



User Manual

GD-KB-AT2430P

EN

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1 Appearance

The GD-KB-AT2430P keyboard consists of a touchscreen and a joystick panel. The joystick panel is detachable and can be separated from the keyboard. Refer to the following figure for keyboard appearance.



Figure 1-1 GD-KB-AT2430P Keyboard Appearance

Front Panel

Refer to the following table for description of keyboard appearance.

Table 1-1 Keyboard Appearance Description

Number	Name	Description
1	Touchscreen	10.1" capacitive touchscreen for display, configuration and operation of the keyboard.
2	Joystick	Used for PTZ control.
3	Capture Button	Used for picture capture.

Refer to the following table for description of joystick operations.

Table 1-2 Joystick Operation Description

Operation	Function
Up	PTZ control mode: Move the PTZ up.
Down	PTZ control mode: Move the PTZ down.
Left	PTZ control mode: Move the PTZ left.
Right	PTZ control mode: Move the PTZ right.
Rotate anticlockwise	Zoom out (ZOOM-)
Rotate clockwise	Zoom in (ZOOM+)

Interfaces

Eight interfaces and one button are provided on the rear panel of GD-KB-AT2430P keyboard.

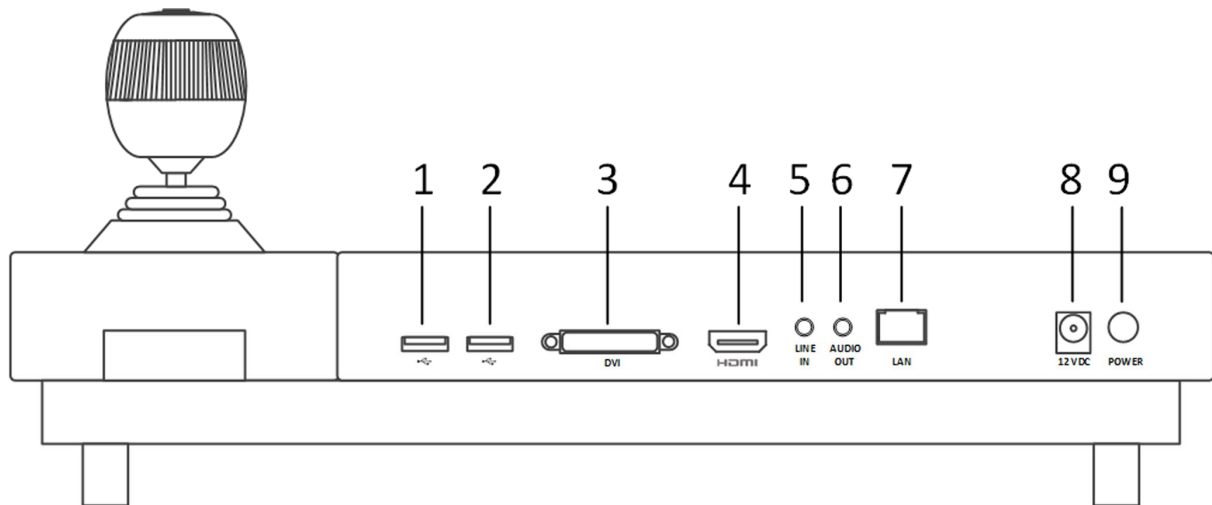


Figure 1-2 Rear Panel

Refer to the following table for description of the interfaces.

Table 1-3 Description of Interfaces

Number	Name	Description
1	USB Interface	One for connecting to the USB device. One for connecting to the joystick.
2		
3	DVI	DVI video output connector.
4	HDMI	HDMI video output connector.
5	LINE IN	3.5 mm connector for audio input.
6	AUDIO OUT	3.5 mm connector for audio output (an external amplifier must be connected).
7	LAN Network Interface	1 10M/100M/1000M adaptive Ethernet interface.
8	Power Input	12 VDC power input.
9	Power Switch	Press to wake up the touchscreen, or turn the keyboard into sleeping mode. Hold (for 3 s) to power on/off, or reboot the device.

2 Start-up

2.1 Activate Keyboard

The network keyboard is inactive by default. You should activate it before performing other operations. Then you can log in and log out of the keyboard.

Set an admin password to activate the keyboard for the first-time access. No operation is allowed before activation. You can activate it by the local keyboard operation.

Steps

1. Enter the device password.

Caution

STRONG PASSWORD RECOMMENDED-We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

2. Confirm the password and click **Activate**.

Note

You can activate the network keyboard on the Web when PC and the keyboard are on the same network segment.

What to do next

You can log in the keyboard and operate it now.

2.2 Login and Logout

Log in the keyboard to operate it. Log out to lock your operation.

Steps

1. Click **Keyboard** on the menu.
2. Select the account and enter the password to login.

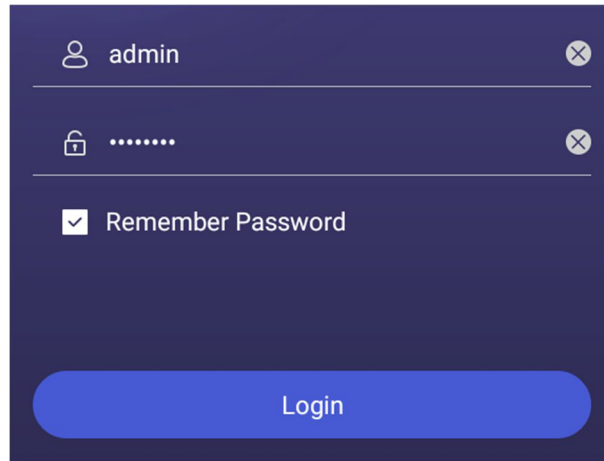




Figure 2-2 Login Interface

3. Optional: Check **Remember Password** to log in with no need to enter password next time.

Note

For admin user, 7 failed login attempts will lock the keyboard. For other users, 5 failed login attempts will lock the keyboard. When the device is locked, it will be unlocked after 30 minutes.

4. Optional: You can log out the keyboard anytime.
- 1) Click **Keyboard** on the menu.
 - 2) Click  on the upper-left corner.
 - 3) Click **Users**.
 - 4) Click , then a logout message box will pop up.
 - 5) Click **Logout**.

3 Configure Network


3.1 Set Wired Network

Setting the wired network parameters to connect to the network.

Before You Start

Make sure the network cable is appropriately connected.

Steps

1. Click  on the home page and choose **Ethernet**.
2. Switch on **Ethernet** to enable Ethernet configuration.
3. Set network parameters. You can connect to network by two following ways.

Static IP	Static IP addresses don't change. Using the static IP method, you must set your own IP address, network gateway, subnet mask and other parameters.
DHCP	With DHCP, you don't need to set your IP address; it is assigned dynamically.


3.2 Set Wireless Network

The keyboard has Wi-Fi module that can connect to wireless network.

Before You Start

A Wi-Fi network must be appropriately configured.

Steps

1. Click  on the home page and choose **WLAN**.
2. Switch on **WLAN** to enable automatic acquisition of WLAN information.
You can obtain Wi-Fi information nearby or enter Wi-Fi information manually to add network.
3. Connect to an existing Wi-Fi hotspot or add a new network.

Connect to a nearby Wi-Fi hotspot	<ol style="list-style-type: none">1. Click the Wi-Fi hotspot in the Wi-Fi list.2. Enter the password and connect to the network.
--	---

4 Manage Keyboard


4.1 Manage Device

4.1.1 Add and Edit Device

Add Device Manually

You can add devices manually by inputting device parameters. Up to 8,000 devices can be added by the admin.

Steps

1. Click **Keyboard**.
2. Click .
3. Click **Device**.

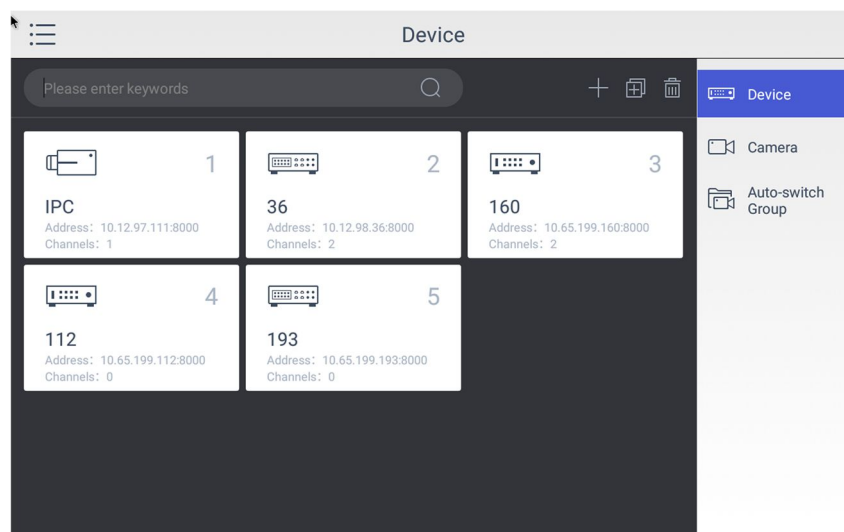
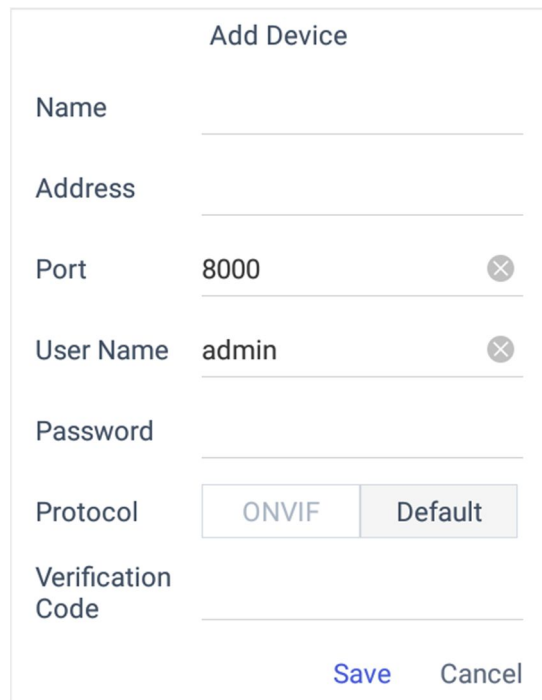


Figure 4-1 Device Management Interface of the Admin

4. Click  to enter the **Add Device** interface.
5. Input device parameters including **Name**, **Address**, **Port**, **User Name**, **Password**, and **Protocol**.

Note

- It will keep using the original device name if you leave **Device Name** empty.
- In **Protocol**, you can select **Default** for same brand devices, or select **ONVIF** for devices from other manufacturers.



