V 1.0.0

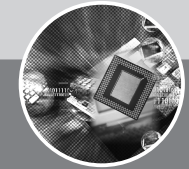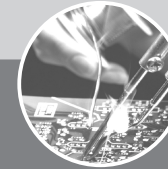# Network Keyboard

Network Keyboard

Quick Start Guide

1.2.51.32.12784-001

Preface

Overview

This document mainly introduces keyboard appearance, port and application method.

Symbol Definition

The following symbols may appear in the document. Please refer to the table below for the respective definition.

Symbol	Note
⚠ Danger	It indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
⚠ Warning	It indicates a moderate or low level of potential danger which, if not avoided, could result in minor or moderate injury.
⚠ Caution	It indicates a potential risk that, if ignored, could result in damage to device, loss of data, degraded performance, or unpredictable results.
⚠ Anti-static	It means electrostatic-sensitive device.
⚠ Protection again electric shock	It means high-voltage danger.
⚠ Laser radiation	It means intensive laser radiation.
⚿ Tip	It means that it can help you to solve some problems or save your time.
📖 Note	It means the additional information, which is the emphasis and supplement of the main body.

Important Safeguards and Warnings

The following description is the correct application method of the device. Please read the manual carefully before use, in order to prevent danger and property loss. Strictly conform to the manual during application and keep it properly after reading.

Operating Requirement

- Please don't place and install the device in an area exposed to direct sunlight or near heat generating device.
- Please don't install the device in a humid, dusty or fuliginous area.
- Please keep its horizontal installation, or install it at stable places, and prevent it from falling.
- Please don't drip or splash liquids onto the device; don't put on the device anything filled with liquids, in order to prevent liquids from flowing into the device.
- Please install the device at well–ventilated places; don't block its ventilation opening.
- Use the device only within rated input and output range.
- Please don't dismantle the device arbitrarily.
- Please transport, use and store the device within allowed humidity and temperature range.
- This device has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules and EMC Directive 2014/30/EU. Operation of this device in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Power Requirement

- Please make sure to use batteries according to requirements; otherwise, it may result in fire, explosion or burning risks of batteries!
- To replace batteries, only the same type of batteries can be used!
- The product shall use electric wires (power wires) recommended by this area, which shall be used within its rated specification!
- Please make sure to use standard power adapter matched with this device. Otherwise, the user shall undertake resulting personnel injuries or device damages.
- Please use power supply that meets SELV (safety extra low voltage) requirements, and supply power with rated voltage that conforms to Limited Power Source in IEC60950–1. For specific power supply requirements, please refer to device labels.
- Products with category I structure shall be connected to grid power output socket, which is equipped with protective grounding.
- Appliance coupler is a disconnecting device. During normal use, please keep an angle that facilitates operation.

Table of Contents

1 Appearance and Keys of Internet Keyboard

1.1 Product Appearance

Appearance of internet keyboard is shown in Figure 1-1. Please refer to Table 1-1 for details.

Figure 1-1

No.	Icon	Function
1	Power	Working power indicator light.
		Green light turns on when working power of internet keyboard is normal.
	Network	Network indicator light.
		Green light turns on when the keyboard is connected with network normally.
	Alarm	Alarm indicator light.
		Red light turns on in case of alarms.
2	⊕ / ⊖	Zoom in/zoom out PTZ lens.
	▣ / ▢	Increase/decrease the focus of PTZ lens.
	◌ / ◑	Increase/decrease the aperture of PTZ lens.
	◊	Shortcut key to control speed dome light.
	▱	Shortcut key to control speed dome wiper.
3	-	Touch screen, showing keyboard screen menu.
4	≡	Navigation bar.
	⌂	Homepage.
	↩	Return.
5	Fn	Function key. It is line scanning by default.
	Preset	PTZ control, preset point.
	Tour	PTZ control, tour between points.
	Aux	Auxiliary key. It is pattern by default.
6	-	Remote control lever, auxiliary menu and function operation.

Table 1-1

1.2 Key Module

After key module is connected with internet keyboard through USB or Bluetooth successfully, green light at the upper right corner will be on for 10s and then turn off. Schematic diagram of key module is shown in Figure 1−2. Please refer to Table 1−2 for details.

When key module is connected with internet keyboard through Bluetooth, please turn on main switch at the side of key module. In case of Bluetooth connection, default Wi−Fi network name is "KEYBOARD".

Figure 1−2

Key	Example	Function
F1	Press F1	Reserved.
F2	Press F2	Reserved.
F3	Press F3	Reserved.
F4	Press F4	Reserved.
Mode	Operation mode switch. It is operation mode at present.	Reserved.
0～9	Number 0～9	–
Screen	123+screen	Reserved.
Window	3+window	Focus on the 3rd window of present screen.
Split	4+split	Divide present screen into 4 splits.
⟨×	Press	Delete 1 digit from number buffer zone. The icon is similar to squares.
🎥 (Camera group)	123+🎥	Reserved.
📷(Camera)	567+📷	Drag no. 567 camera into present window. 📖 **Note** 0+camera means to turn off present video source.
Preset	2+preset	Call no. 2 preset point.
Tour	5+tour	Call no. 5 tour.
PTZ	–	In case of USB power supply, long press it to turn on and off the backlight.
Scan	3+scan	Call no. 3 scan.
Pattern	4+pattern	Call no. 4 pattern.
Rotate	Press	Press it once to start rotation, and press it again to stop rotation.
Exit	–	Reserved.

Key	Example	Function
Confirm	–	Snapshot function under preview module.
△ (Switch) previous channel	KEY_ previous channel	Present focus window channel reduces 1. The icon is similar to squares.
▽ (Next channel)	KEY_ next channel	Present focus window channel adds 1. The icon is similar to squares.
▶	Playback	Reserved.

Table 1−2

1.3 Port Introduction

1.3.1 Rear Panel Ports

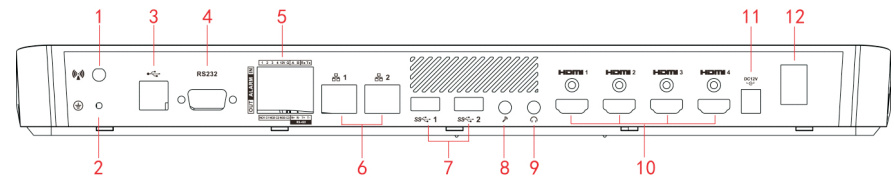Rear panel ports are shown in Figure 1−3. Please refer to Table 1−3 for details.

Figure 1−3

| No.	Name	Function
1	Wi−Fi port	Connect Wi−Fi antenna.
2	Grounding stud	Grounding.
3	USB2.0	Connect mouse and USB.
4	RS232	Connect serial port.
5	Alarm input/output port	Please refer to Table 1−4 for details.
6	Network port	Connect the network.
7	USB3.0	Connect mouse and USB.
8	Microphone	Connect microphone.
9	Earphone	Connect earphone.
10	HDMI1～HDMI4	Connect devices with HDMI port, such as display screen.
11	Power port	Connect power cord to supply power.
12	Power on−off key	Turn on and off the power supply.

Table 1−3
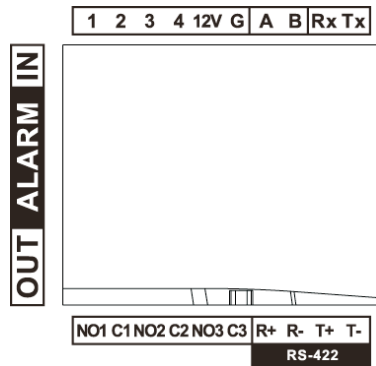
Figure 1-4

No.	Name
1～4	Alarm input port.
12V	DC 12V 1A power.
G	Grounding.
A, B	Connect PTZ.
Rx, Tx	RS-232 receiving and sending port.
NO1C1, NO2C2, NO3C3	3 groups of alarm output port.
R+, R-, T+, T-	RS-422 port.

Table 1-4

1.3.2 Side Panel Port

There are three keys on the side panel, including mute key, volume up key and volume down key.

2 Start and Shutdown

2.1 Start

Connect the power in accessories, turn on power on-off key, and start the internet keyboard. The system displays login interface after it is started successfully. Its interface can be operated with touch screen and external mouse.

2.2 Shutdown

Step 1 Shutdown.

- Method 1: Click 👤 at the upper right corner of main interface, select
  "Shutdown" and exit the system.
- Method 2: Press power on-off key on the rear panel.

Step 2 After exiting the system, unplug the power and turn off the device.

3 Quick Configuration

3.1 Login Interface

After starting, the system enters login interface.

Step 1 Enter password. Default password of the system is "admin" .

Step 2 Click "Login".

After successful login, the system enters main interface.

