3 Interface Description



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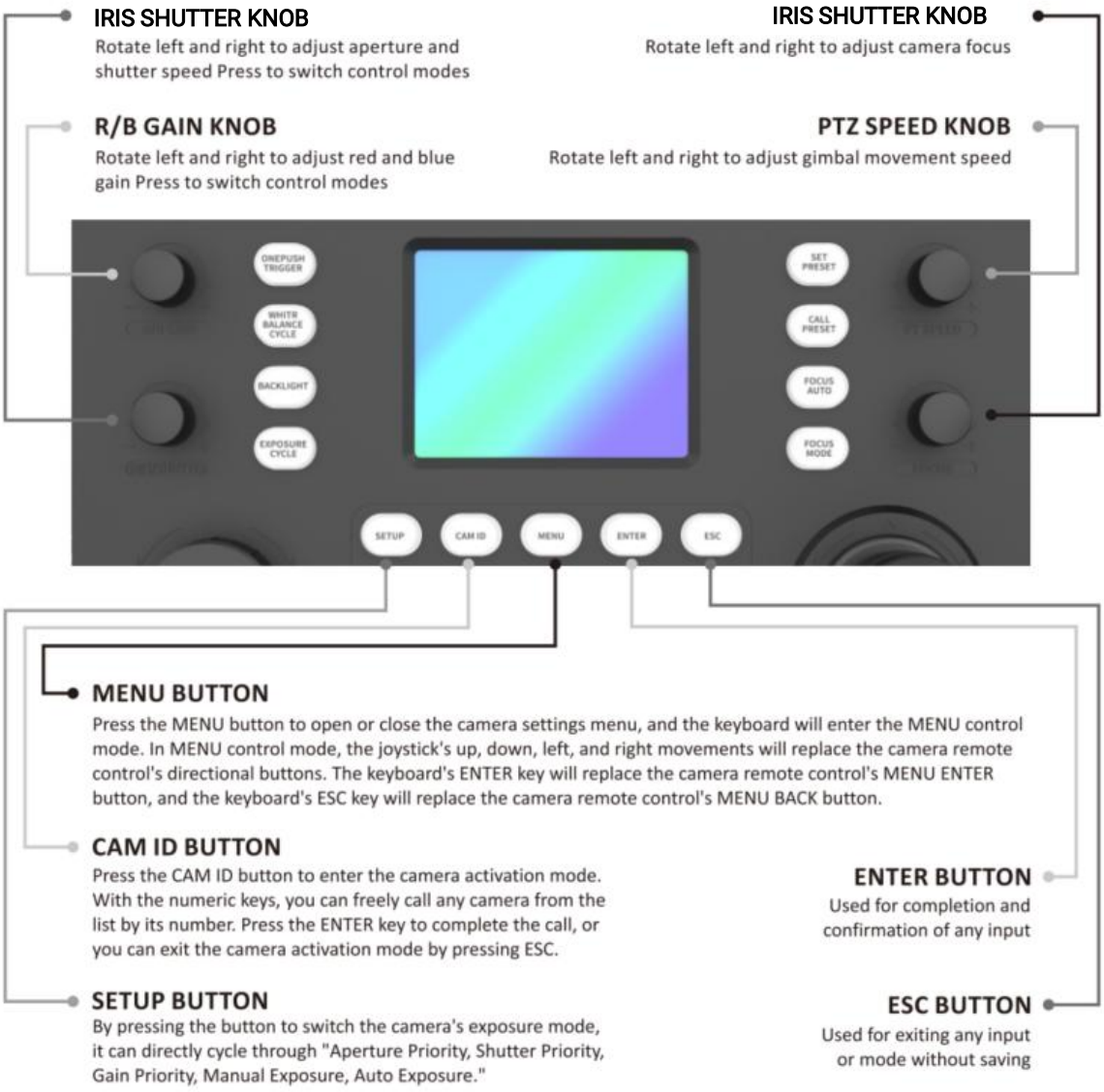
Chapter 2 Button Function Description