The image shows a web form titled "Add Device". It contains several input fields: "Name" (empty), "Address" (empty), "Port" (containing "8000" with a clear button), "User Name" (containing "admin" with a clear button), "Password" (empty), "Protocol" (with two buttons: "ONVIF" and "Default", where "ONVIF" is selected), and "Verification Code" (empty). At the bottom right, there are "Save" and "Cancel" buttons.



Figure 4-2 Add Device Manually

6. Click **Save** to finish adding.

Add Device by Searching Online Devices

You can also add devices by online searching

Steps

1. Click **Keyboard**.
2. Click .
3. Click **Device**.
4. Click  to enter **Auto Search** interface. All online devices in the same network segment will be displayed in the list.

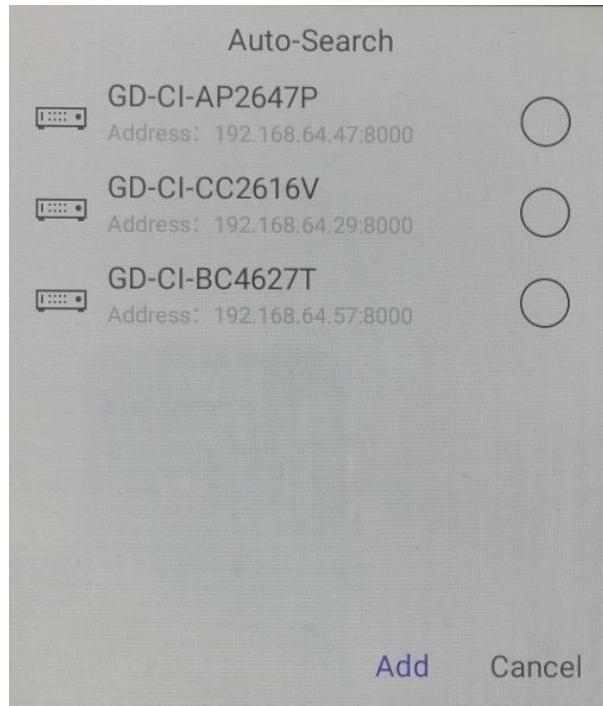


Figure 4-3 Auto Search Result

5. Select the device(s) as you desired.
6. Enter **User Name**, and **Password**.
7. Click **Save**.

Note

If you want to add multiple devices, all device user names and passwords must be the same.



Add Device by Importing from USB Flash Drive


You can add devices in batch by importing device information from USB flash drive.

Before You Start

You need a USB flash drive to import devices. Make sure you have added at least one device.

Steps



1. Click **Keyboard**.
2. Click .
3. Click **Camera**.
4. Optional: If you don't know the import file format, you can export a file to find out.
 - 1) Click .
 - 2) Enter the admin password.
 - 3) Select a file where you want to export.

- 4) Click **Export** to export the excel file.
- 5) Edit the excel sheet in other device, then save it in USB flash drive.
5. Click .
6. Enter the admin password.
7. Select the import file from the USB flash drive.
8. Click **Confirm**.

Find Added Devices

In the device/camera management interface, you can quickly search the added device/camera by IP address, keywords, or name.

Steps

1. Click **Keyboard**.
2. Click .
3. Click **Device**.
4. You can input device ID, IP address, keywords or name in the text field to search device.
5. Click .

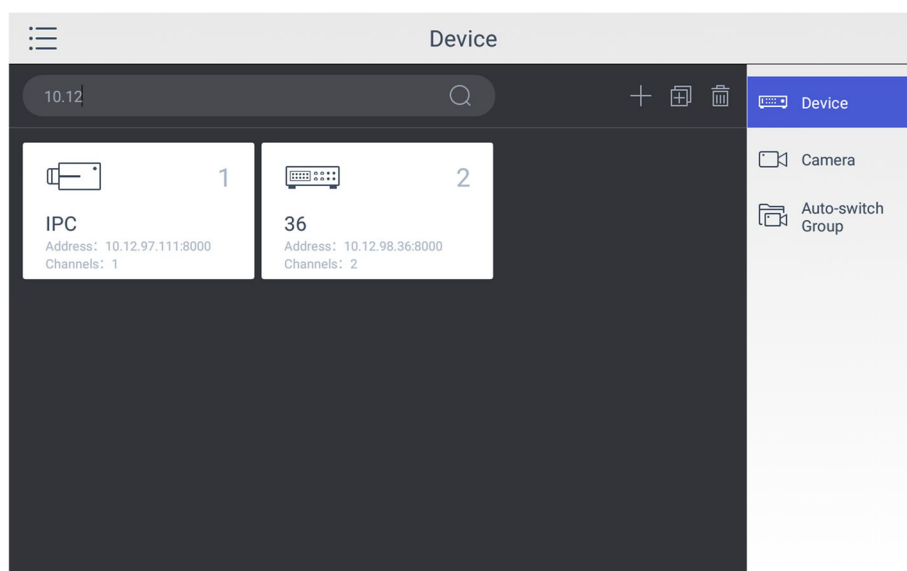


Figure 4-4 Search Device


Edit Device Property

You can view and edit details of the added devices in **Device** interface.

Before You Start

Ensure you have at least added one device.

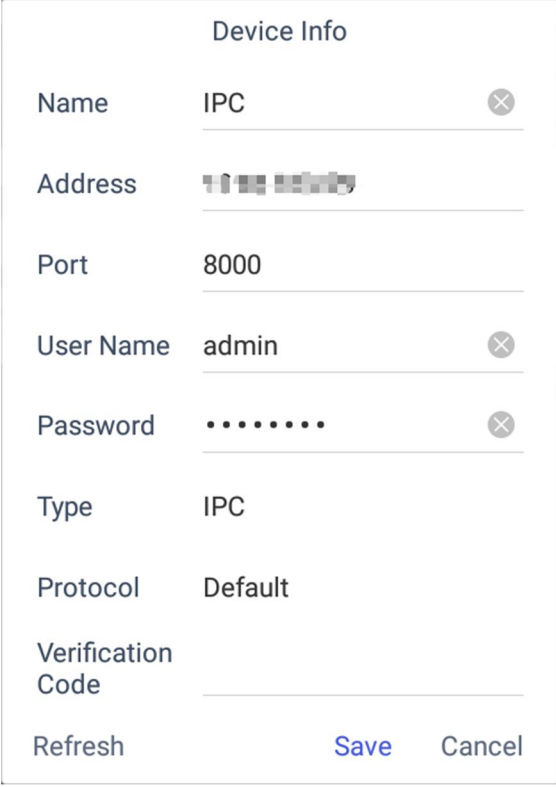
Steps

1. Click **Keyboard**.
2. Click .

3. Click **Device**.
4. Click on the name of the added device to view device details.
5. Modify the device parameters on the pop-up window.

Note

Only **Name**, **User Name**, and **Password** are editable.



The image shows a 'Device Info' pop-up window. It contains the following fields and values:

Device Info	
Name	IPC
Address	192.168.1.100
Port	8000
User Name	admin
Password
Type	IPC
Protocol	Default
Verification Code	

At the bottom of the window, there are three buttons: 'Refresh', 'Save', and 'Cancel'.

Figure 4-5 Edit the Device

6. Click **Save** to confirm the modification.

4.1.2 Manage Connected Cameras

You can view and edit connected camera information.

Before You Start

Ensure you have added at least one camera and logged in the admin user account.

Steps

1. Click **Keyboard**.
2. Click .
3. Click **Device** → **Camera**.

4. Click the camera as you desired and then you can view its details.

Name

The camera name.

Channel ID

The camera serial number according to the added sequence.

Protocol

The transfer protocol.

Stream

The stream type.

Device

The device name.

Address

The IP address and port of the corresponding device.

Channel No.

The channel number of added camera.

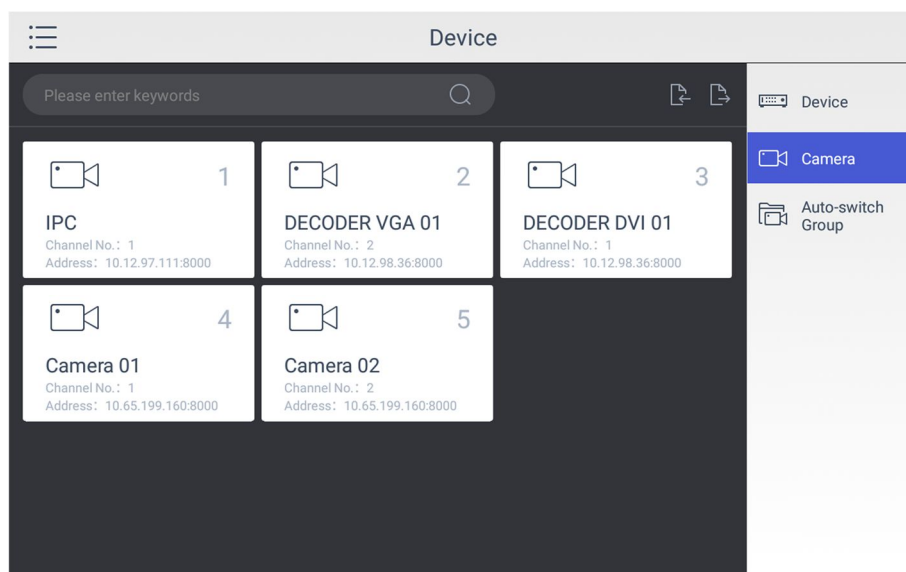


Figure 4-6 Camera Management Interface

5. Modify the camera details. Only **Name**, **Channel ID**, **Protocol**, and **Stream** are editable.

Note

The range of **Channel ID** is from 1 to 99999999, and the ID cannot be repeated.



6. Click **Save** to finish modification.

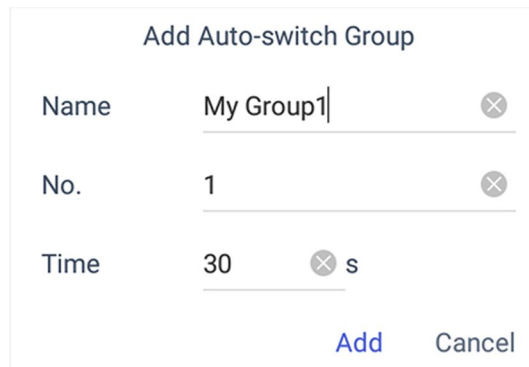
4.1.3 Manage Auto-switch Group

Create Auto-switch Group

It would be easier to manage your devices by adding relevant cameras into a group. For example, you can add all the underground garage cameras into one auto-switch group, so you can view the group to view the cameras in it.

