HD-IP Keyboard Controller User Manual

Overview

This network control keyboard is a powerful multifunctional network 3D operation keyboard, which is easy to operate, plug and play, and does not require any settings; with powerful hardware decoding function, it is the first in the industry to realize unlimited access to IP speed dome cameras, suitable for large-scale safe city projects, and supports 5.0" LED LCD high-definition real-time display; supports HDMI output function, realizes synchronous switching between the main screen of the console and the control device screen (with built-in matrix switching function), and reduces engineering installation costs.

Supports ONVIF standard protocol, and it's not restricted by NVR, and has wide compatibility; it can realize PTZ tour, A-B scan, 360° scan and other functions;

Functional features:

1. Supports ONVIF, it's not restricted by the manufacturer, and easily realizes PTZ tour, A-B scan, 360° scan, plug and play without any settings, the controller automatically adds and assigns IP addresses;

2. Standard 3D control, supports 1-64 level speed limit function, precise positioning, and sensitive control;

3. Support multi-language switching;

4. Support USB and HDMI interface output, which can realize arbitrary switching of the main screen of the console; (with built-in matrix switching function)

5. Support 5.0" inch LED high-definition LCD display, control device image real-time display;

Technical indicators:

Product Name	HD-IP Controller Keyboard
Control Way	Network
Controllable Equipment	HD-IP Speed Dome Camera
LCD	5.0" inch HD LED
Port	1 RJ45, 1 RS485(reserved), 1 DC12V adapter port, 1HDMI output, 1 USB port
Working Temperature	-20°~55°
Power Supply	DC12V/2000MA
ONVIF	Support
Joystick	3D joystick
Language	Multi-language switching
Access Device No.	No upper limit （display by single image）
Image Switch Mode	Switch by sequence number or mouse
Product Size	260mm*160mm*48mm
Weight	Gross: 1.52KG / Net:1.0KG
Carton Size	300mm*210mm*160mm

Content

1. Interface and Function Key Introduction

1.1 Front Panel and Function Keys Introduction

Fig.1

1.2 Rear Panel Interface Introduction

Fig.2

①HDMI : available to connected to the monitor
②RJ45 : for LAN Power Switch
③USB interface :reserved
④Power indicator
⑤Input power : DC12V/2A

2. Function & Operation

2.1 Connection

Fig.3

As Fig.3 show, make sure the controller in the same LAN with the devices.

Note: The network controller defaults to the "1" network segment and can only be used within this network segment. If the network segments of the controller and the device are different, the device cannot be searched and added. You need to modify the keyboard IP or the camera IP address to match them.

2.2 Power On and Add Device

2.2.1 User Management

Log in
After power on 60s, the screen will display the log in interface as below:
Move the joystick downward, switch to "Password", and then press " Enter " key to enter the password input keyboard interface, and input the number keys to enter the password.
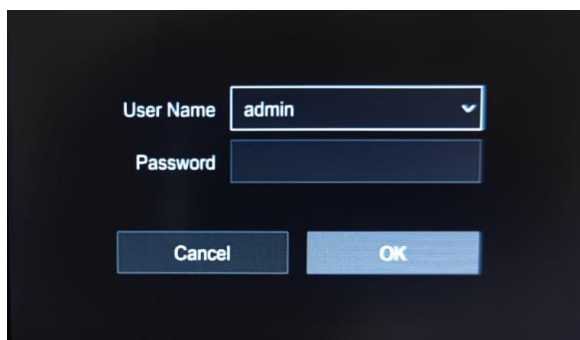

Fig.4
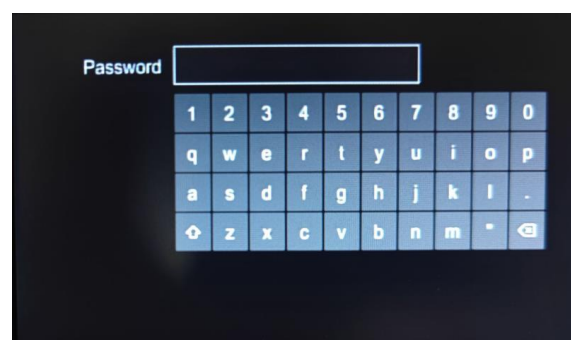

Fig.5

Default password is 12345, press " Menu "key after enter the password, then press " Enter "to confirm the log.