📖 **Note**

Please modify admin password timely after login.

3.2 Main Interface

Main interface consists of preview, TV wall, playback, platform, settings and extension, as shown in Figure 3-1.
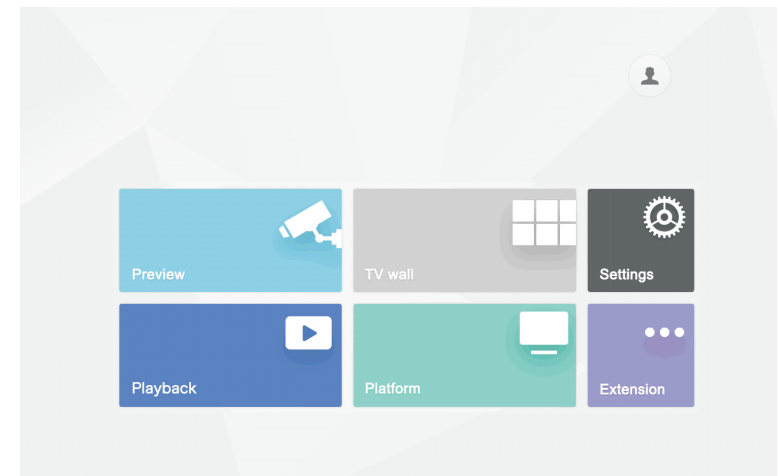
Figure 3-1

Please refer to Table 3-1 for details.

Name	Description
Preview	Preview local devices and corresponding operations.
TV wall	Control decoder/matrix/TV wall.
Playback	Play back videos in local recording device or USB disk.
Platform	After connecting with the platform, internet keyboard is able to control devices on the platform.
Settings	There are four modules, including device, general, account and system.
Extension	Control the devices with direct physical connection with internet keyboard. At present, it only supports to control speed dome with 485 port.

Table 3-1

3.3 Settings Interface

At the main interface, click "Settings" to enter "Settings" interface, as shown in Figure 3-2. Please refer to Table 3-2 for functional descriptions.
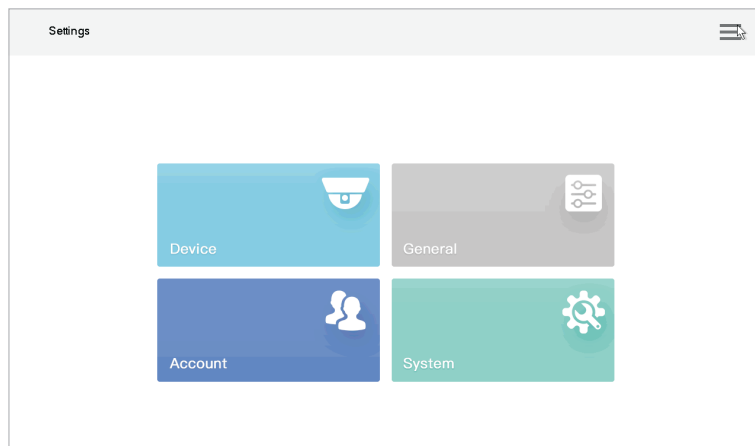

Figure 3-2

Name	Description
Device	Add, modify and delete devices; view input channel and modify input channel no. and so on.
General	Set network, Bluetooth, serial port, date and time.
Account	Display account and modify user password.
System	View program version and upgrade.

Table 3-2

Note

Click ☰ at the upper right corner, and a navigation bar appears in the page. With navigation bar, quickly return to preview, device, settings, playback, extension and homepage.

3.4 Network Settings

It includes wired network and Wi-Fi settings.

3.4.1 Wired Network

Configure IP address and DNS server of internet keyboard, so as to connect with other devices in the networking.

Precondition

Before setting network parameters, please ensure that the internet keyboard has connected network correctly.

Step 1 At "Settings" interface, click "General". The system displays "Network" interface, as shown in Figure 3-3.
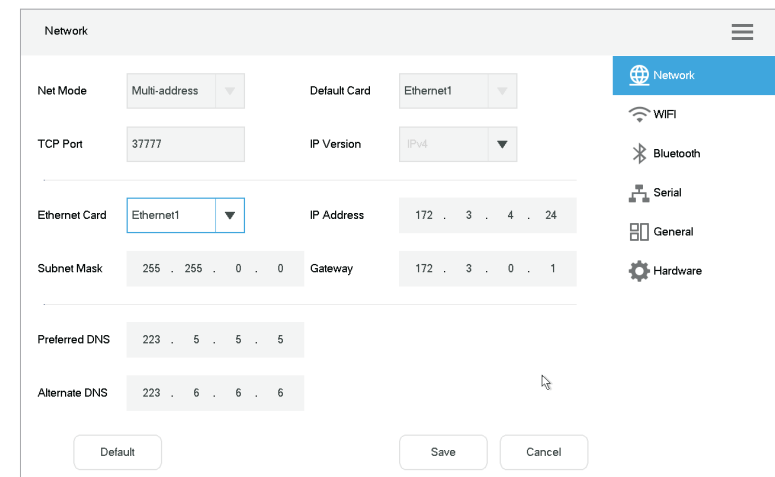

Figure 3-3

Step 2 Set the parameters. Please refer to Table 3-3 for details.

Parameter	Description
Net mode	It includes multi-address, fault tolerance and load balance. ● Multi-address: two Ethernet cards are used independently. During network status detection, if one Ethernet card is disconnected, network is deemed to be disconnected. ● Fault tolerance: two Ethernet cards use one IP address. Only one Ethernet card works under normal conditions; if the working Ethernet card breaks down, the other Ethernet card starts to work automatically, so as to ensure smooth network. During network status detection, network is deemed to be disconnected only when both Ethernet cards are disconnected. Both Ethernet cards shall be in the same LAN. ● Load balance: two Ethernet cards use one IP address and work together to undertake network load. Their network throughput is basically the same. If one breaks down, the other one still works normally. During network status detection, network is deemed to be disconnected only when both Ethernet cards are disconnected. Both Ethernet cards shall be in the same LAN.
Default card	When "Net Mode" is set to be "Fault Tolerance" or "Load Balance" and multiple Ethernet cards are bonded, one Ethernet card can be designated to be default working Ethernet card.
TCP port	It is usually default value.
IP version	It is IPv4 address format by default, which shall not be modified.
Ethernet card	Select Ethernet card.
IP address	Enter numbers to modify IP address, set corresponding "Subnet Mask" and "Gateway". Default IP address of Internet keyboard is "192.168.1.108".
Subnet mask	
Gateway	
Preferred DNS	IP address of DNS server.
Alternate DNS	IP address of alternate DNS server.

Table 3-3

Step 3 Click "Save".

3.4.2 Wi-Fi
Automatic Search for Wi-Fi
Click ⬭ to enable Wi-Fi function. The system will search Wi-Fi automatically and display results as shown in Figure 3-4. Click 🔍 to update the search.
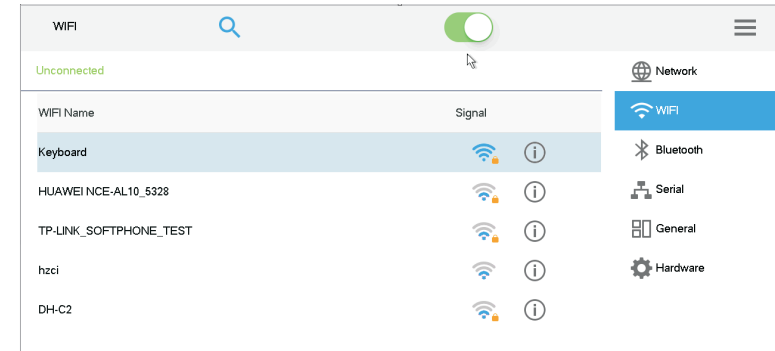

Figure 3-4

Wi-Fi Connection
Step 1 Double click Wi-Fi name or signal strength. "Wi-Fi Connection" dialog box will pop out, as shown in Figure 3-5.
Step 2 Enter correct password and click "Connect".
In case of successful connection, the connected "Wi-Fi Name" and "Connected" will be displayed at the upper left corner.
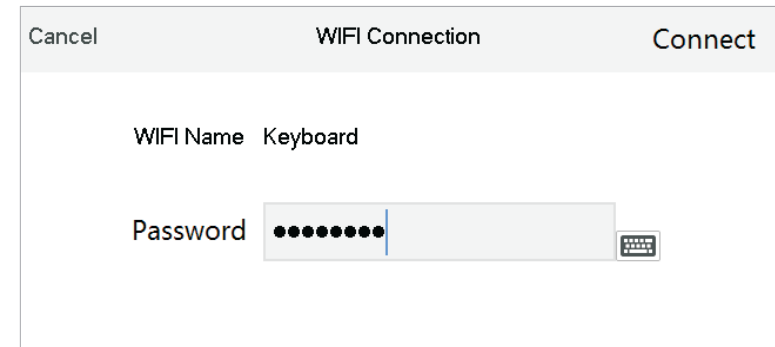

Figure 3-5

Disconnect Wi-Fi
Click ⓘ on the right of "Connected" Wi-Fi and click "Disconnect" in the popped out dialog box.