2.1 Camera function area

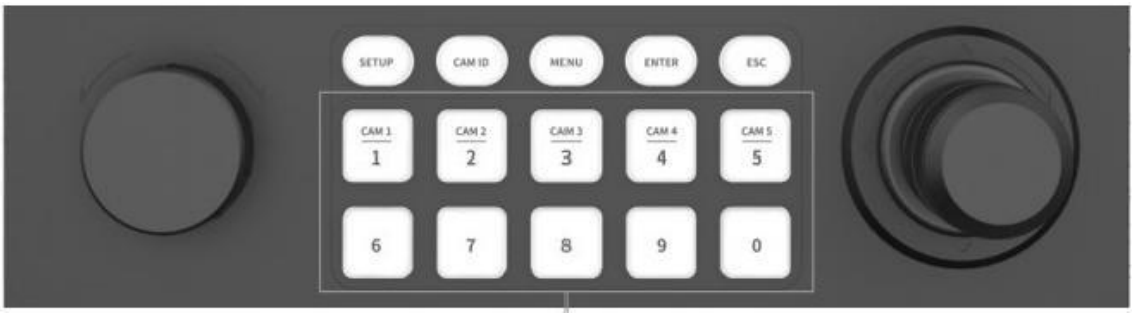


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2.2 Knob Function Area



2.3 Numeric Keypad Area

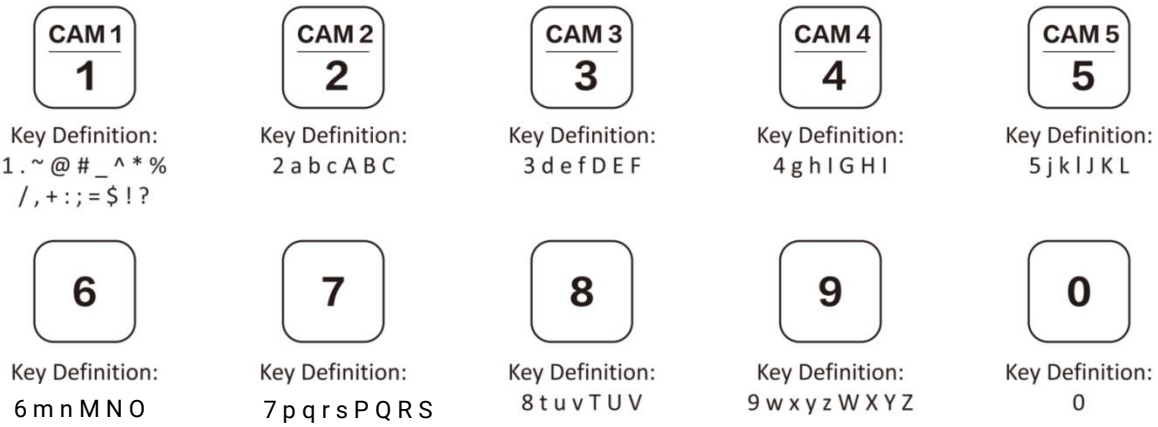


Numeric Keypad Area
The numeric key area features multiple functional modes, activating specific functions based on the current scene of the keyboard.

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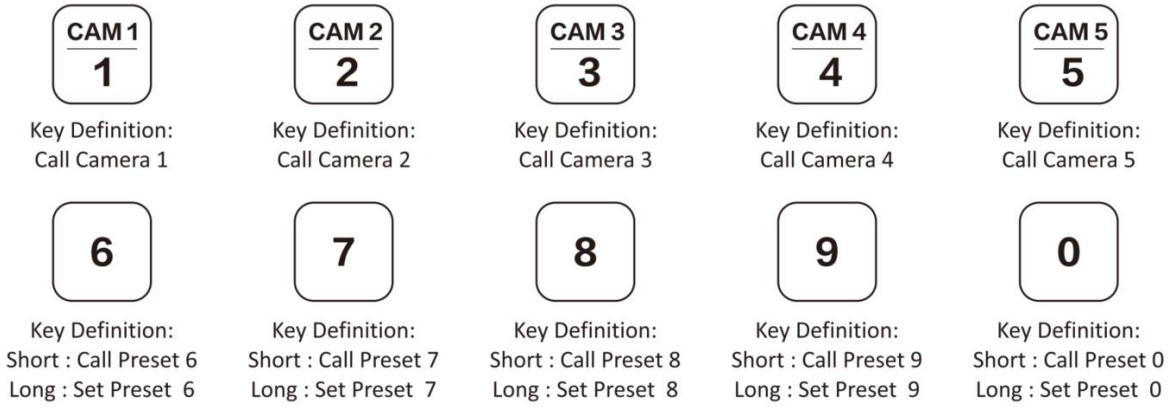
Mode One: Multi-Character Input Mode