Steps

1. Click **Keyboard**.
2. Click .
3. Click **Device** → **Auto-switch Group**.
4. Click .
5. Enter the group parameters.



The dialog box titled "Add Auto-switch Group" contains three input fields. The first field is labeled "Name" and contains the text "My Group1". The second field is labeled "No." and contains the number "1". The third field is labeled "Time" and contains the number "30" followed by a unit selector icon (a circle with an 'x') and the letter "s". At the bottom right of the dialog box are two buttons: "Add" and "Cancel".

Figure 4-7 Create a New Group

Name

Enter the group name as desired. Special characters, including / : * ? ' " < > | %, are not allowed, and the length cannot exceed 32 characters.

No.

Enter the group number as desired. The range is from 1 to 16, and it cannot be repeated. Up to 64 cameras can be added in each group, no more than 16 groups can be added.

Time

Enter the cycle dwell time for each channel as desired. The range is from 10s to 10000s. The default dwell time is 30s.

6. Click **Add**.

The dialog box titled "Add Channel(2)" contains a list of six cameras. Each camera entry includes a camera icon, the name (Camera 01 to Camera 06), and the address (10.65.199.156:8000). To the right of each entry is a circular selection button. Camera 02 and Camera 03 have blue checkmarks inside their buttons, indicating they are selected. Camera 01, Camera 04, Camera 05, and Camera 06 have empty white buttons. At the bottom of the dialog are three buttons: "Select All", "Save", and "Cancel".

Camera Name	Address	Selection Status
Camera 01	10.65.199.156:8000	Not Selected
Camera 02	10.65.199.156:8000	Selected
Camera 03	10.65.199.156:8000	Selected
Camera 04	10.65.199.156:8000	Not Selected
Camera 05	10.65.199.156:8000	Not Selected
Camera 06	10.65.199.156:8000	Not Selected

Figure 4-8 Add Camera(s) to the New Group

7. Select the camera(s).
8. Click **Save** to finish creating auto-switch group.


Edit Auto-switch Group

You can view and modify auto-switch group details in **Auto-switch Group** interface.

Before You Start

Ensure you have groups added.

Steps

1. Click **Keyboard**.
2. Click .
3. Click **Device** → **Auto-switch Group**.
4. Click on the added group.

The dialog box titled "Auto-switch Group Info" contains three input fields. The "Name" field has the text "My Group1" and a clear button (X). The "No." field has the value "1". The "Time" field has the value "30" and a unit selector "s" with a clear button (X). At the bottom are three buttons: "Edit", "Save", and "Cancel".

Field	Value
Name	My Group1
No.	1
Time	30 s

Figure 4-9 Edit the Group



5. Edit group parameters of **Name**, **No.**, and **Time**.
6. Click **Edit** to edit channel(s) in the group.
7. Click **Save** to confirm the modification.



4.2 Live View on Screen

4.2.1 View Video with Keyboard

After device is successfully added, you can view the live video of the added network cameras or video encoders.





Steps


1. Click **Keyboard**.
2. Click .
3. Click **Live View**.
4. Optional: You can click  to select the window division mode.
5. Select a display window.
6. Select a camera to display by two selectable ways.

In keyboard panel Enter the serial number in the numeric panel, and click  or  to play the live video of corresponding camera or camera group on the window.

- In the list**
1. Click **List** or **Group**.
 2. Select a camera or group from the list to play.

Note

- Up to 16 cameras can be selected for live view at the same time.
- For group, auto-switch is not supported in multi-screen mode.
- Hold down the title bar to move the channel selection panel.
- Click  to delete the entered information if you entered incorrectly.
- Click  or  to preview the previous or next camera or group.
- Enter **0** in the numeric panel and click  to stop the live view.

-
7. Optional: You can click  to perform operations including full screen, capture picture, record video, two-way audio, and view parameters of the camera on live view.

Note

If you perform operations of capture picture and record video, make sure to connect the keyboard with a USB flash drive, or provide a valid and correct network connection between PC (running FTP server) and the keyboard, and set the FTP parameters of keyboard correctly. Refer to Set Storage for FTP configuration.

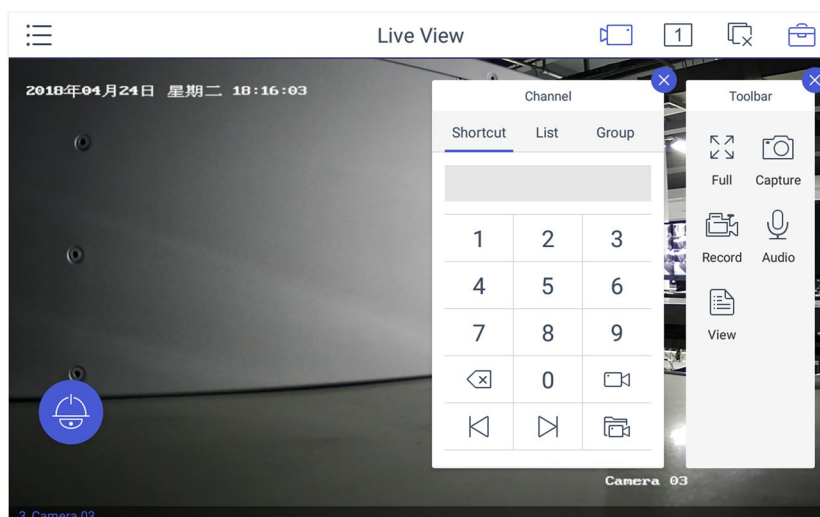



Figure 4-10 Live View


4.2.2 PTZ Control

You can click  in the live view mode to achieve PTZ control operation. The PTZ control should be supported by the added device.

Set and Call a Preset

A preset is a predefined image position which contains information of pan, tilt, zoom, focus and other parameters.

Steps

1. Click **Preset** in the PTZ control panel.
2. Use the joystick to move the camera to the desired scene.
3. Click  to set the preset.

Note

Up to 300 presets can be configured.

What to do next

You can click a preset from the list to call the preset.

Call a Patrol

A patrol is a scanning track specified by a group of user-defined presets, with the scanning speed between two presets and the dwell time at the preset separately programmable.

Before You Start

Set the patrol for the camera through Web Browser, client software, etc.

Steps

1. Click **Patrol** in the PTZ control mode.
2. Click a patrol from the list to call it.



Note

Up to 8 pre-defined patrols can be called.

Set and Call a Pattern

You can record the pan/tilt movements and zoom control of the PTZ camera, and call the pattern.

Steps

1. Tap **Pattern** in the PTZ control panel.
2. Tap  to start recording path of the desired pattern.
3. Use the joystick and other buttons to control the PTZ movement, including pan/tilt movements, zoom and focus control, auto-scanning, etc.
4. Tap  to stop recording of this pattern path.

Note

Up to 4 patterns can be configured.

What to do next




You can tap a pattern from the list to call the pattern.

4.3 Manage Video Wall

4.3.1 Edit Video Wall Layout

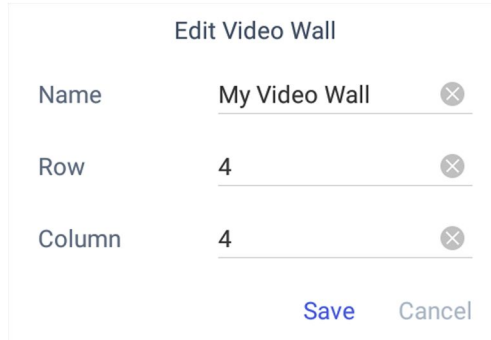
You can edit the layout of the video wall, including the name, row and column.

Steps

1. Click **Keyboard**.
2. Click .
3. Click **Video Wall**.
4. Click .
5. Click **Config** on toolbar panel.
6. Click .
7. Enter the parameters of video wall.

Note

You can add 2 to 10 rows and 2 to 15 columns.

A dialog box titled "Edit Video Wall" with three input fields: "Name" with the value "My Video Wall", "Row" with the value "4", and "Column" with the value "4". Each field has a clear button (X) to its right. At the bottom right are "Save" and "Cancel" buttons.

Edit Video Wall		
Name	My Video Wall	X
Row	4	X
Column	4	X
		Save Cancel

Figure 4-11 Edit the Video Wall

Name

Edit a name for the video wall as desired.

Row

The row of the video wall.

Column



The column of the video wall.

8. Click **Save** to save the settings.

4.3.2 Configure Video Channels on Video Wall

You can select and configure the output channel for each video wall window. For some other video wall devices, you can get the output channels automatically.

Steps

1. Click **Keyboard**.
2. Click .
3. Click **Video Wall**.
4. Click .
5. Click **Config** on the toolbar panel.
6. Select the playing window on the video wall.

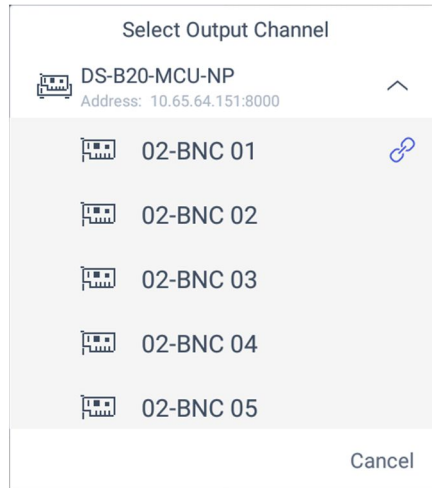



Figure 4-12 Select the Output Channel

7. Select the output channel as you desired.

Note

- If you want to delete the output channel, hold the configured window and click  on the upper-right corner
- At **Video Wall** interface, you can also open, close, and move window by holding the window.

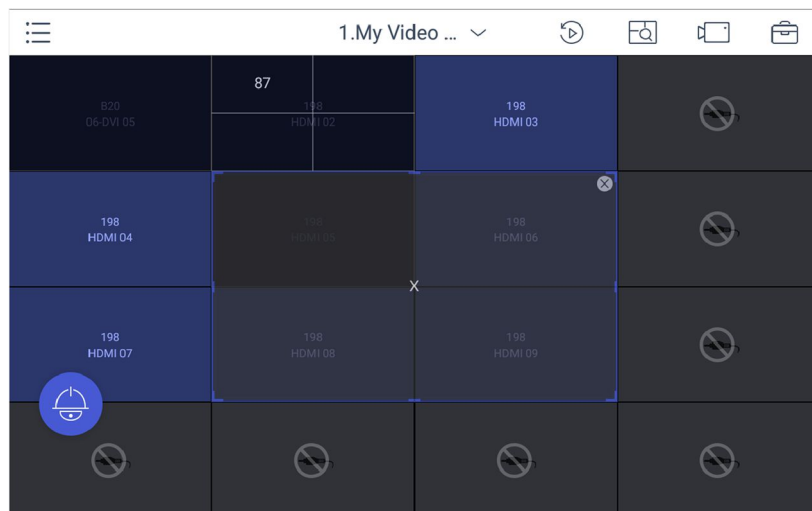


Figure 4-13 Delete the Output Channel





What to do next

You can log in the keyboard and operate it now.