3.5 Add Device
It includes manual adding and auto search.
3.5.1 Enter Device Management Interface
In "Settings" interface, click "Device Manage" to enter the interface, as shown in Figure 3-6.
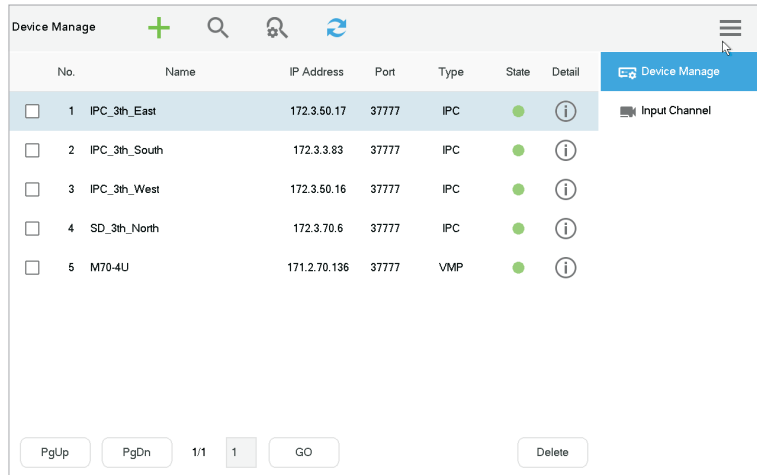
Figure 3-6

3.5.2 Manual Add

Step 1 Enter "Device Manage" interface and click ➕ . The system pops out "Manual Add" dialog box, as shown in Figure 3-7.

Figure 3-7

Step 2 Set the parameters. Please refer to Table 3-4.

Parameter	Description
Protocol	Select protocol type. It only supports "Private" at present.
Start IP and End IP	● Enter start IP and end IP when one IP segment is added. ● Enter start IP when one IP is added.
Port	Enter port number. It is usually default value.
Username and password	Enter username and password.
Channel	Enter channel quantity. ◯ means that it is opened, while ◯ means that it is closed. For example, total channel quantity of the device is 48. However, if you want to add 1st channel ～16th channel, set the channel quantity.

Table 3-4

Step 3 Click "OK".

3.5.3 Auto Search

Step 1 Enter "Device Manage" interface and click 🔍 . The system pops out dialog box of auto search, as shown in Figure 3-8.

Figure 3-8

Step 2 Enter IP segment and tick the check box.

Step 3 Click "Save". Auto search results are shown as Figure 3-9.
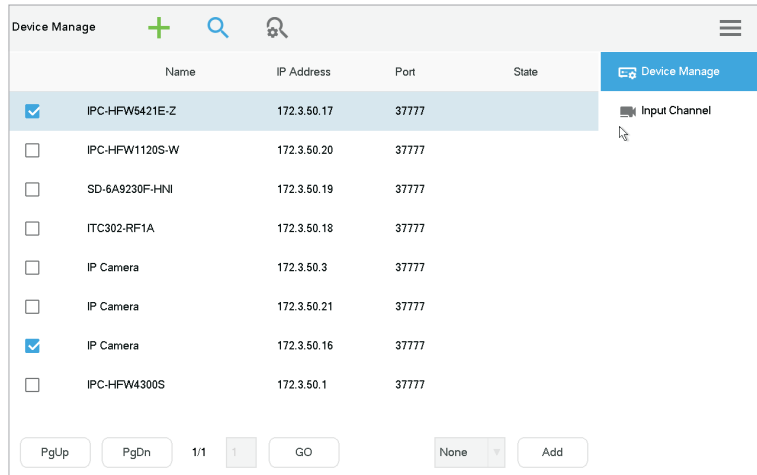
📖 **Note**

Alternatively, click 🔍 to view search results.

Device Manage + Q

	Name	IP Address	Port	State
☑	IPC-HFW5421E-Z	172.3.50.17	37777	
☐	IPC-HFW1120S-W	172.3.50.20	37777	
☐	SD-6A9230F-HNI	172.3.50.19	37777	
☐	ITC302-RF1A	172.3.50.18	37777	
☐	IP Camera	172.3.50.3	37777	
☐	IP Camera	172.3.50.21	37777	
☑	IP Camera	172.3.50.16	37777	
☐	IPC-HFW4300S	172.3.50.1	37777	

🖥 Device Manage
📹 Input Channel

PgUp PgDn 1/1 1 GO None ▼ Add

Figure 3-9

4 Preview

Preview local devices, video on wall, PTZ control, snapshot and recording.

4.1 Enter Preview Interface

Click "Preview " at main interface to enter "Preview" interface, as shown in Figure 4-1.
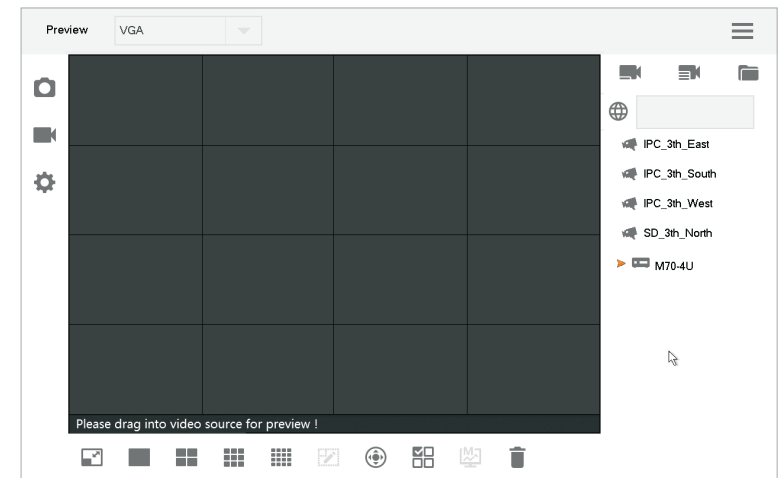There are five modes, including VGA and HDMI1～HDMI4.

Preview VGA ▼

IPC_3th_East
IPC_3th_South
IPC_3th_West
SD_3th_North
M70-4U

Please drag into video source for preview !

Figure 4-1

4.2 Icons of Preview Interface

Icon	Description	Icon	Description
📷	Snapshot Screenshot to USB disk	📹	Manual recording
⚙	Snapshot and recording settings	⬚	Maximize and restore the window
▪	Single split	⊞	4-split
▦	9-split	▦	16-split
▨	Custom split	◉	PTZ
▥	Select screen	▨	Smart stream mode
🗑	Delete	–	–

Table 4-1

4.3 Video on Wall

Step 1 At "Preview" interface, select VGA or HDMI1～HDMI4 in pull–down dialog box.

Step 2 Select video source in the right, drag it onto TV wall or double click the video source.

Quick Video on Wall (Optional)

Click ⊕, and a dialog box will pop out, as shown in Figure 4–2. Enter "Number (such as 1)+ ▦ ", so no. 1 device will be on wall quickly.

📖 **Note**

Please refer to "8.1.2 Input Channel" to inquire "Number" in the input channel.
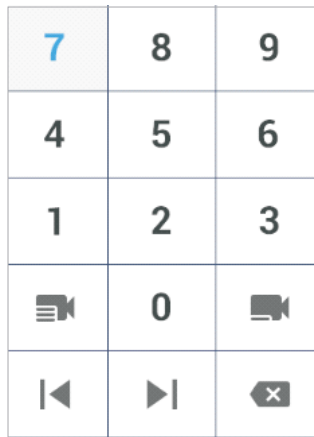
Figure 4–2

Quick Search for Added Device (Optional)

In the input box behind ⊕ , enter keywords of the added device, so as to search the added device.

Click the popped out language box, as shown in Figure 4–3. Press [Shift] key to switch the input method.

Figure 4–3

Maximize and Restore Window

Click ▣ to maximize and restore the window.

Single/4/9/16/Custom Split

Click ▦ , ▦ , ▦ , ▦ or ▨ respectively, representing single/4/9/16/custom split.

Clear Video Source

Step 1 Select a window.

- Click ▦, to select the focused window.
- Click again and the icon turns to be ▦ , to select all windows within present operating screen.

Step 2 Click ▯.