When searching for or manually adding a camera, certain protocols (e.g., Onvif) or some cameras require account and password verification. In this case, the numeric key area on the control keyboard can facilitate inputs of digits 1-9, full uppercase and lowercase letters, and some simple characters. Below are the characters and letters corresponding to each numeric key, where quickly pressing the same numeric key allows it to cycle through the available input list.



Mode Two: Quick Camera Switching/Quick Preset Recall Mode

When in the preview page and playing/controlling the camera, you can quickly switch to cameras numbered 1-5 using the digital keys 1-5. Additionally, you can set preset positions for numbered 6-9 by pressing the digital keys 6-9. A short press recalls the corresponding preset position, while a long press sets the corresponding preset position.



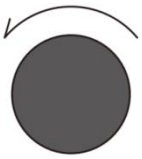
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2.4 Zoom knob and joystick

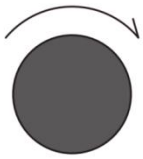


Zoom knob

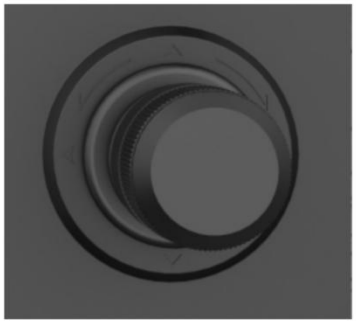
Enabled in preview mode to control the zoom levels of the camera lens.



Rotate right:
Zoom level increases.



Rotate right:
Zoom level increases.



3-dimensional joystick

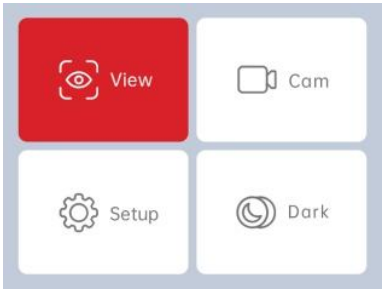
Operation	Output control	Operation	Output control	Operation	Output control
	UP		Down		Left
Operation	**Output control**	**Operation**	**Output control**	**Operation**	**Output control**
	Right		Zoom+		Zoom-

Joystick [up, down, left, right]: controls the pan tilt to rotate up, down, left, right

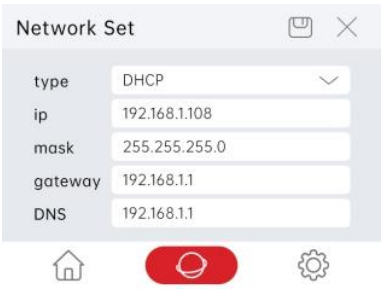
Joystick [Left and Right Rotation]: Rotate the joystick to zoom in. Rotate it to the right to zoom in + and to the left to zoom out -.

Chapter 3 Use Your Product

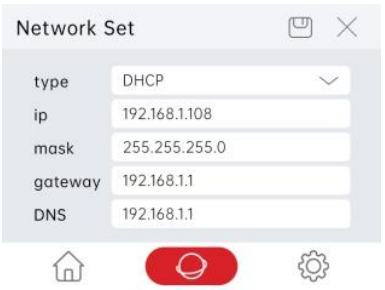
3.1 Modify controller network status &IP address



Step 1
After turning on the device and entering the home screen, toggle the joystick down to switch to the Settings option. To enter the Settings page, you can press the ENTER button or press the joystick.



Step 2
After entering the settings page, the system will automatically redirect to the network settings page. On this page, you can configure parameters such as network mode, IP address, gateway, subnet mask, and DNS for the device. Once the settings are complete, move to the save button in the top right corner and click to confirm, which will save the current network parameters. During the saving process, the device may restart or exhibit other behaviors. When the device returns to the main page, it indicates that the network parameter configuration is complete.