4.3.3 Play Video on Video Wall



You can play live video on video wall window.

Steps

1. Click **Keyboard**.
2. Click .
3. Click **Video Wall**.
4. Select a playing window.
5. Click  to expand the channel panel.
6. Select the camera No. you want to play on the selected display window.
 - 1) Click **Shortcut**.
 - 2) Enter the camera/group No. in the numeric panel.
 - 3) Click  or  on the display window.

Note

- You can also select camera by clicking the camera or group from **List** or **Group** interface.
 - You can see the camera No. on the display window. If you select a group, the display window will show **G**.
-

7. Optional: You can perform PTZ control by clicking , refer to **PTZ Control** for specifications.
8. Optional: You can achieve functions such as capture picture, record video, and refresh display interface by clicking .


4.3.4 Configure Display Window

For the devices supporting window roaming (e.g., GD-RN-AT8864N), you can move the playing window within the video wall as desired, close the window and adjust the window to match it with the borders.

Before You Start

Ensure the connected decoding device supports window roaming function.

Steps

1. Click **Keyboard**.
2. Click .
3. Click **Video Wall**.
4. Select a window as you desired.
5. Hold the window until the window frame appears.

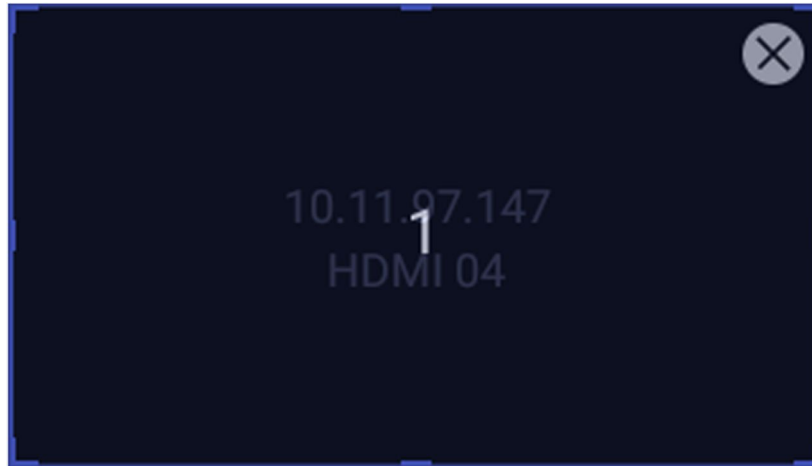





Figure 4-14 Window Roaming

6. You can move the playing window within the video wall as desired and adjust its size.
7. The dotted borders will display during moving the window. You can double-click the window to adjust it to match the borders.
8. Optional: Click  in toolbar to split the window.

4.3.5 Save Current Video Wall Settings as a Scene

You can save your current video wall settings as a scene.

Steps

1. Click **Keyboard**.
2. Click .
3. Click **Video Wall**.
4. Select a display window on the configured video wall layout.
5. Click  to expand the toolbar.
6. Click **Scene** to access the scene list.
7. Select the scene in the list.
8. Click **Save** to save the current video wall scene.


4.3.6 Video Wall Playback


You can playback and view videos on video wall.

Before You Start

Ensure you have added decoding device channel to the video wall.

Steps

1. Click **Keyboard**.
2. Click .
3. Click **Video Wall**.
4. Select a window on the video wall interface.

5. Click .
6. Select the date as you desired.

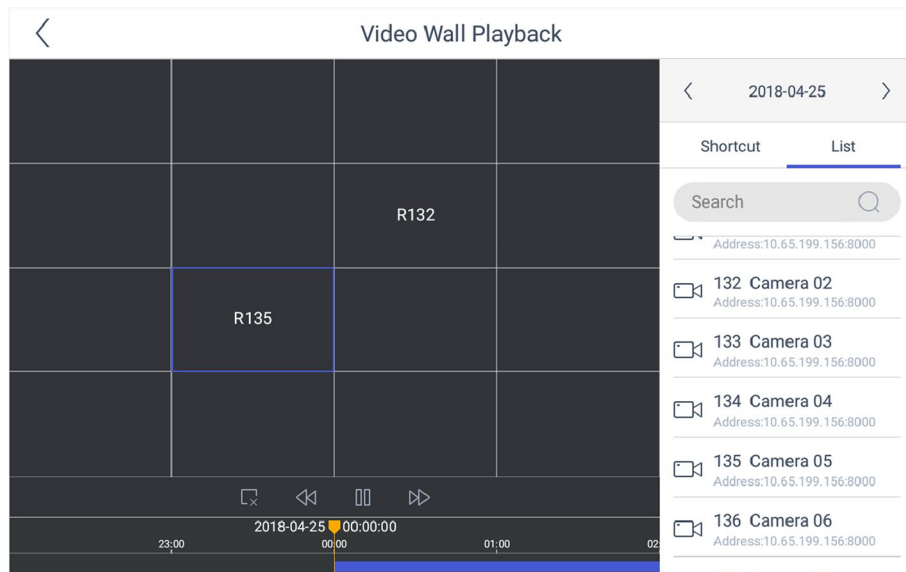



Figure 4-15 Video Wall Playback

7. Optional: You can switch channel by two ways.
 - In keyboard panel** Enter the serial number in the numeric panel, and click .
 - In the list**
 1. Click **List**
 2. Select a camera in the list.

Note



The channel of the selected window must be from a decoding device.

8. Drag the slider to set required playback time.
9. Use the toolbar to perform playback operations, including stop playing video, start/pause playing video, slow forward speed, and fast forward speed.

4.3.7 Smart Scaling on Video Wall

For the large-scale video wall layout, you can use the smart scaling function to select and zoom in the required windows area.

Steps

1. Click **Keyboard**.
2. Click .
3. Click **Video Wall**.
4. Click  to open the smart scale control panel.

5. You can adjust the frame size with fingers.

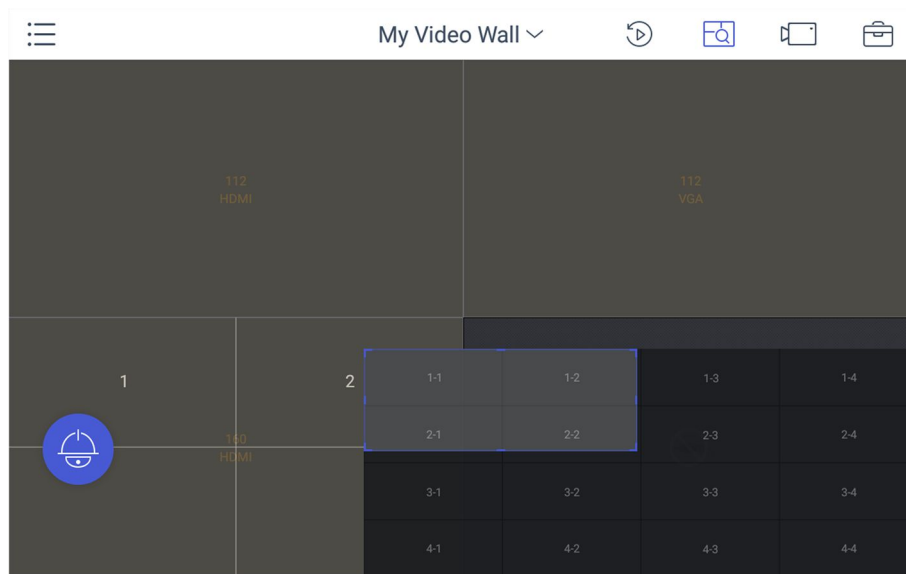




Figure 4-16 Smart Scaling

4.3.8 Video Wall Preview

You can preview videos on the local keyboard interface to check the layout and other effects of the video wall.

Ensure you have connected video wall controller or multi-function video center before previewing the video wall.

Select  →  to preview the video wall.


Note

Only one video wall can be previewed each time.

4.4 Video Playback

The videos stored in the encoding device within 24 hours can be played back on the keyboard.

Steps

1. Click **Keyboard**.
2. Click .
3. Click **Playback** on the menu to enter the play back interface.
4. Select the date as you desired.

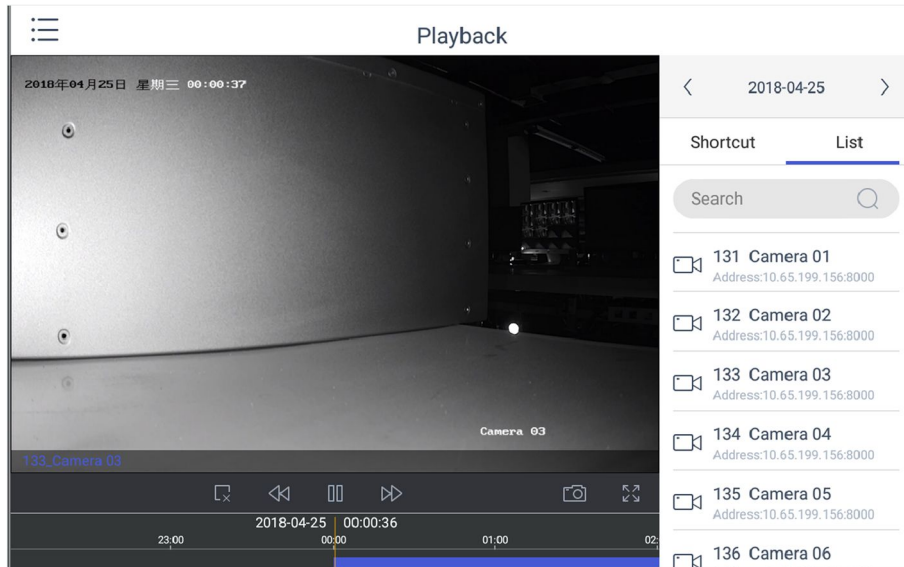



Figure 4-17 Video Playback

5. You can switch channel by two ways.

In keyboard panel Enter the serial number in the numeric panel, and click .

In the list

1. Click **List**
2. Select a camera in the list.

6. Drag the time bar to set required playback time.

7. Use the toolbar to perform playback operations, including stop playing video, start/pause playing video, slow forward speed, and fast forward speed.


Note

To control the play speed, you can also move joysticks left or right to slow or fast forward the video respectively.

4.5 Control DVR

The keyboard can operate the added DVR/NVR and achieve PTZ control operation.

Steps

1. Click **Keyboard**.
2. Click .
3. Click **Operate DVR**.
4. Select the NVR/DVR from the right list as you desired.

5. Apply the buttons on the control panel to achieve DVR/NVR functions such as switching the camera, playing the video, recording, entering menu, main/spot output switching, Aux functions, etc.