Smart Stream Mode

- Main stream goes on wall in case of single split.
- Sub–stream goes on wall in case of 9–split and 16–split.
- In case of 4–split, with HDMI1 and HDMI2 preview mode, main stream goes on wall. In other preview modes, sub–stream goes on wall.

4.4 PTZ Control

Please refer to "7. PTZ Control" for details.

4.5 Snapshot

At "Preview" interface, insert a USB disk into Internet keyboard, and click ▢ after checking USB disk.

4.6 Recording

At "Preview" interface, insert a USB disk into Internet keyboard, and click ▦ after checking USB disk.

4.7 Snapshot and Recording Settings

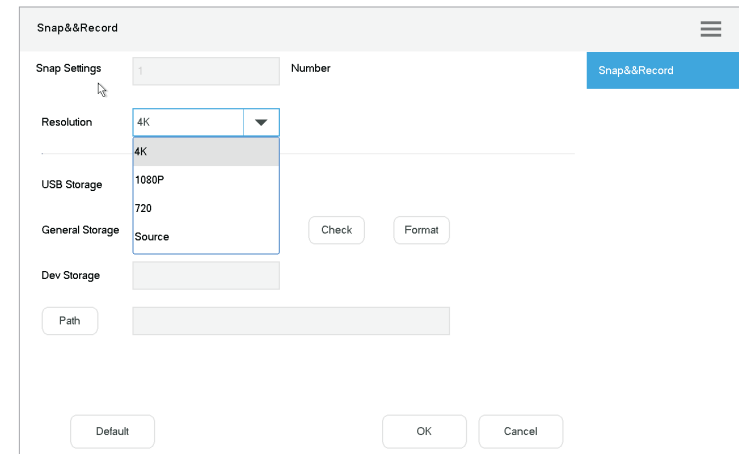**Step 1** At "Preview" interface, click ⚙ . The system displays "Snap & Record" interface, as shown in Figure 4–4.

Figure 4–4

Step 2 Insert a USB disk into Internet keyboard.

Step 3 Click "Check". The system displays general storage disk name and device storage.

Step 4 Set the parameters. Please refer to Table 4–2 for details.

Parameter	Description
Snap settings	It supports only 1 snapshot at present.
Resolution	Select resolution. ● When video resolution > the set resolution, snapshot image adopts the set resolution. ● When video resolution < the set resolution, snapshot image adopts actual video resolution.
USB storage	It is enabled by default.
Format	Click this button to format USB disk.
Path	Click this button to select snapshot storage path.

Table 4–2

Step 5 Click "OK".

5 TV Wall

Control decoder/matrix/TV wall.

Devices can be added only through WEB client. For details, please refer to "5.1 Add TV Wall through Matrix WEB Client" and "5.2 Add TV Wall through Decoder WEB Client". There are two ways to add TV wall through WEB client:

● Matrix WEB (support multiple TV walls)

● Decoder WEB (only one TV wall)

TV walls can be added in TV wall configuration of keyboard. Please refer to "5.8 Configure TV Wall" for details.

5.1 Add TV Wall through Matrix WEB Client

This part takes matrix WEB client as an example.

📖 **Note**

● This part is operated at matrix WEB client.

● For more specific configurations, please refer to matrix user's manual.

● This part also applies to large screen device.

5.1.1 Enter Matrix WEB Login Interface

Step 1 Enter IP address of matrix at address bar of the browser; press [Enter] key to enter matrix login interface, as shown in Figure 5–1.
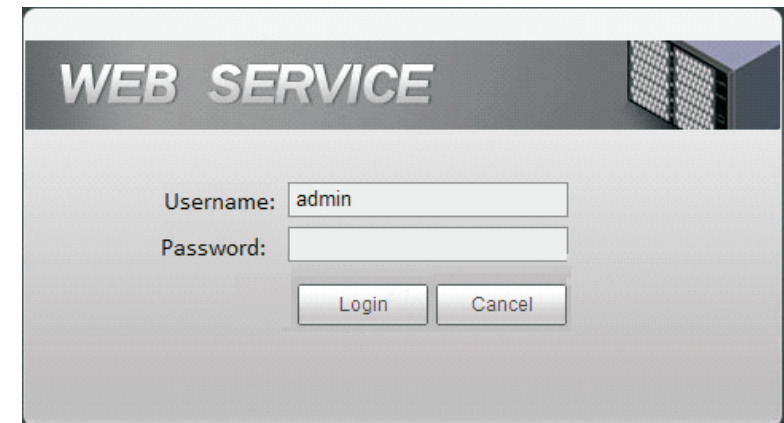

Figure 5–1

Step 2 Enter username and password. Default password is "admin".

Step 3 Click "Login" to enter WEB interface.

5.1.2 Add Network Signal

Search or add network signals manually.

Step 1 Select "Settings > Signal > Network Signal". The system displays "Network Signal" interface, as shown in Figure 5–2.
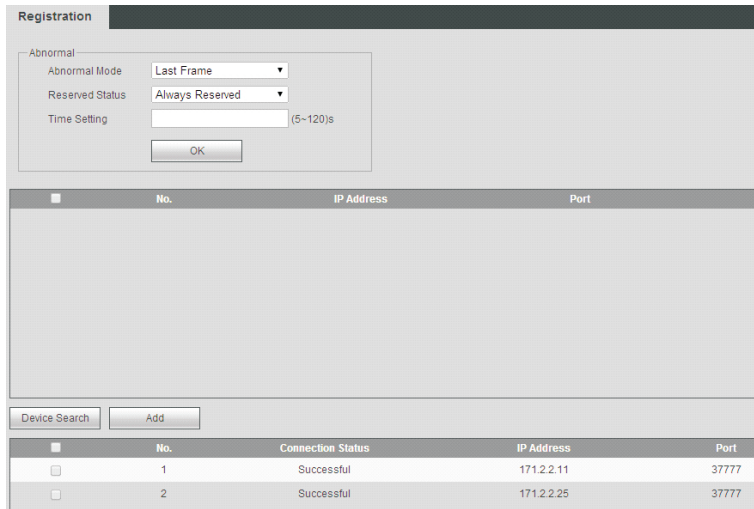

Figure 5–2

Step 2 Add network signals.
- Click "Device Search" to show search results, select the needed device and click "Add".
- Click "Manual Add" to set parameters in the popped out dialog box.

5.1.3 Signal Group

Select "Settings > Signal > Signal Group". The system displays "Signal Group" interface, as shown in Figure 5–3. Devices in the device list can be added to group list.
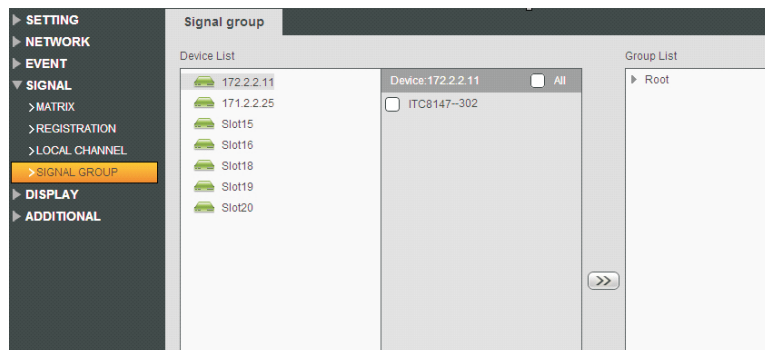

Figure 5–3

5.1.4 Add TV Wall

Step 1 Select "Settings > Display > TV Wall> TV Wall Config". The system displays "TV Wall Config" interface, as shown in Figure 5–4.
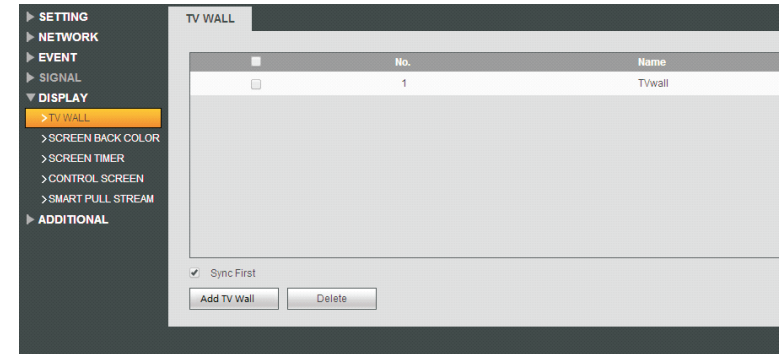

Figure 5–4

Step 2 Click "Add TV Wall" to add it.

5.2 Add TV Wall through Decoder WEB Client

This part takes decoder WEB client as an example.

📖 **Note**
- This part is operated at decoder WEB client.
- For more specific configurations, please refer to decoder user's manual.