User management

press " Menu " key, enter the user options of the menu interface.
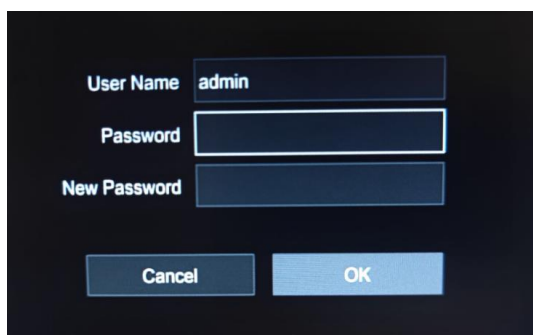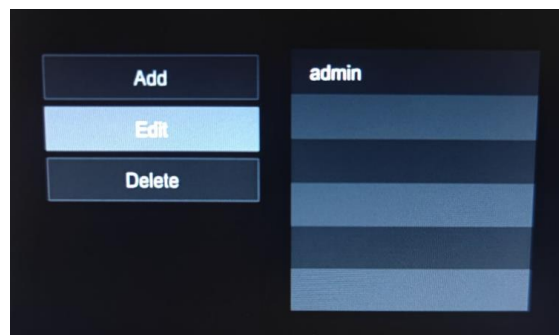

<table>
<tr><td>Fig.6</td><td>Fig.7</td></tr>
</table>

You can change the password, and support create operator and password.

Note: Usernames can only be added but not modified.

2.2.2 Automatic Search and Manually Add Device

Automatic Search

After logging in with the user name, press " Menu " and the menu interface will pop up automatically, as shown below:

When the cursor is on "Device", press the " Enter " key, select "Search Add" , press the " Enter " button, after the IP search is completed, the user can move the cursor up and down through the joystick; select the IP device to be connected, press the " Enter " button to save the device IP, and display the corresponding IP device image; when the screen device image is displayed normally, the PTZ control of camera can be realized.

<table>
<tr><td>Fig.8</td><td>Fig.9</td></tr>
</table>

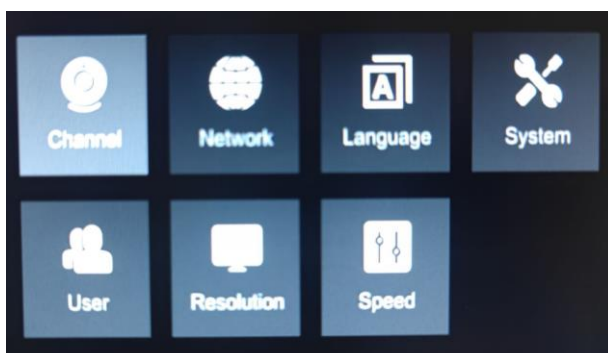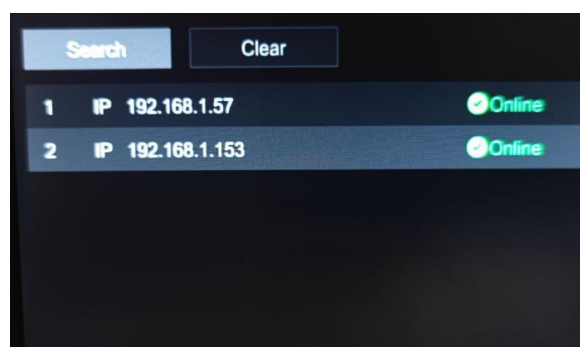Note:

1. This controller supports power-off memory function. If the controller is powered on again and the self-checking is completed, it will restore the IP image before power off.

2. When the camera is not powered on, this keyboard will also record the IP address that has been added before; if you do not need the offline IP address, you can choose to clear the list.