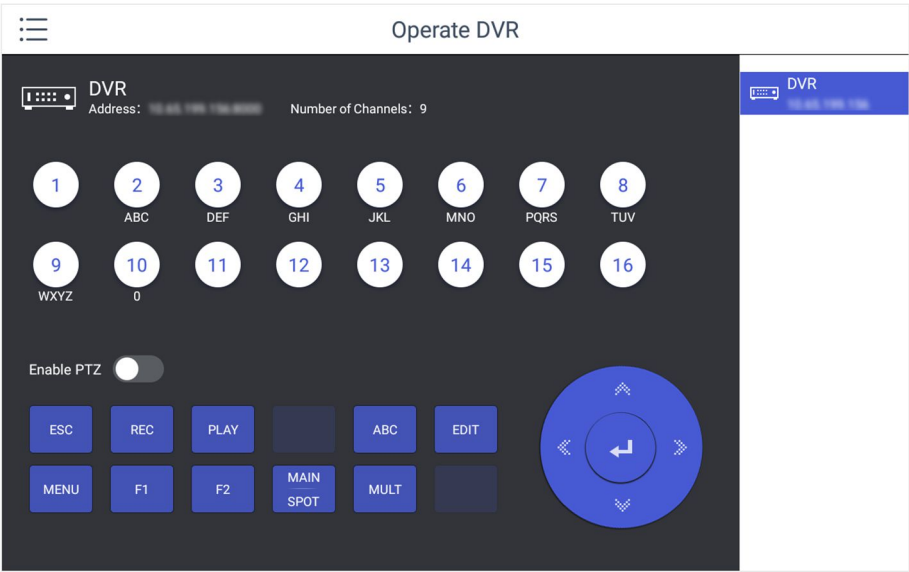


Figure 4-18 DVR/NVR Remote Panel

6. Optional: You can switch on **Enable PTZ** to achieve functions such as PTZ control, iris control, focus, wiper, light, etc.

Note

Ensure the device that connects to DVR/NVR device supports PTZ control operation.



Figure 4-19 Enable PTZ

Table 4-1 Panel Description

Name	Function Description
ESC	Returns to the previous menu.
	Presses for arming/disarming the device in live view mode.
REC/SHOT	Enters the Manual Record settings menu.
	Presses this button followed by a numeric button to call a PTZ preset in PTZ control settings.
	Turns audio on/off in the playback mode.
PLAY/AUTO	Enters the playback mode.
	Automatically scans in the PTZ control menu
ZOOM+	Zooms in the PTZ camera in the PTZ control setting.
ABC/FOCUS+	Adjusts focus in the PTZ Control menu.
	Switches between input methods (upper and lower case alphabet, symbols and numeric input).
EDIT/IRIS+	Edits text fields. When editing text fields, it also deletes the character in front of the cursor.
	Checks the checkbox in the checkbox fields.
	Adjusts the iris of the camera in PTZ control mode.
	Generates video clips for backup in playback mode.
	Enters/exits the folder of USB device and eSATA HDD.
MAIN/SPOT/ZOOM-	Switches between main and spot output.
	Zooms out the image in PTZ control mode.
F1/ LIGHT	Selects all items on the list when used in a list field.
	Turns on/off PTZ light (if applicable) in PTZ control mode.
	Switches between play and reverse play in playback mode.
F2/AUX	Cycles through tab pages.
	Switches between channels in synchronous playback mode.
MENU/WIPER	Returns to the Main menu (after successful login).
	Presses and holds the button for five seconds to turn off audible key beep.
	Starts wiper (if applicable) in PTZ control mode.
	Shows/hides the control interface in playback mode.



Name	Function Description
MULT/FOCUS-	Switches between single screen and multi-screen mode.
	Adjusts the focus in conjunction with the A/FOCUS+ button in PTZ control mode.
IRIS-	Adjusts the iris of the PTZ camera in PTZ control mode.

4.6 Manage User

4.6.1 Add New Users with Admin Account

Multiple user accounts can be added to operate the keyboard. The admin user is assigned with the highest permissions, including viewing/deleting user accounts, adding devices to the users, and changing password. For the operator, you can view your assigned devices and change your own password.

Steps

1. Click **Keyboard**.
2. Click .
3. Click **User**.
4. Click  to add new user.
5. Enter the user name and password.

Caution

STRONG PASSWORD RECOMMENDED-We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

6. Click **Add**.
7. Select camera(s) from the device list to assign user device permission.
8. Click **Save** to save the settings.

Note

You can have only 1 admin user account and up to 31 operator accounts.

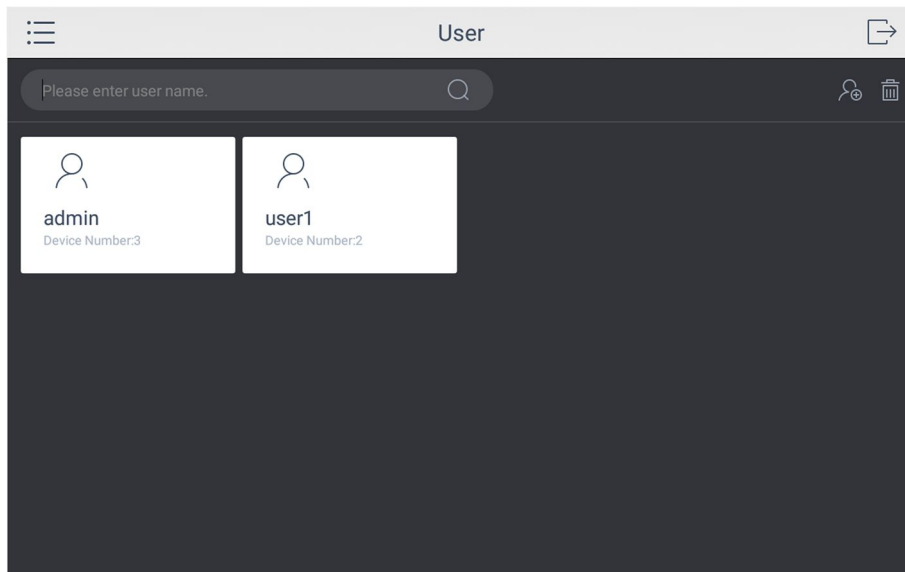


Figure 4-20 User Management


4.6.2 Edit User Accounts by Administrator

The administrator has the highest operation permissions that can change the settings of all other operators, including assigning device permission to the operator, and changing the password of other operator accounts.

Before You Start

Make sure you log in with the admin account.

Steps

1. Click **Keyboard**.
2. Click .
3. Click **User**.
4. Select a user account as you desired.
5. You can change password or assign device permission to the user account.

Edit password

1. Click **Edit**.
2. Enter new password twice.
3. Click **Save** to confirm.

Edit device permission

1. Click **Device**.
2. Select device permission for the account.
3. Click **Save**.

5 Control Platform

You can connect the keyboard to platforms to play live video on video wall or watch live video on the local keyboard interface.

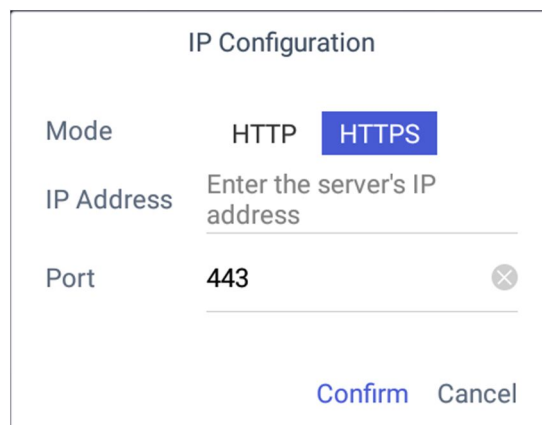
5.1 Control iSecure

You can connect the keyboard to iSecure platform to play live video on video wall, watch live video or watch video playback on the local keyboard interface.

5.1.1 Login

Steps

1. Tap **iSecure** on the main page.
2. Tap **IP Configuration**.
3. Select **HTTP** or **HTTPS** mode, enter the server's **IP Address**, and tap **Confirm**.

A screenshot of the 'IP Configuration' dialog box. The title 'IP Configuration' is at the top. Below it, there are three rows: 'Mode' with 'HTTP' and 'HTTPS' buttons (HTTPS is selected), 'IP Address' with a text input field containing the placeholder 'Enter the server's IP address', and 'Port' with a text input field containing '443' and a close icon (X). At the bottom right, there are 'Confirm' and 'Cancel' buttons.

IP Configuration	
Mode	HTTP HTTPS
IP Address	Enter the server's IP address
Port	443 ✕
Confirm Cancel	

Figure 5-1 IP Configuration

4. Enter the server's user name and password.

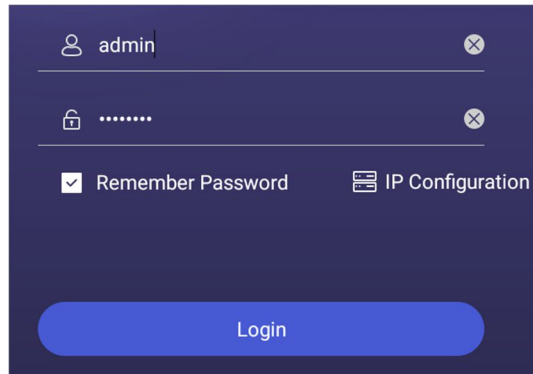




Figure 5-2 Login

5. Optional: Check **Remember Password** to log in with no need to enter password next time.
6. Tap **Login**.

5.1.2 Display a Camera on Video Wall

Steps

1. Tap  on the iSecure main page, and select **Video Wall**.
2. Tap  in the upper-right corner and select **Video Wall**, and select the video wall that you want to configure.

All video wall resources from the platform will be listed in **Video Wall**.

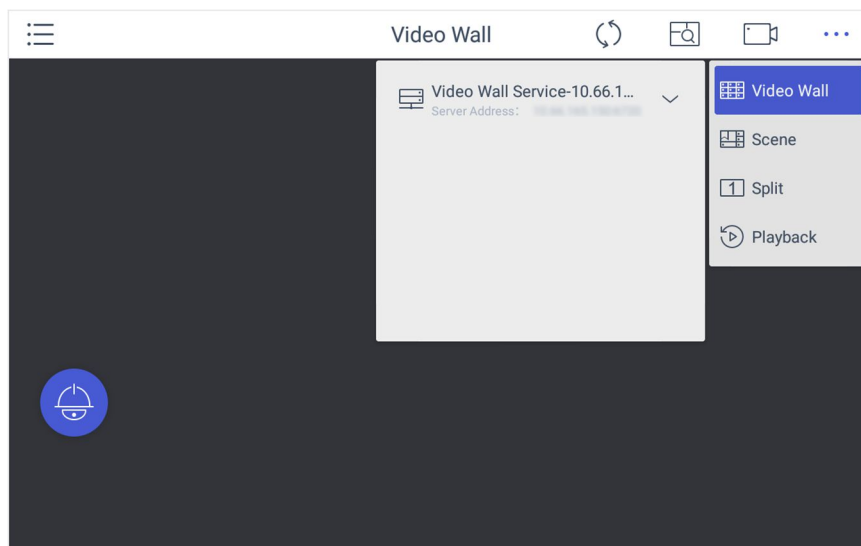











Figure 5-3 Video Wall

3. Optional: Tap  to select desired scene from **Scene** list.
4. Optional: Tap  and select **Split** to split the output window.
5. Tap  to play the live video of corresponding camera on the window. You can choose one of the following ways:
Tap **Shortcut**, and enter the serial number in the numeric panel, and tap . Tap **List**, and select a camera to display.