5.2.1 Enter Decoder WEB Login Interface

Step 1 Enter IP address of decoder at address bar of the browser; press [Enter] key to enter decoder login interface, as shown in Figure 5–5.
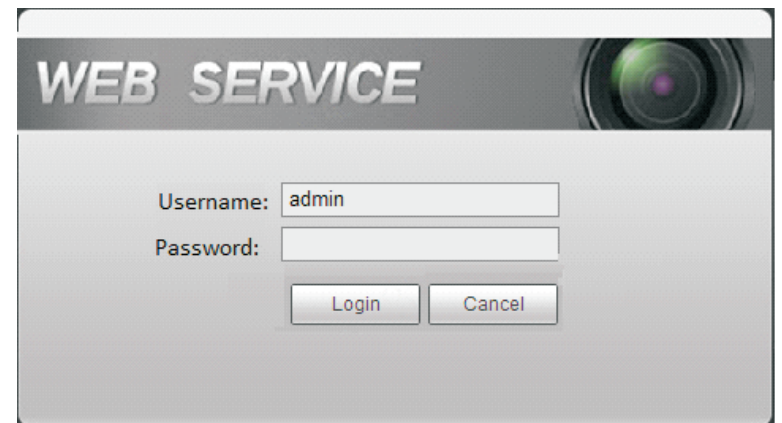

Figure 5–5

Step 2 Enter username and password. Default password is "admin".
Step 3 Click "Login" to enter WEB interface.

5.2.2 Add Remote Device

Search or add network signals manually.

Step 1 Select "Settings > Remote Device". The system displays "Remote Device" interface, as shown in Figure 5–6.
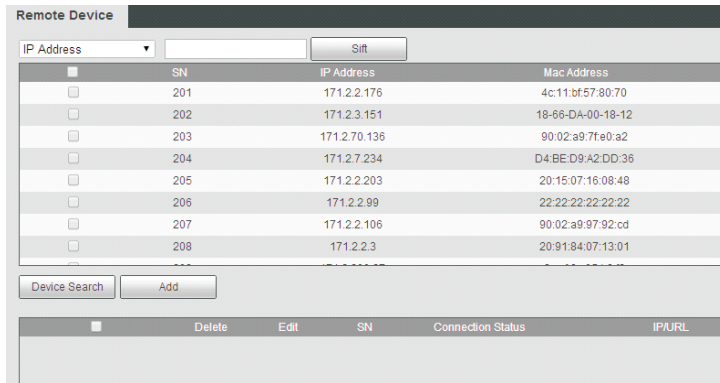

Figure 5–6

Step 2 Add remote device.
- Click "Device Search" to show search results, select the needed device and click "Add".
- Click "Manual Add" to set parameters in the popped out dialog box.

5.2.3 Edit Decoder TV Wall

Click merged screen to edit TV wall.

5.3 Add Device

Add TV wall, matrix and decoder device. Please refer to "3.5 Add Device" for details.

5.4 Video on Wall

Step 1 At main interface, click "TV Wall" to enter "TV Wall" interface.

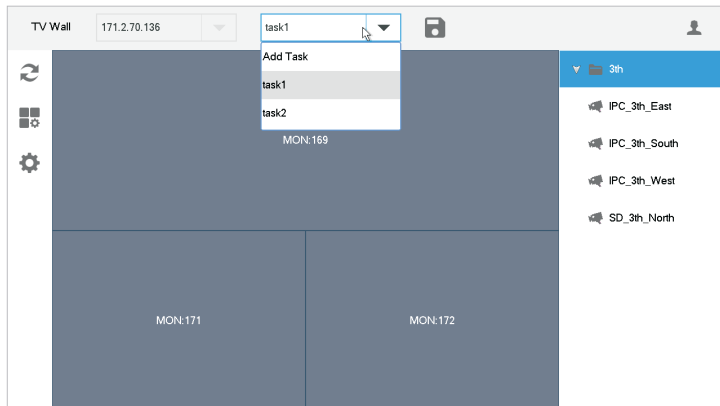**Step 2** In the pull–down list, select TV wall, as shown in Figure 5–7.

Figure 5–7

Step 3 Click one screen in Figure 5–7, such as MON:169.

Step 4 Split the screen. For example, click ▦ to realize 4–split.

Step 5 Drag video source in the right onto large screen. The system displays relevant info, as shown in Figure 5–8.
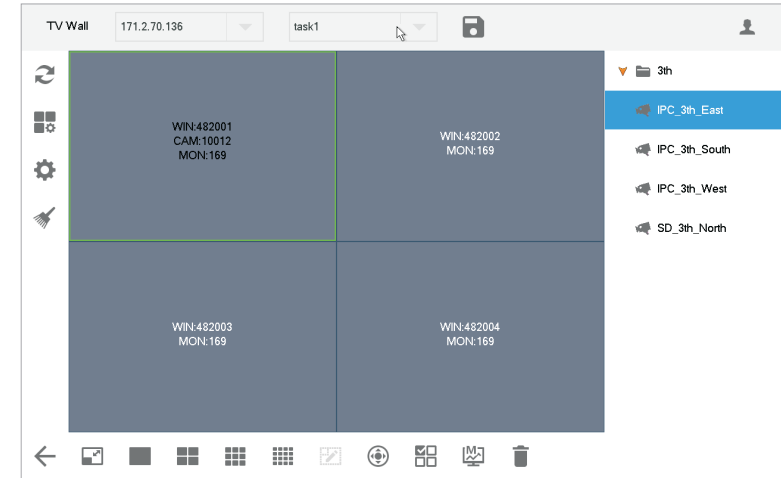

Figure 5–8

Switch Main and Sub-stream

Click ▥ to switch main and sub–stream. M represents main stream, while S represents sub–stream.

Clear Screen

Click ▨ to clear screen.

For other operations of TV wall, please refer to "4.3 Video on Wall".

5.5 Icons of TV Wall Interface

Please refer to Table 5–1 for introductions to icons.

Icon	Description	Icon	Description
↻	Refresh	▦	Config TV wall
⚙	Reserved	▨	Clear screen
←	Return	⊡	Maximize and restore the window
■	Single split	▦	4–split
▦	9–split	▦	16–split
▣	Custom split	◉	PTZ
▦	Select screen	▥	Switch main and sub–stream. M represents main stream, while S represents sub–stream.
🗑	Delete	–	–

Table 5–1

5.6 PTZ Control

Please refer to "7 PTZ Control".

5.7 Add Task

Frequently–used operations can be saved as tasks, in order to call them quickly.

Step 1 At "TV Wall" interface, carry out a series of operations according to actual needs. For example, split the screen into 16 parts.

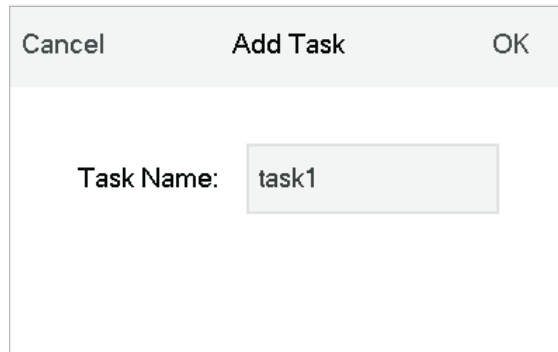**Step 2** Click 🖫. "Add Task" dialog box will pop out, as shown in Figure 5–9.

Figure 5–9

Step 3 Enter task name.

Step 4 Click "OK".

5.8 Configure TV Wall

At "TV Wall" interface, click 🖫 to enter "TV Wall Config" interface, as shown in Figure 5–10.
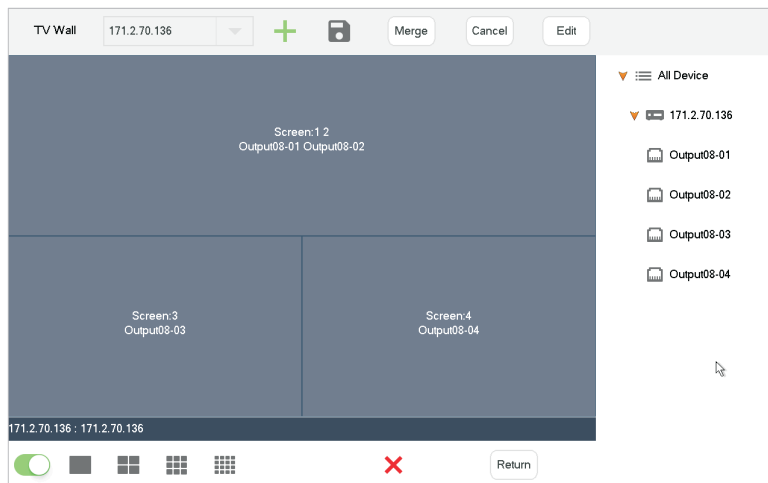

Figure 5–10

Enable TV Wall

Click ⬭ to enable TV Wall. Then, "TV Wall" pull–down list in Figure 5–7 will display this TV wall.