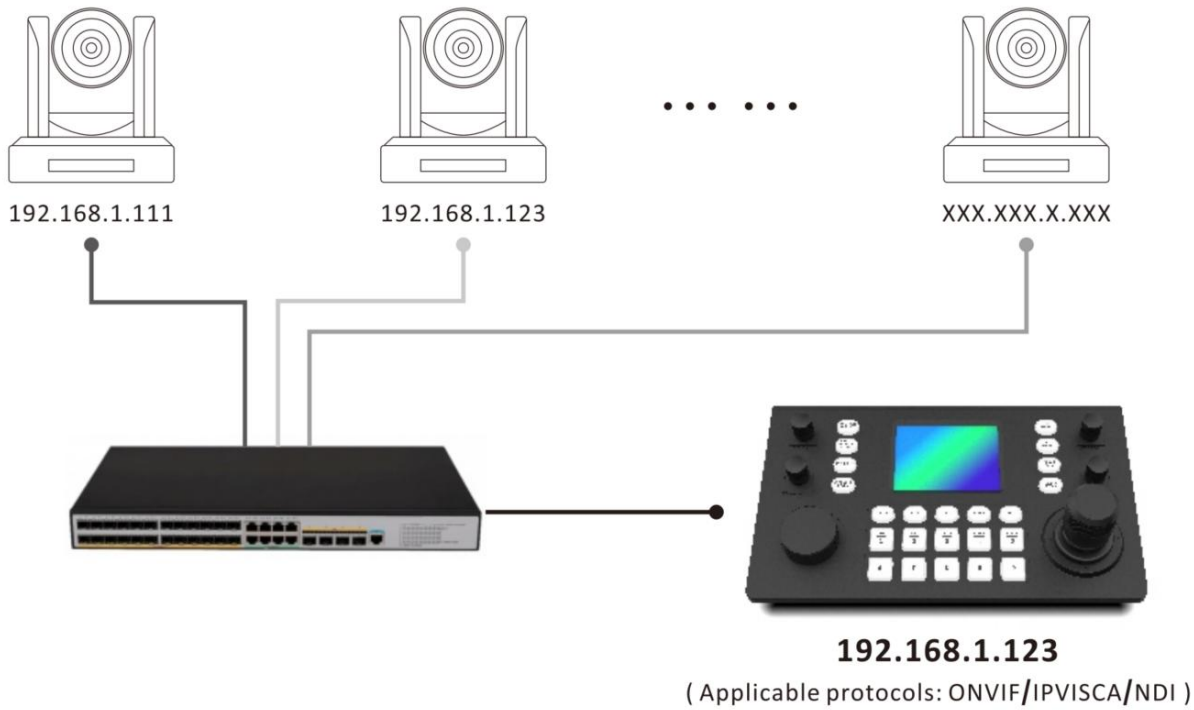
Note:
When the device starts for the first time in a no network environment or without an upstream router in a local area network,it will automatically set the network mode to static,with the IP address as 192.168.5.180.

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3.2 Establishing a Camera Network Environment

The keyboard and the PTZ camera must be connected to the same local area network, ensuring that the IP addresses are in the same subnet, such as 192.168.1.123 and 192.168.1.111. If they are not in the same local network, you will need to modify the IP address of either the keyboard or the camera. The default IP acquisition method for the keyboard is dynamic.