You can also perform the following operations:

- Enter 0+ to stop playing the live video of corresponding camera on the window.
- Tap  to preview the live video of the previous input camera channel on the selected output monitor.
- Tap  to preview the live video of the next input camera channel on the selected output monitor.

6. Other operations:

- Tap  and use the smart scaling function to select and zoom in the desired wall area. For details about the operation, see [Smart Scaling on Video Wall](#)
- .
- Tap  to perform PTZ control. For details, see **PTZ Control** for specifications.

5.1.3 Local Live View

Steps

1. Tap  and select **Live View** to go to the local live view.

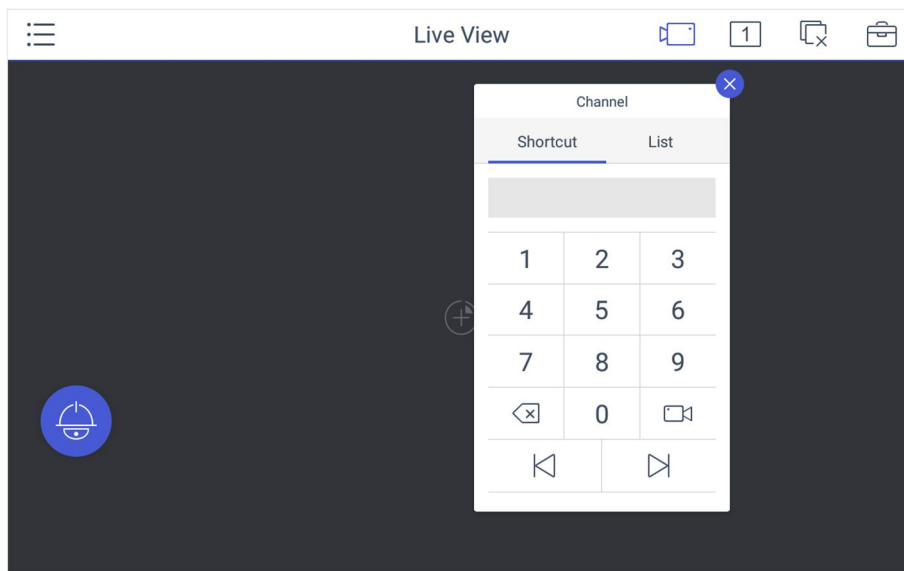


Figure 5-4 Live View


2. Optional: Tap  to select the window division mode.

Note




You can also preview the window first and then split the window. In this situation, the previewed window is on the upper-left by default.



3. Select a channel, and tap .

4. Watch the live view.

Tap **Shortcut**, and enter the serial number in the numeric panel, and tap . Tap **List**, and select a channel to preview.

5. Optional: Switch the channel.

Enter 0+ to stop previewing. Tap  to preview the live video of the previous input camera channel on the selected output monitor. Tap  to preview the live video of the next input camera channel on the selected output monitor.

6. Optional: Tap  to close all the live view windows. You can tap  to perform the following operations.

Icon	Description
------	-------------

Full	<ul style="list-style-type: none">● Tap Full to have a full-screen preview of the live video of corresponding camera on the window.● Double-tap the window to have a full-screen preview.
-------------	---

Capture	Select a window and tap Capture to save pictures to a USB flash drive or FTP server.
----------------	---

Note

You can also press the button on the joystick to capture pictures.

Record	Select a window and tap Record to save records to a USB flash drive or FTP server.
---------------	---



View	Tap View to view parameters of the camera on live view.
-------------	--

Note

If you perform operations of capturing pictures or recording videos, make sure to connect the keyboard with a USB flash drive, or provide a valid and correct network connection between PC (running FTP server) and the keyboard, and set the FTP parameters of keyboard correctly. Refer to Set Storage for FTP configuration.

5.1.4 Video Wall Playback

Steps

1. Tap  on the iSecure main page, and select **Video Wall**.
2. Select a display window, tap  in the upper-right corner, and select **Playback**.

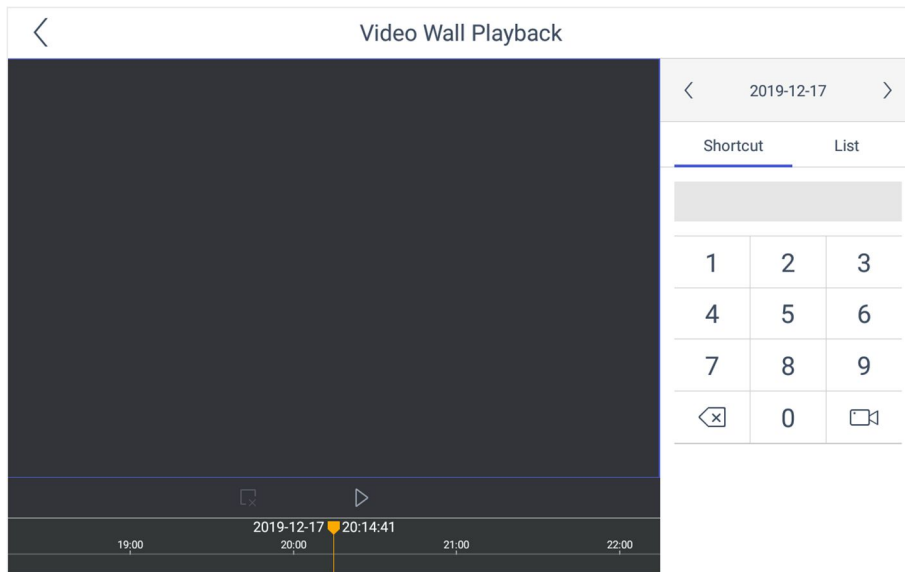


Figure 5-5 Video Wall Playback

3. Select the date.
4. Select the channel. You can choose one of the following ways.
Tap **Shortcut**, and enter the serial number in the numeric panel, and tap . Tap **List**, and select the desired channel.
5. Drag the slider to set required playback time and play from the start time by default.
6. Use the toolbar to perform playback operations.

Icon	Description
	Pause/Start
	Stop

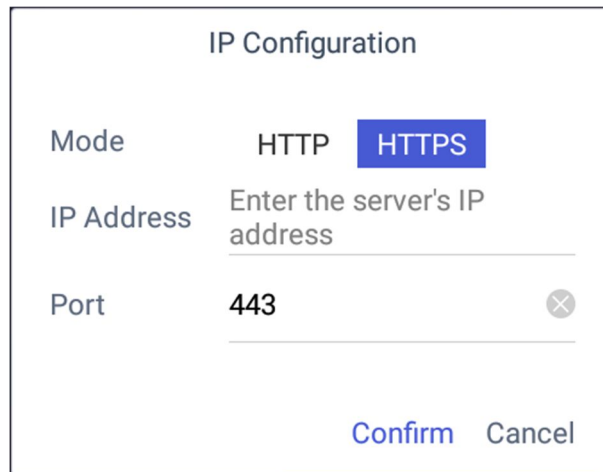
5.2 Control VMS

You can connect the keyboard to **VMS** platform to play live videos on the video wall, watch video playback or watch live video locally.

5.2.1 Login

Steps

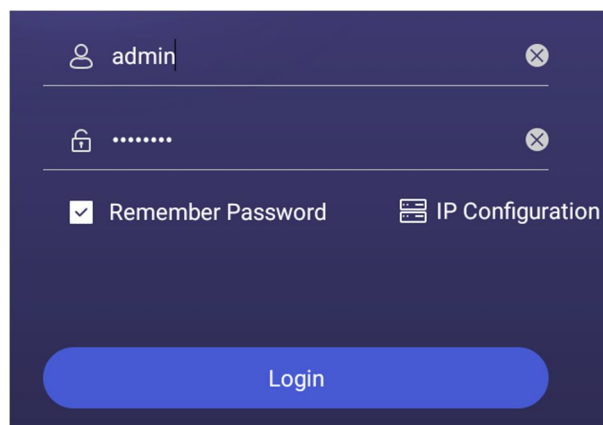
1. Tap **VMS** on the main page.
2. Tap **IP Configuration**.
3. Select **HTTP** or **HTTPS** mode, enter the server's **IP Address**, and tap **Confirm**.



The image shows a dialog box titled "IP Configuration". It contains three fields: "Mode" with "HTTP" and "HTTPS" buttons (HTTPS is selected), "IP Address" with a text input field and a placeholder "Enter the server's IP address", and "Port" with a text input field containing "443" and a clear button (X). At the bottom right are "Confirm" and "Cancel" buttons.

Figure 5-6 IP Configuration

4. Enter the server's user name and password.





The image shows a login dialog box with a dark blue background. It has two input fields: the first contains "admin" and the second contains masked characters ".....". Below the fields are a "Remember Password" checkbox (checked) and a label "IP Configuration" with a document icon. At the bottom is a large blue "Login" button.

Figure 5-7 Login

5. Optional: Check **Remember Password** to log in with no need to enter password next time.
6. Tap **Login**.

5.2.2 Display a Camera on Video Wall

Steps

1. Tap VMS  on the iSecure main page, and select **Video Wall**.
2. Tap  in the upper-right corner and select **Wall**, and select the video wall that you want to configure.
All video wall resources from the platform will be listed in **Wall**.