Manually Add Device

When connecting to the PTZ camera of other manufacturers, due to the restrictions of the port and the PTZ camera login password, there may be a phenomenon that the IP cannot be automatically added. In this case, the manual addition function is required. The operation method is as follows;

Click the "**Menu**" key on the network controller panel, and select "Device Management" ---- "Manual Add" to enter the following operation interface:
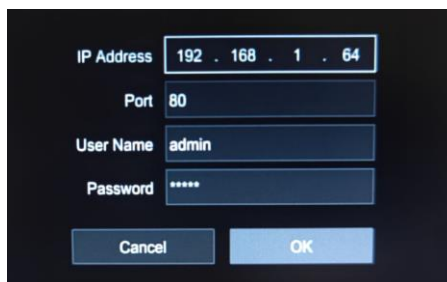

Fig.10

Enter the "IP Address, ONVIF Port, User Name, Password" to be added in the controller operation interface, and confirm to display and save the corresponding IP image;

Note:

1. Before manually adding an IP, you need to know the port and password of the added IP information;

2. You can add up to 100 devices manually. After the manual addition is completed, you can switch the corresponding device by the corresponding serial number before the IP;

2.3 PTZ Control and Image Switching

2.3.1 IP Channel Switching

As shown in Figure 9 above, user could switch camera by the corresponding camera ID which is on the left of IP address list. The specific operation is as follows:

1) Press the "**Addr**" key when the image is displayed normally

2) Input the number of corresponding camera ID

3) Press the "**Enter**" key;

Remark: Device switching is also available from " equipment management". Please select the corresponding IP address and press "Enter" to save to come true.

2.3.2 Joystick and Key Operation

On the right side of the controller, there is a three-dimensional vector joystick. The operator can flexibly control the constant speed by operating the joystick.

Direction control

The user can control the joystick to move left, right, up, down, upper left, lower left, upper right, and lower right by moving the joystick.

Zoom Operation

By rotating the 3D vector joystick to the right, you can perform the " PTZ Control" action, and vice versa, rotating it to the left will perform the   " PTZ Control" action;

Lens Control

There are 6 function keys in the middle area of the controller, FOCUS+, FOCUS-, ZOOM+, ZOOM-, IRIS+, IRIS-, Aux ON, Aux OFF. These keys are used to adjust the lens focus, zoom, aperture and joystick correction respectively.

Key Operation

【Focus+】/【Focus-】: Manual adjust focus value of zoom module to get clear image. (default of zoom module is auto-focus.)

【Zoom+】/【Zoom-】: zoom+/- get the ideal image.

【Iris+】【 Iris-】: Adjust the aperture to get brighter or darker image gradually. (Some zoom module is only with Auto Iris function)

【Setup】: [Setup]+number+[Enter] to set the preset point of the camera or set the short commands of the keyboard (See 2.5).

【Preset】: [Preset]+number+[Enter] to enable the preset point.

【Menu】: press to enter Menu or to Return back.

【Addr】: Address key, [Addr]+ID number+[Enter] to choose the corresponding IP address.

【0】~【9】: Number keys [0], [1], [2], [3], [4], [5], [6], [7], [8], [9].

【Clear】: Delete key, [Clear]+number+[Enter] to delete the preset point.

【Enter】: Confirm key, to confirm the present operation.

【Aux ON】: Aux ON.

【Aux OFF】: Aux OFF.

2.4 Preset Operation

Preset Description

The high-speed camera preset function means that the camera status (horizontal angle, vertical angle and lens parameters) information is stored and recorded, and can be called to quickly restore to the pre-set state.

2.4.1 Set Preset Operation Instructions

When the PTZ is rotated to the ideal monitoring position, first press the " Setup " key, then add the preset position number, such as:

Press " 1 ", then press the " Enter " key to complete the preset setting;

Note: ①When setting the preset, if the currently saved preset point is the same as the previously saved preset point, the current preset position will replace the previously set preset position parameters.

②The number of saved preset is not related with the controller, but mainly depends on the source front-end PTZ parameters.