📖 **Note**

If decoding channel of this TV wall is bonded to other TV walls, other TV walls will be disabled.

New TV Wall

Step 1 Click ➕, and the system will pop out a dialog box of "New TV Wall", as shown in Figure 5–11.
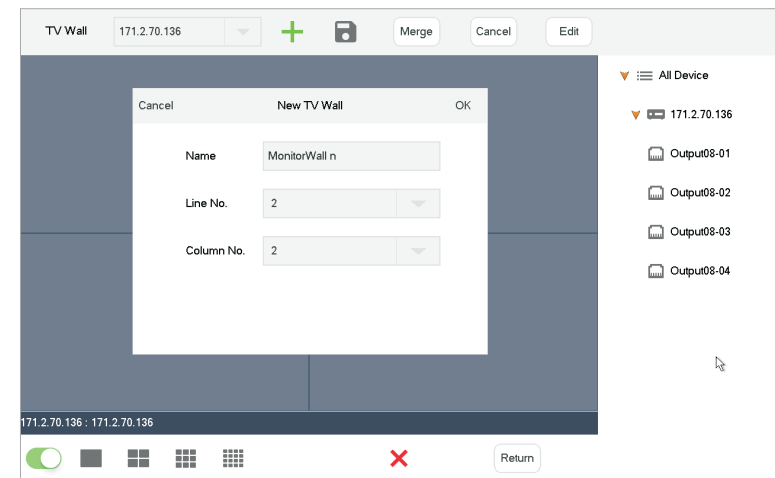

Figure 5–11

Step 2 Enter the name, select line no. and column no., and then click "OK".

Step 3 Drag decoding channels in the right into the screen, so as to bond corresponding relations.

Step 4 (Optional) Select two or more screens, click "Merge" to merge them into one screen.

Step 5 Click 🖫.

Delete TV Wall

Click ✖ to delete TV wall.

Cancel Merged Screen

Select a merged screen and click "Cancel".

Edit TV Wall

Click "Edit" and the system will pop out a dialog box of "New TV Wall", as shown in Figure 5–12.

Figure 5-12

Return to TV Wall Interface

Click "Return" to return to TV wall interface.

Exit TV Wall Interface

Click 👤 to exit TV wall interface.

6 Platform

The internet keyboard can connect with a platform, and thus control devices that are added to the platform.

7 PTZ Control

Precondition: speed dome owns PTZ function.

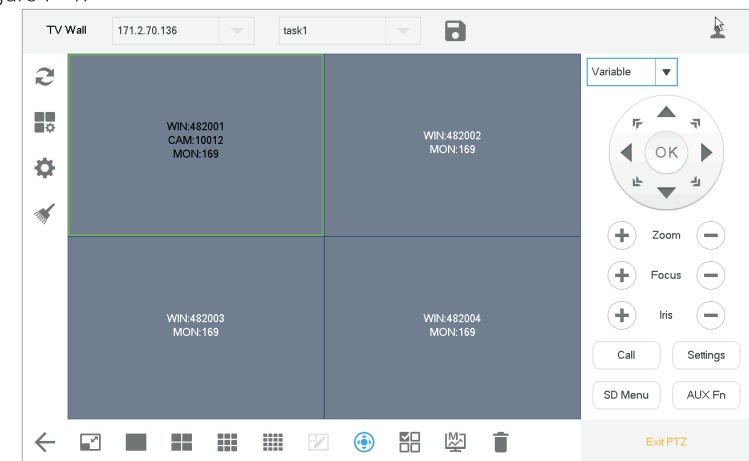Click ⊕ in "Platform" interface, so PTZ control interface appears in the right, as shown in Figure 7-1.

Figure 7-1

Parameter	Description
Step type	It consists of fixed step and variable step. ● By selecting "Fixed" , the step remains unchanged when PTZ turns; it is always the set step value. ● By selecting "Variable", the step changes with the tilt of joystick. The larger tilt angle represents quicker turning speed.
8 direction keys	Control turning direction of SD lens.
Zoom	Set the zoom increase/decrease of PTZ lens.
Focus	Set the focus increase/decrease of PTZ lens.
Iris	Set the iris increase/decrease of PTZ lens.
Call	Call the preset point, scan, tour and pattern.

Parameter	Description
Settings	PTZ operation settings, including the preset point, scan, tour and pattern.
SD menu	Open and close SD menu.
Auxiliary function	Lighting and wiper function.

Table 7-1

📖 **Note**

Use the joystick to control 8 directions of PTZ.

Call

Enter a number in the input box, such as "1". Click "Preset" to call the preset point 1. It will be called successfully under the precondition that preset point 1 exists. Call methods of scan, tour and pattern are the same as that of preset point.
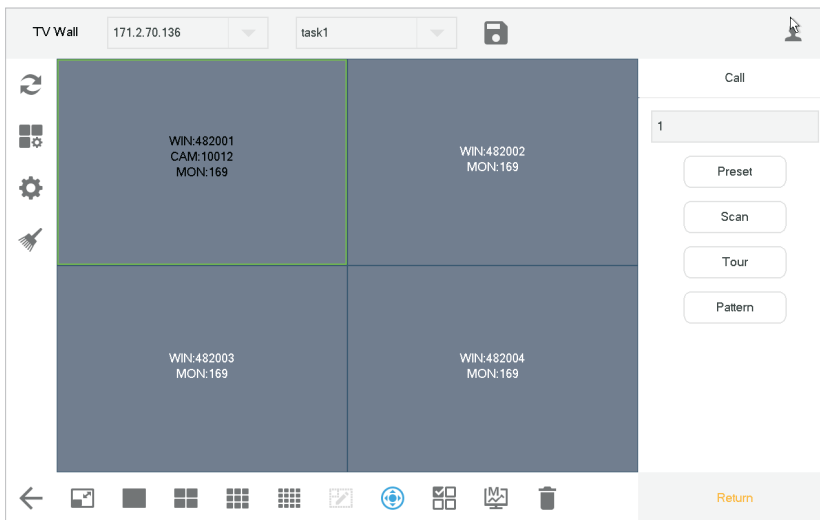

Figure 7-2

Settings

Settings of Preset Point

Step 1 Turn the camera to required position with the joystick or direction button.

Step 2 Select "Preset".

Step 3 Enter a preset point value in "Preset" input box, such as "1" .

Step 4 Click "Settings". Preset point 1 is set successfully.

Settings of Tour

Step 1 Enter tour route value in "Tour No." input box.

Step 2 Enter a preset point value in "Preset" input box and click "Add Preset" to add a preset point to the tour route.

📖 **Note**

- Multiple preset points can be added.
- Click "Del Preset" to delete the preset point from this tour route. Repeat the operation to delete multiple preset points from this tour route. Preset points cannot be deleted in some protocols.
- Click "Del Tour" to delete the present tour route.

Settings of Pattern

Step 1 Enter pattern no. in the dialog box of pattern no..

Step 2 Click "Start Pattern" to carry out operations of zoom, focus, iris or direction.

Step 3 Click "Stop Pattern" to complete the settings of one pattern route.

Settings of Scan

Turn the camera to left margin with the joystick or direction button; click "Set Left" to determine left margin position. Set the right margin position in the same way, so as to complete the settings of scan route.
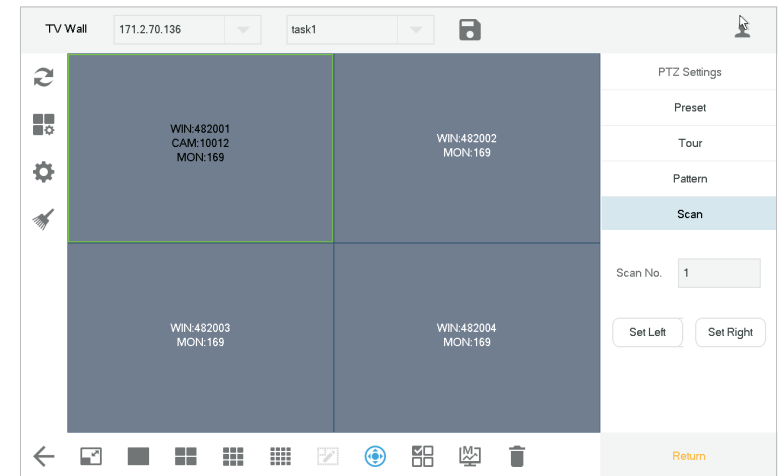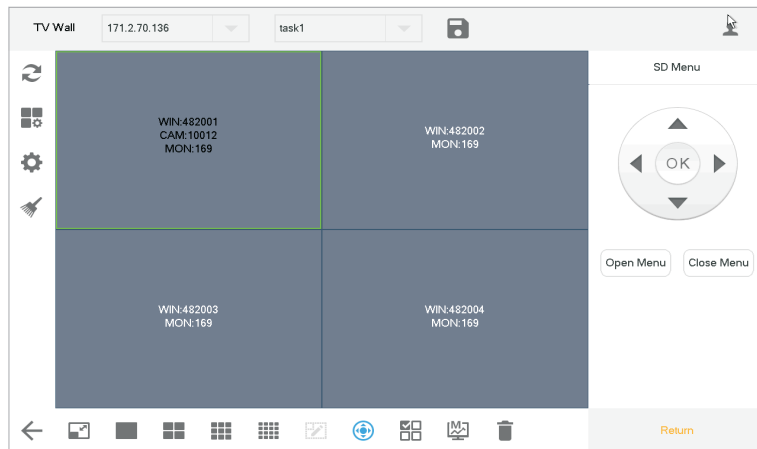