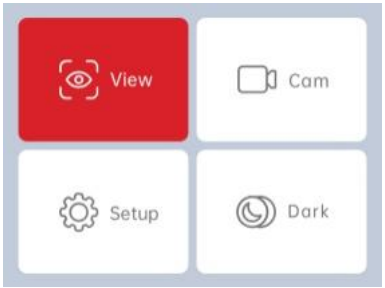
>Network Connection Diagram



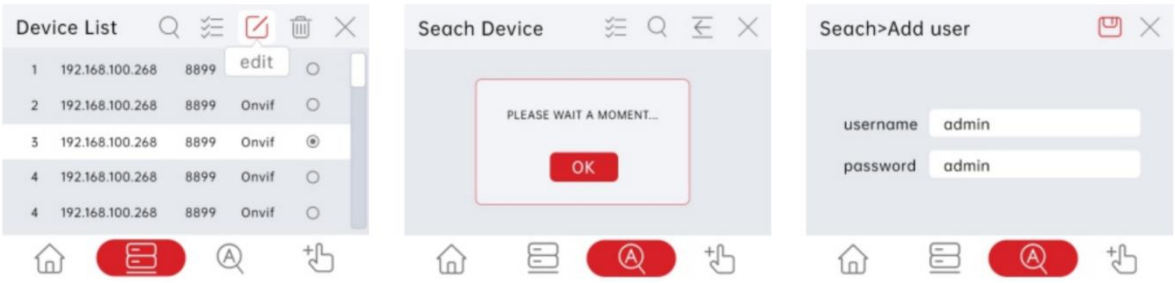
3.3 Add network camera via search.

Step 1

After turning on the device and entering the home screen, toggle the joystick down to switch to the Settings option. To enter the Settings page, you can press the ENTER button or press the joystick.



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Step 2
After entering the device list page, the system will display the list of added devices. At the bottom of this page, you can switch pages; toggle to the right to access the search page. Then, move the joystick upward to position the indicator box over the search icon and click ENTER to start searching for cameras in the current network environment.

Step 3
After the search is complete, the device will list the found cameras in a list format. Select the IPs of the cameras you wish to add, then move to the top to choose the add button and confirm. Once confirmed, an add confirmation prompt will appear. For ONVIF protocol cameras, you will need to enter the username and password for authentication to preview and control them.

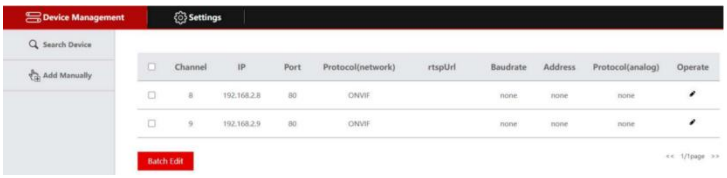
3.4 Home Page Connection and Login

Ensure that the computer and the controller are properly connected within the same network environment. After the controller finishes booting, it will display the IP address: 192.168.x.xxx in the network settings. Enter this IP address into the browser to access the configuration page. The initial username is: admin; password: empty.

A.
Connect the keyboard and the computer to the same local area network, then enter the keyboard's IP address in the browser.



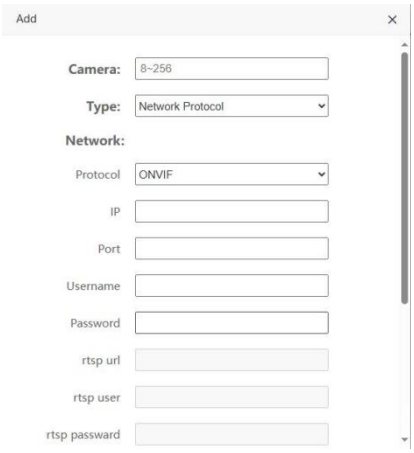
B.
After accessing the device's web client, the page will display as shown in the right image.



C. After entering the device homepage, you can view and modify the device's parameter details.

D. Click the " " button to add and edit device parameters within the local area network.

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(Enter the device number, corresponding IP address, port number, and username, then click save.)

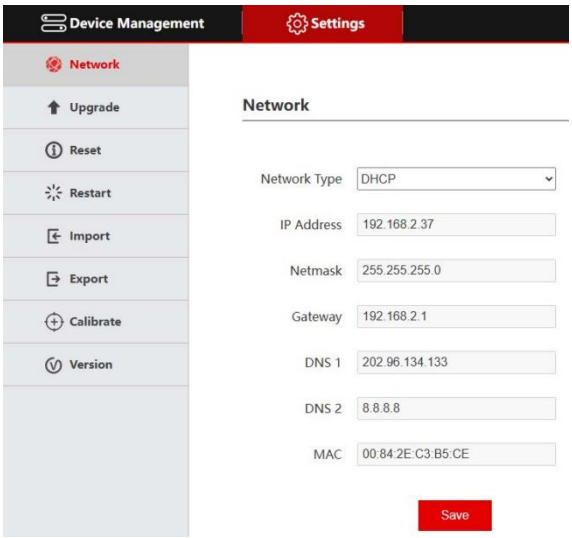
Note:
Once the device is successfully added in the keyboard web interface and synchronized with the controller, you can click the corresponding keyboard number to control the camera.