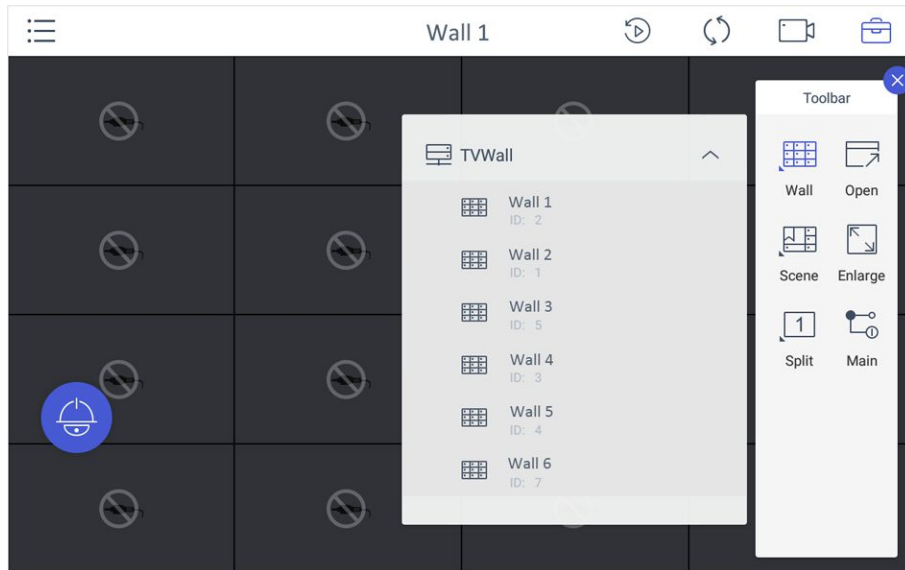


Figure 5-8 Video Wall

3. Optional: Tap to select desired scene from **Scene** list.
4. Optional: Tap and select **Split** to split the output window.
5. Tap to play the live video of corresponding camera on the window. You can choose one of the following ways:
Tap **Shortcut**, and enter the serial number in the numeric panel, and tap . Tap **List**, and select a camera to display.

You can also perform the following operations:

- Enter 0+ to stop playing the live video of corresponding camera on the window.
 - Tap to preview the live video of the previous input camera channel on the selected output monitor.
 - Tap to preview the live video of the next input camera channel on the selected output monitor.
6. Other operations:
 - Select a non-BNC window, tap and select **Open** to open a new window above non-roaming windows.
 - Tap to perform PTZ control. For details, see **PTZ Control** for specifications.
 - Select a window and tap **Enlarge** to enlarge the window.
 - Select a window and tap **Main** to switch the stream type.

5.2.3 Local Live View

Steps

1. Tap and select **Live View** to go to the local live view.

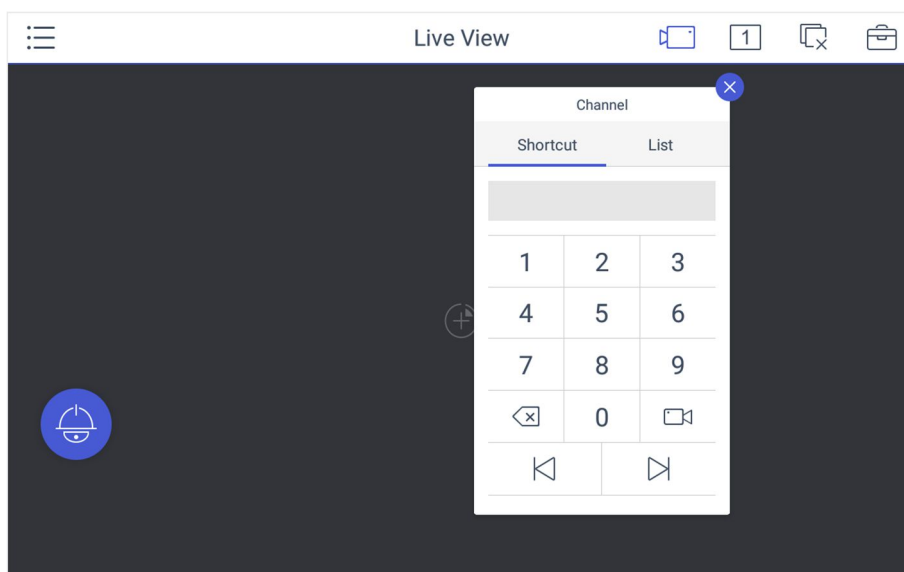


Figure 5-9 Live View


2. Optional: Tap  to select the window division mode.

Note




You can also preview the window first and then split the window. In this situation, the previewed window is on the upper-left by default.



3. Select a channel, and tap .

4. Watch the live view.

Tap **Shortcut**, and enter the serial number in the numeric panel, and tap . Tap **List**, and select a channel to preview.

5. Optional: Switch the channel.

Enter 0+ to stop previewing. Tap  to preview the live video of the previous input camera channel on the selected output monitor. Tap  to preview the live video of the next input camera channel on the selected output monitor.

6. Optional: Tap  to close all the live view windows. You can tap  to perform the following operations.

Icon

Description

Full

- Tap **Full** to have a full-screen preview of the live video of the corresponding camera on the window.
- Double-tap the window to have a full-screen preview.

Capture

Select a window and tap **Capture** to save pictures to a USB flash drive or FTP server.

Note

You can also press the button on the joystick to capture pictures.

Record

Select a window and tap **Record** to save records to a USB flash drive or FTP server.

View


Tap **View** to view parameters of the camera on live view.

Note

If you perform operations of capturing pictures or recording videos, make sure to connect the keyboard with a USB flash drive, or provide a valid and correct network connection between PC (running FTP server) and the keyboard, and set the FTP parameters of keyboard correctly. Refer to Set Storage for FTP configuration.

5.2.4 Video Wall Playback

Steps

1. Tap  in the upper-right corner to watch video wall playback.

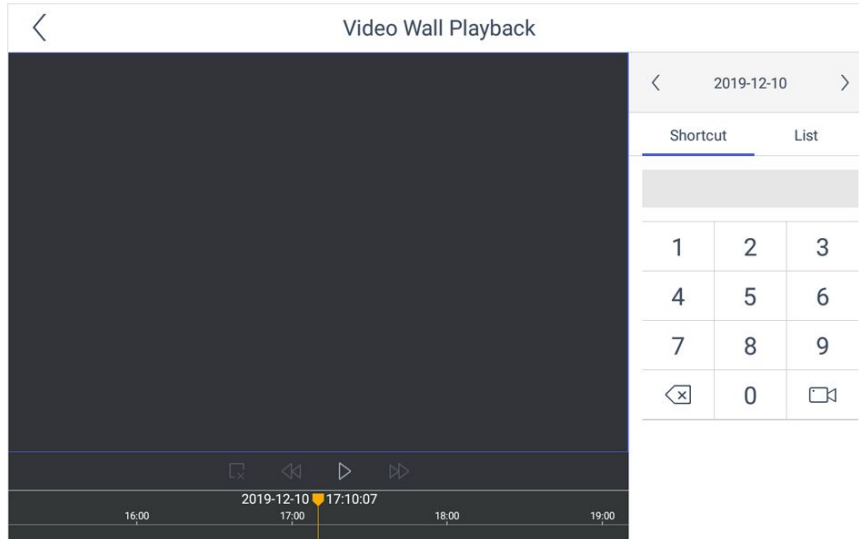







Figure 5-10 Video Wall Playback

2. Select the date.
3. Select the channel. You can choose one of the following ways.
Tap **Shortcut**, and enter the serial number in the numeric panel, and tap . Tap **List**, and select the desired channel.
4. Drag the slider to set required playback time and play from the start time by default.

5. Use the toolbar to perform playback operations.

Icon	Description
	Pause/Start
	Fast forward speed; you can also move the joystick right to fast forward the video.
	Slow forward speed; you can also move the joystick left to slow forward the video.
	Stop

5.3 Control KPS

You can connect the keyboard to KPS platform to play live videos on the video wall.

Steps

1. Click KPS on the home page.
2. Enter **Server IP**, **Port**, **User Name**, and **Password** to log in the platform.
3. Click **Login** to enter the platform interface.

Note

You can check **Remember Password** to remember the login password in next time.

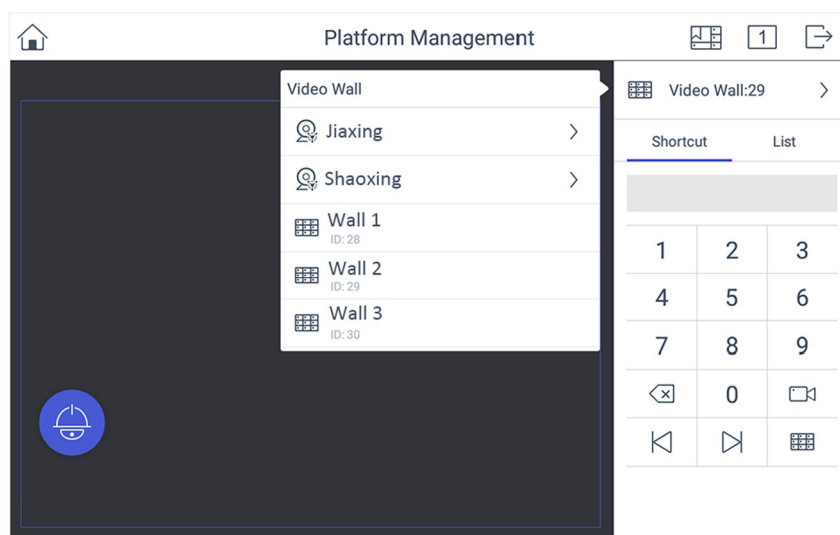






Figure 5-11 Platform Management

4. Click  in the upper-right corner and select **Video Wall**, and select the video wall that you want to configure.






Note

All video wall resources from the platform will be listed in **Video Wall**.

5. Click **Shortcut**, enter the serial number of window and click  to select the window.
6. Select a camera to play on video wall.
 - 1) Select an output window on the video wall to play the camera.
 - 2) Click , enter the serial number in the numeric panel, and click  to play the live video of corresponding camera on the window.

Note

You can also select from **List**.

7. Optional: Click  or  to preview the live video of the previous or next input camera channel on the selected output monitor.
8. Optional: Click  to select desired scene from **Scene** list.
9. Optional: Click  to split the output window.
10. Optional: Click  to perform PTZ control. For details, see **PTZ Control** for specifications.

6 Control Matrix

The keyboard can connect to matrix to control video display on video wall.

Before You Start

Make sure you have appropriately configured the network of keyboard and matrix.

Steps

1. Click **Matrix** on the home page.
2. Enter **Server IP**, **Port**, **User Name**, and **Password** of the matrix.

Note

You can check **Remember Password** to log in with no need to enter password next time.

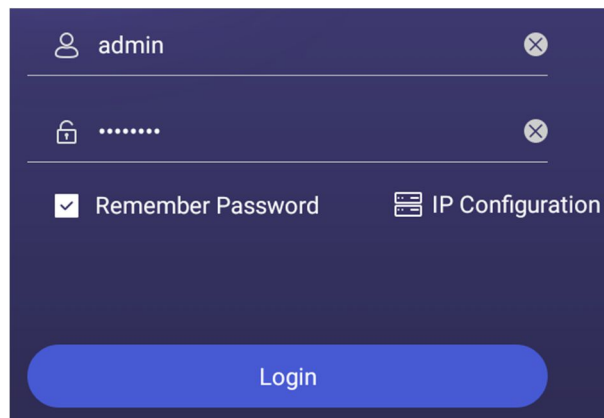





Figure 6-1 Login Matrix

3. Click **Login**.
4. Choose output monitor and input channel.
 - 1) Enter the serial number of the output monitor in the numeric panel, and click .
 - 2) Enter the serial number of the input channel in the numeric panel, and click .
 - 3) Optional: You can click  delete the information if you find anything wrong.