Figure 7-3

SD Menu
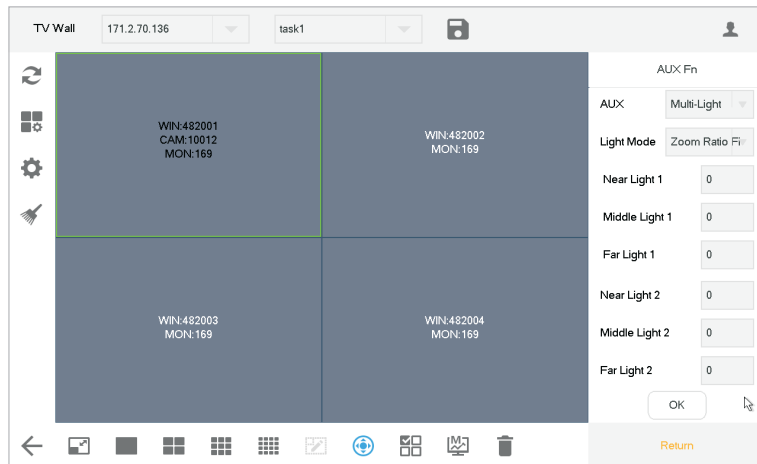

Figure 7-4

Auxiliary Function

Figure 7-5

- Auxiliary function includes single light, multi-light and wiper.
- Light mode includes manual, SmartIR and zoom ratio first.
- Light strength: light strength can be set.
- Light angle: light angle can be set.

8

Settings

It consists of four parts, namely, device, general, account and system.

8.1 Device Management

8.1.1 Add Device

Please refer to "3.5 Add Device".

8.1.2 Input Channel

Display input no., channel no., name, device, IP address and protocol of all channels. Meanwhile, modify input channel no..

At "Settings" interface, click "Device", and then click "Input Channel" tab to enter "Input Channel" interface, as shown in Figure 8-1.

Figure 8-1

Modify Input Channel No.

Click ⓘ to modify input channel no. in the popped out dialog box.

8.2 General Settings

8.2.1 Wired Network

Please refer to "3.4.1 Wired Network" for details.

8.2.2 Wi-Fi

Please refer to "3.4.2 Wi-Fil" for details.

8.2.3 Bluetooth

Default Bluetooth name of internet keyboard is "KEYBOARD".

Step 1 At "General" interface, click "Bluetooth" tab to enter "Bluetooth" interface.

Step 2 Click ⬭ to enable Bluetooth.

Step 3 Click 🔍 to search nearby Bluetooth device.

Step 4 Double click the searched device and the system will display "Connecting". After several seconds, the system will display "Connected", so it is connected successfully, as shown in Figure 8–2.
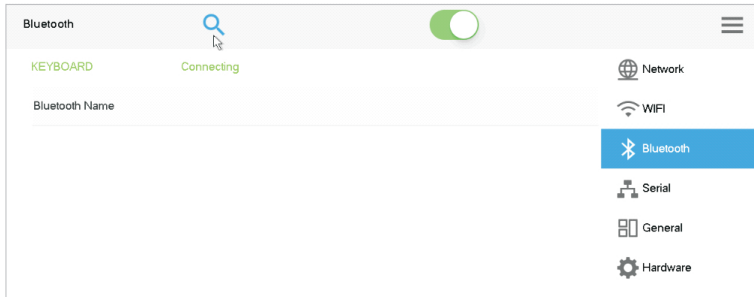

Figure 8–2

8.2.4 Serial Port

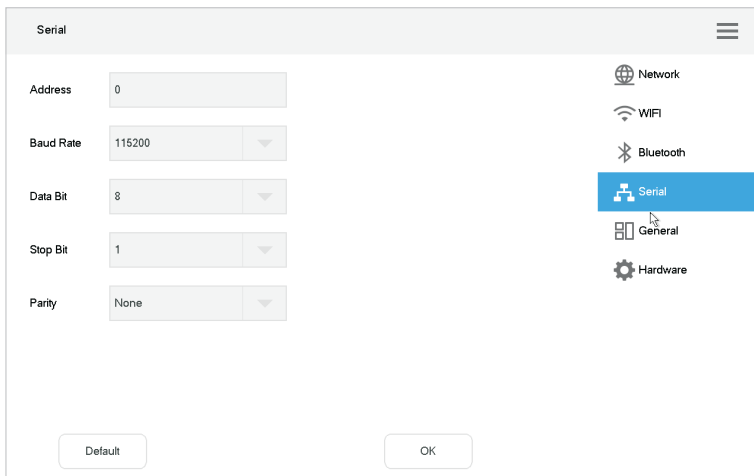**Step 1** At "General" interface, click "Serial" tab to enter "Serial" interface, as shown in Figure 8–3.

Figure 8–3

Step 2 Set the parameters. Please refer to Table 8–1 for details.

Parameter	Description
Address	In case of serial port control, identify devices according to the address. Value ranges from 0 to 255.
Baud rate	Baud rate ranges from 1200 to 115200. There are 8 levels available.
Data bit	Select data bit, including 5, 6, 7 and 8.
Stop bit	Select stop bit, including 1 and 2.
Parity	Select parity, including none, odd, even, checkmark and null parity.

Table 8–1

Step 3 Click "OK" .

8.2.5 General

Set name, date and time etc. of internet keyboard.

Step 1 At "General" interface, click "General" tab to enter "General" interface, as shown in Figure 8–4.
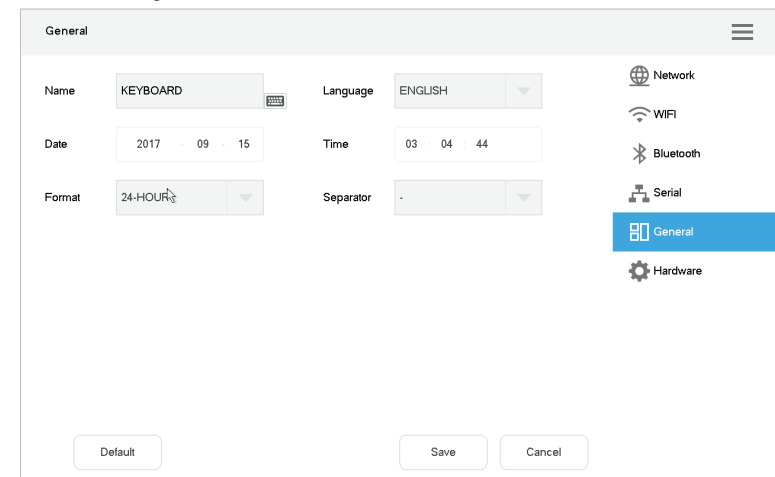

Figure 8–4

Step 2 Set the parameters. Please refer to Table 8–2 for details.

Parameter	Description
Name	Set internet keyboard name.
Language	Select language.
Date	Set date.
Time	Set time.
Format	Set time format, including 24–hour and 12–hour.
Separator	Set date separator, including ".", "–" and "/". When it takes effect, system time is displayed as "2017.08.08", "2016–08–08" and "2016/08/08".

Table 8–2

Step 3 Click "Save" .

8.2.6 Hardware

Adjust volume, set the locking time of internet keyboard and screen off time.