3.5 Web-based Network Settings

The LAN settings allow for modifications to the device's IP acquisition method and port parameters, as illustrated in the image below:

Static Address (STATIC):
When users need to manually configure the subnet, they should change the network type to static address and enter the required subnet information.

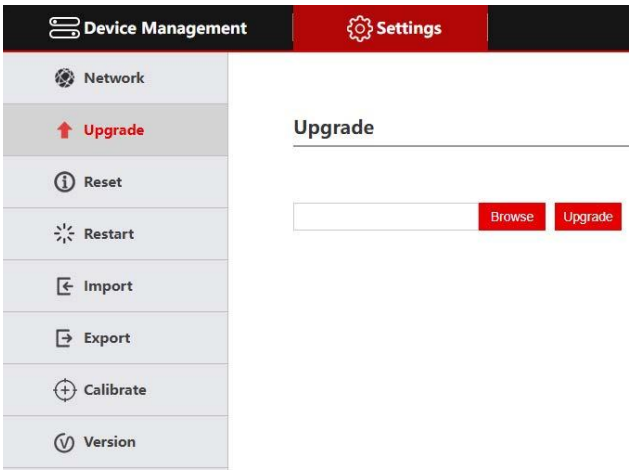
Dynamic Address (DHCP)
(default acquisition method):
The keyboard will automatically request an IP address from the router, and upon successful request, it will be displayed on the keyboard's screen in the format: "Local IP: XXX.XXX.XXX.XXX."



3.6 System Upgrade

The upgrade feature is used for maintaining and updating keyboard functionality. After entering the upgrade page, select the correct upgrade file and click "Start." Once the upgrade is complete, the device will automatically restart.

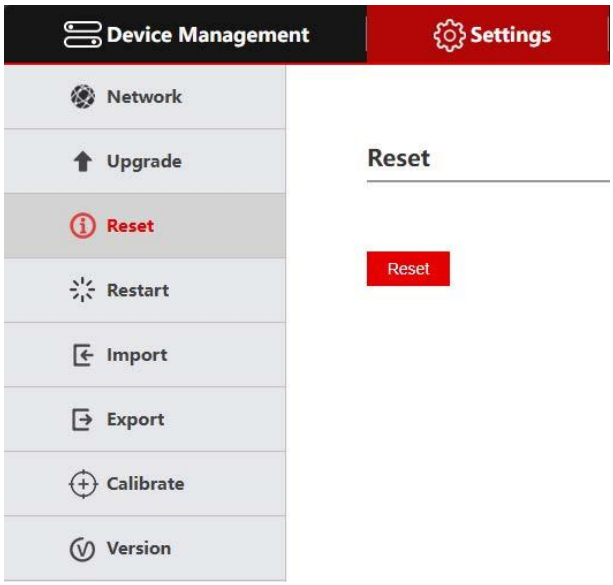
Note:
Do not perform any operations on the device during the upgrade process; do not turn off power or disconnect the network!



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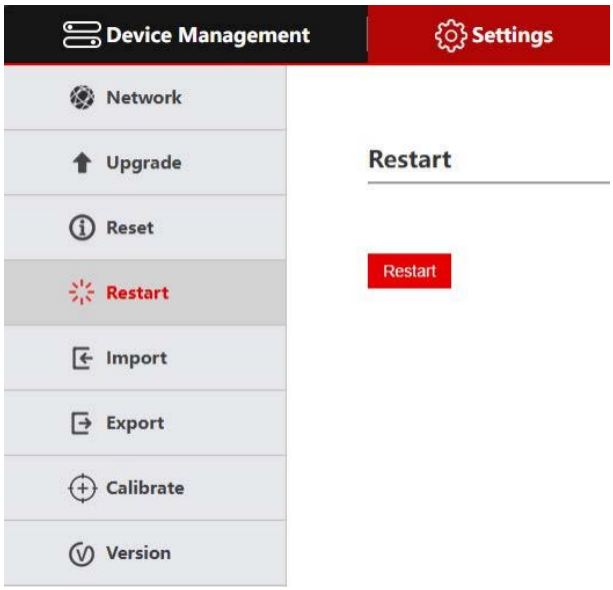
3.7 System Initialization

Clicking the device reset will delete the configuration information and remove added devices.