2.4.2 Call Preset Instructions

Please make sure the setting preset is successful. Otherwise, call preset will not valid

1. Press " Preset " button ;

2. Input the preset number ;

3. Press " Enter " button. PTZ will automatically run to the preset point setting

2.4.3 Delete Preset

1. Press " Clear " button;

2. Input the preset point need to delete;

3. Press " Enter " to delete preset point.

2.5 Tour, A-B Scan

Tour, A-B scan and other functions are all realized by calling preset commands. For example, call

preset "98" to start tour function, user only needs to press " Preset ", then input "98", and the

PTZ will realize automatic tour between all preset points;
Enable A-B Scan and call preset "99"; A-B scan corresponds to preset 1 and 2 by default;

Shortcut commend

If camera supported shortcut commend, user can use the controller to call the shortcut
commend to enable the function easily.
The following are shortcut commends for the speed dome, please Press the Preset No. +Enter to
enable those function:

Preset No.	Function	Preset No.	Function
81	Auto Day/Night	84	Far Light
82	Switch to B/W	85	Near Light
83	Switch to Color	92	A-B Scan
98	Tour 1	97	Tour 2
96	Tour 3	99	Pan Scan

Remark: Different camera manufacturer may use different shortcut commend.

2.6 Language

This controller supports multiple language operation interfaces. Enter to the Main OSD and select

the Language you need, press the button " Enter " to confirm and save.
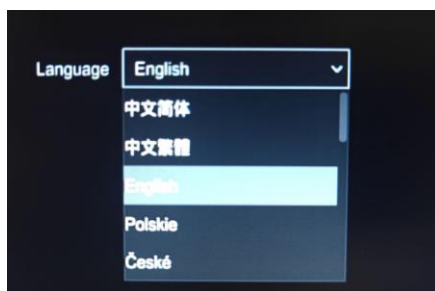As below picture show:

Fig.11

2.7 Main Stream and Sub Stream Switching

This controller with the 5" LED screen, supports both main Stream and sub-Stream display

Press "**Menu**"Enter to the Main OSD, find the "System" item and choose the "Main Stream" or

"Sub Stream", press "**Enter**"

2.8 Factory Default

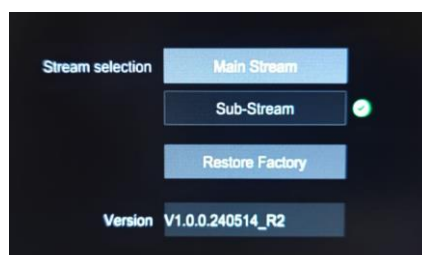To enable the factory default, user should enter "Menu", choose "System Setting", and press "Restore Factory"

Fig.10

2.9 IP Address

The Default IP address of controller is "192.168.1.188"
To be sure the controller and camera connected work properly, please make sure they are in the same network segment, but not same address. If they are used the same IP address, please change either the camera address or the controller address.
Changing the IP address of the Keyboard as following：

Press the button"**Menu**"enter to the OSD and then find the "Network"，input the IP address,

press the "**Enter**" to save. After that controller reboot, that means changing address is

successful.

3.0 Troubleshooting

Issue	Possible Reason	Solution
Can't add the Camera	IP address of the IP camera and controller is same	Change either IP address of keyboard or IP address of camera
Can't run the Tour	The command is inconsistent with dome connected	Check the dome manual, make sure the right commend to run tour.
Auto Reboot	Input power voltage is too low	Change the correct power supply
Get the IP address ,but can't add the Device	The cursor has been stuck in the search, when you add the device, the keyboard research again	Move the Cursor to the IP address and confirm to add
After Power on, the controller can not work,	1.Power supply used is not correct； 2.The controller is broken	1.Change a correct power supply 2. Contact your supplier for replacement.
Controlling is not sensitivity	Compatibility between controller and dome	Contact supplier to check the compatibility
No Image display, but can control.	The encode of Dome is higher than 1080P.	Change the main stream to sub Stream from the controller