Step 1 At "General" interface, click "Hardware" tab to enter "Hardware" interface, as shown in Figure 8−5.
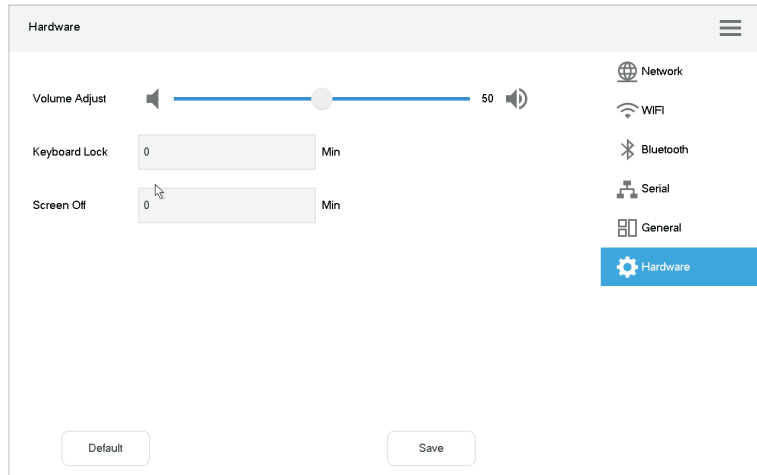
Figure 8−5

Step 2 Set the parameters. Please refer to Table 8−3 for details.

Parameter	Description
Volume adjust	Adjust the volume.
Keyboard lock	After keyboard is locked, log in the device to enter it again.
Screen off	Screen off time can be max. 60 minutes.

Table 8−3

Step 3 Click "Save" .

8.3 Account

View details of current account.

Step 1 At main interface, click "Settings" to enter settings interface.

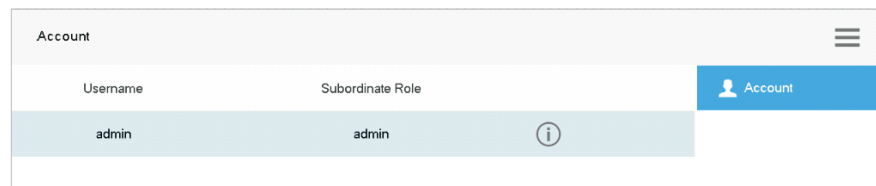**Step 2** Click "Account" to enter the account interface, as shown in Figure 8−6.

Figure 8−6

Step 3 Click ⓘ to modify user's password.

8.4 System

8.4.1 Version Upgrade

Upgrade the device with USB disk.

Step 1 At "System" interface, click "Upgrade" tab to enter "Upgrade" interface, as shown in Figure 8−7.
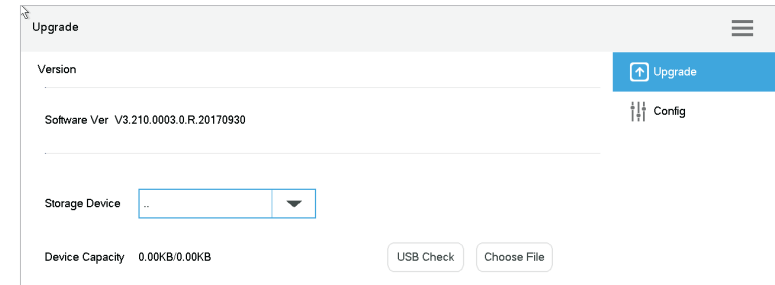
Figure 8−7

Step 2 Insert USB disk into the internet keyboard, and click "USB Check" .

Step 3 Click "Choose Files" to upgrade.

8.4.2 Configuration

Import or export system configurations.

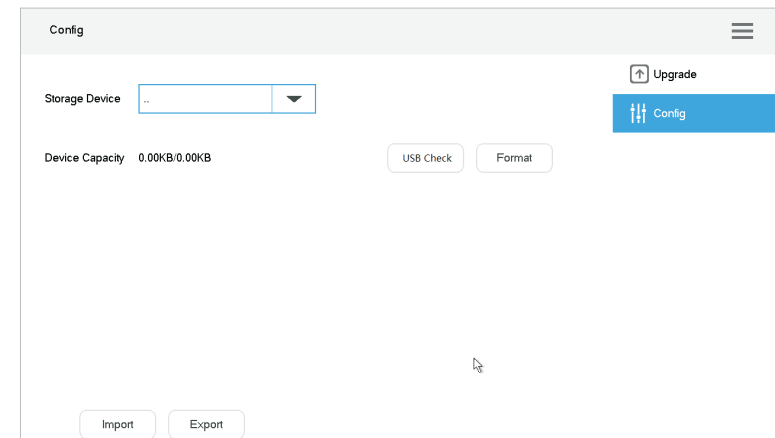**Step 1** At "System" interface, click "Config" tab to enter "Config" interface, as shown in Figure 8−8.

Figure 8−8

Step 2 Insert USB disk into the internet keyboard, and click "USB Check". Detect all connected USB and capacity.

Step 3 Import or export configurations.
- Import config: import config info in USB disk into the internet keyboard.
- Export config: export config info in the present keyboard to USB disk.

📖 **Note**
Click "Format" to format the USB disk.

9 Playback

Play back existing records.
Step 1 At main interface, click "Playback" tab to enter "Playback" interface.
Step 2 Select target device and channel.
Step 3 Set the start time and end time.
Step 4 Click "Search" .
Display search results in the list, as shown in Figure 9–1.

Figure 9–1

Step 5 Select one search result and click "Playback" , as shown in Figure 9–2.

Figure 9–2
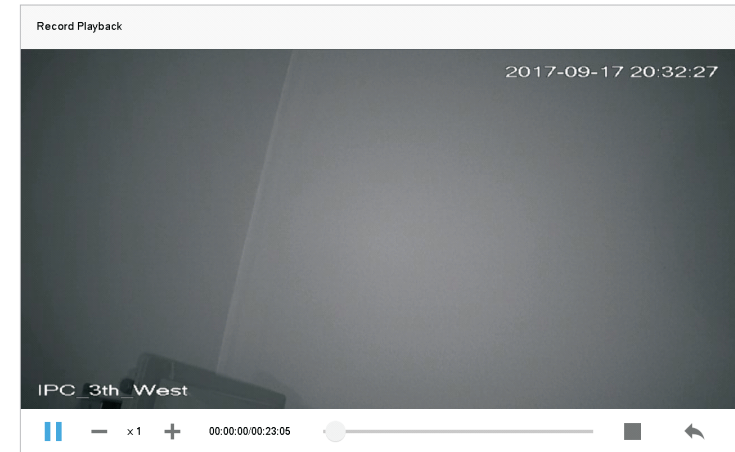
Step 6 Click ⬇ to download the record to USB disk. Records in USB disk can be played back.

10 Extension

Control the devices with direct physical connection with internet keyboard. At present, it only supports to control speed dome with 485 port.
Step 1 At main interface, click "Extension" to enter "Analog Keyboard" interface, as shown in Figure 10–1.

Figure 10–1

Step 2 Set the parameters. Please refer to Table 10-1 for details.

Parameter	Description
Connection mode	Set the connection mode, which only supports RS485 at present.
Device type	Enter device type.
Address	Enter device address.
Protocol	Select the protocol, including SD1, PELCOD and PELCOP.
Baud rate	Select baud rate.
Data bit	It includes 5, 6, 7 and 8.
Parity	It includes null, odd and even parity.
Stop bit	It includes 1, 1.5 and 2.

Table 10-1

Step 3 Click "OK" .

Open PTZ control interface to carry out PTZ control.

Appendix 1 Technical Parameters

Parameter	Description
LCD screen	10.1 inch TFT LCD screen, 1280 × 800 resolution
Touch screen	10.1 inch capacitance screen, 1280 × 800 resolution
Joystick	4D joystick
Video port	1 LCD screen and 4 HDMI ports. There are 5 output ports in total.
Local decoding	[Stream type] Support H.265, H.264, H264H, H264B, MJPEG, SVAC, Smart H.264 and non-standard stream. [Decoding performance] Support hardware decoding, 1200W/4K/1080P [Split performance] At present, single screen supports max. 16-split, so 5 screens support 80-split in total.
Audio input	1 audio input, 3.5mm stereo, support voice intercom function.
Audio output	1 audio output, 3.5mm stereo
Loudspeaker	1 loudspeaker to play audios.
Network port	Two 100M/1000M self-adaptive Ethernet ports
Wi-Fi	Support
USB port	4 USB ports, including 2 USB2.0 ports and 2 USB3.0 ports
RS485	1, as PTZ control port
RS232	2, as ordinary serial port (debugging), to control the recorder and other devices
RS422	1
Power input	DC 12V 4A
Operating temperature	-10℃～55℃
Operating humidity	10%～95% 86kPa～106kPa
Dimension	Host: 425mm × 194mm × 59mm (length × width × height, excluding joystick / antenna) Keyboard: 421mm × 105mm × 26mm (length × width × height)
Weight	3.73kg

Appendix Table 1-1 Technical Parameters