3.8 Device reboot

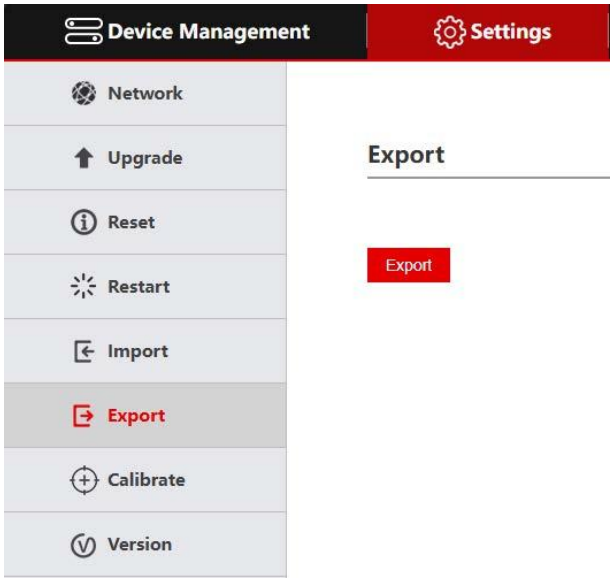
When the device needs to be restarted for maintenance after extended operation, clicking "Restart" will accomplish the maintenance reboot.



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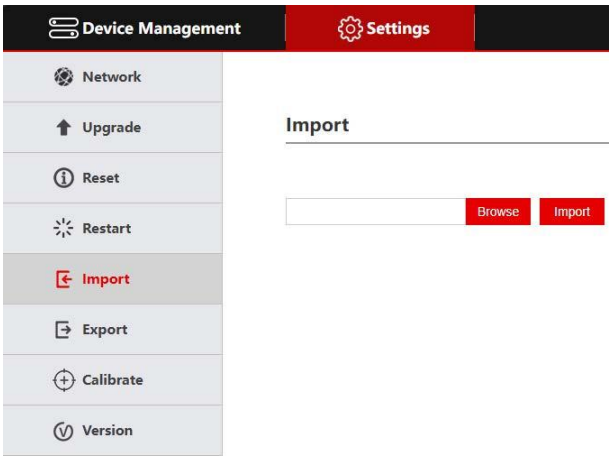
3.9 Export configuration

Export the relevant information for the current keyboard adding multiple devices, which can be used for other keyboard devices.



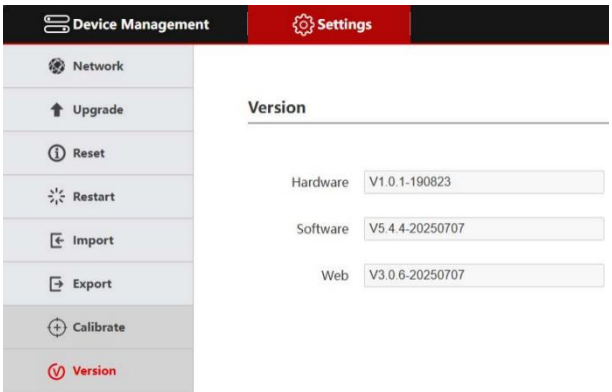
3.10 Import configuration

Import the device information from the previous keyboard. (For example, when the previous keyboard added multiple devices, the exported file type can be used for importing to another device when adding a new keyboard.)



3.11 Version information

Display the current hardware and software information of the keyboard.



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Chapter 4 FAQ

1. When the screen displays "Connection Failed,"please check if the device corresponding to this IP is properly connected to the local area network.
2. When the screen displays "Username or Password Incorrect,"please verify if the username and password for the added device are correct.
3. If adding devices from other brands with the ONVIF protocol fails,check if the camera has the ONVIF protocol enabled.

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Chapter 5 Appendix

5.1 Revision History

Format	Time	ECO#	Description	Principal
V1.0	2025-08-29	0000#	First Release	Alyssa

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