Note

The information of the output window and the input channel appears on the interface.

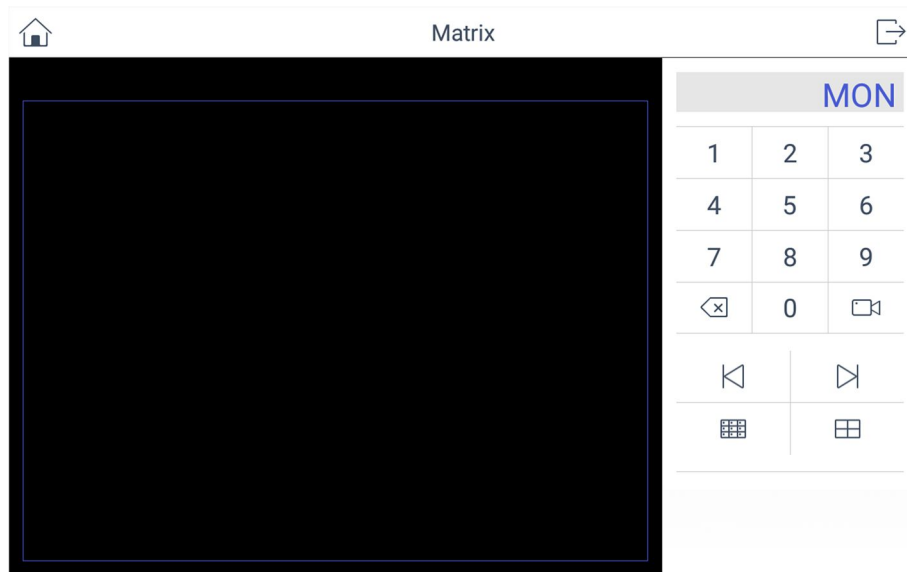





Figure 6-2 Monitor Interface

5. Optional: You can enter the number in numeric panel, and click  to split the window into multiple screens.
6. Optional: You can click  or  to view previous or next input camera channel on the selected output window.

For information about matrix access gateway operation, refer to its user manual.

7 Configure Web

You can add devices, manage channels or configure basic parameters through the web interface of the network keyboard. It is convenient to remotely configure and maintain the network keyboard.

7.1 Login

Before You Start

Ensure that the network keyboard is connected to the network and the IP address of the network keyboard is obtained.

Steps

1. Open the browser, enter the IP address of the network keyboard (HTTPS://IP address) in the address bar, and enter the login interface.

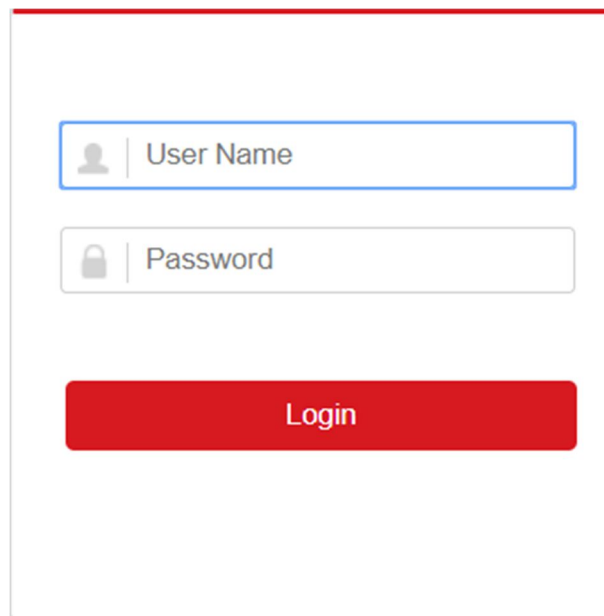
A screenshot of a web login interface. It features a light gray background with a white login box. Inside the box, there are two input fields: the top one is labeled 'User Name' with a user icon on the left, and the bottom one is labeled 'Password' with a lock icon on the left. Below these fields is a prominent red button with the word 'Login' in white text.

Figure 7-1 Login

2. Enter user name and password.
3. Click **Login**.

7.2 Add Devices

7.2.1 Manually Add

You can add devices to the network keyboard on Web.

Steps

1. In **Device Management** interface, click **Add**.
2. Enter **IP Address**, **Port**, **User Name** and **Password**, and select protocol type.

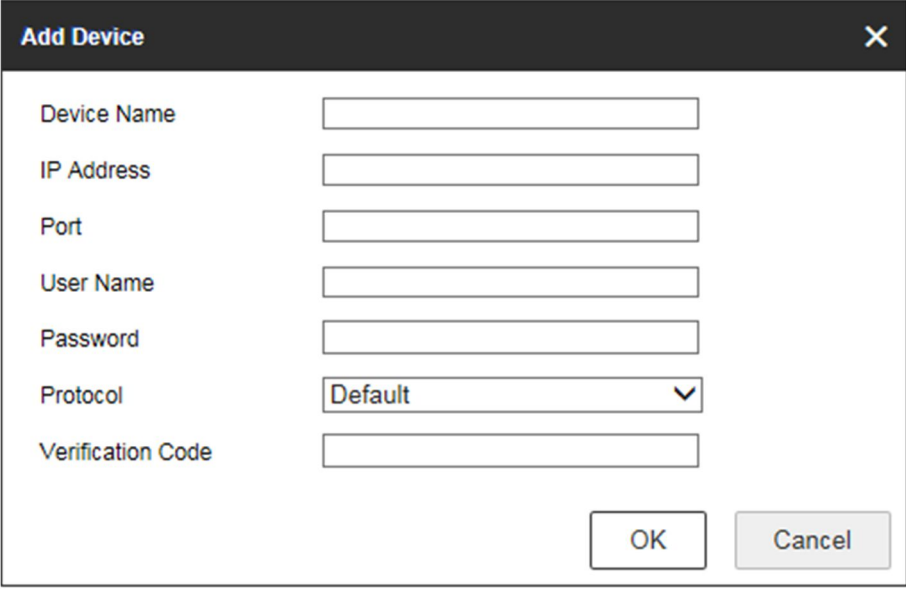
A screenshot of a web-based 'Add Device' dialog box. The dialog has a dark header bar with the title 'Add Device' and a close button (X) on the right. Below the header, there are seven input fields arranged vertically: 'Device Name', 'IP Address', 'Port', 'User Name', 'Password', 'Protocol' (which is a dropdown menu currently showing 'Default' with a downward arrow), and 'Verification Code'. At the bottom right of the dialog, there are two buttons: 'OK' and 'Cancel'.

Figure 7-2 Add Device by IP Address

3. If you enable stream encryption for the device, you need to enter the verification code when adding the device by IP address.
4. Optional: In **Device Management** interface, click **Add SADP**, enter user name and password, check the device to be added, and click **OK** to add online devices on the same network segment.

[illegible]

Figure 7-3 Add SADP

Note

- SADB search can only add devices in the same network segment.
- After adding devices in batches by SADB, you need to refresh manually to get the added devices.

7.2.2 Import Input Channels in Batches

Before You Start

1. Add several devices manually. Go to **Channel Management** → **Input Channel**, click **Export**, enter password, and then export channel information.
2. Edit the device channel information based on the exported template, and save the exported channel information into the local PC.

Steps

1. Go to **Channel Management** → **Input Channel**.
2. Click **Import**.

The dialog box titled "Import Input Channels List (Excel)" contains two input fields: "Input Channel File" and "Password". The "Input Channel File" field has a "Browse" button to its right. Below these fields are "OK" and "Cancel" buttons.

Figure 7-4 Import Input Channel in Batches

3. Click **Browse** and select the imported template.
4. Enter password and click **OK**.

The channels in the template will be added into network keyboards.

7.3 Channel Management

7.3.1 Edit Channel

Steps

1. Go to **Channel Management** → **Input Channel**.

Note

Input and output channels can be edited. This section takes input channels as an example.

2. Select the input channel to be edited and click **Edit**.

The dialog box titled "Edit Input Channel" contains four input fields: "Input Channel ID" (value: 14), "Channel Name" (value: Camera 01), "Stream Type" (dropdown menu showing "Main Stream"), and "Transmission Protocol" (dropdown menu showing "TCP"). "OK" and "Cancel" buttons are at the bottom right.

Figure 7-5 Edit Input Channel

3. Edit channel parameters.

Input Channel ID

Each input channel corresponds to a unique number, which is valid for video wall and local live view.

Stream Type

Code stream for local live view and video wall preview.

Transmission Protocol

Available for video wall preview.

4. Click **OK**.

7.3.2 Camera Group

Camera group enables you to preview a group of cameras (input channels) in sequence.

Steps

1. Go to **Channel Management** → **Camera Group**.
2. Click **Add**.

[illegible]

Figure 7-6 Add Camera Group

3. Enter **Name** and **Interval(s)**.
4. Check input channels to be linked and click **OK**.

Note

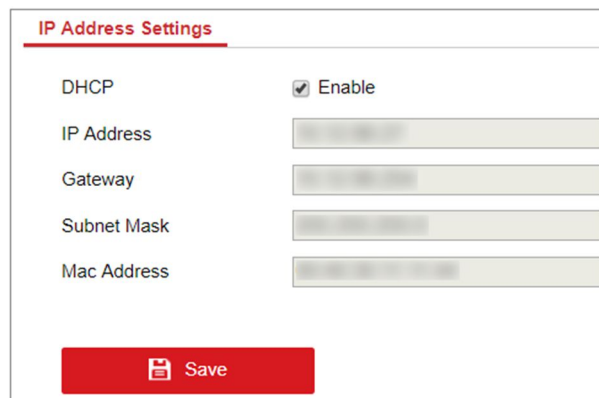
- Up to 16 camera groups can be added.
- Each camera group can link up to 64 input channels.
- Interval range: 10 to 10000 seconds.
- The camera groups set by different users are independent. Namely, users can only view and edit their own camera groups.

5. Click **Edit** in **Camera Group** interface, uncheck input channels to be unlinked and click **OK** to unlink the input channel.

7.4 Network

Steps

1. Select **Network Management** at the main interface.
2. Configure network parameters.
 - Check **DHCP** to obtain IP address and related network parameters automatically.
 - Uncheck **DHCP** and enter IP address, gateway, subnet mask.
3. Click **Save**.



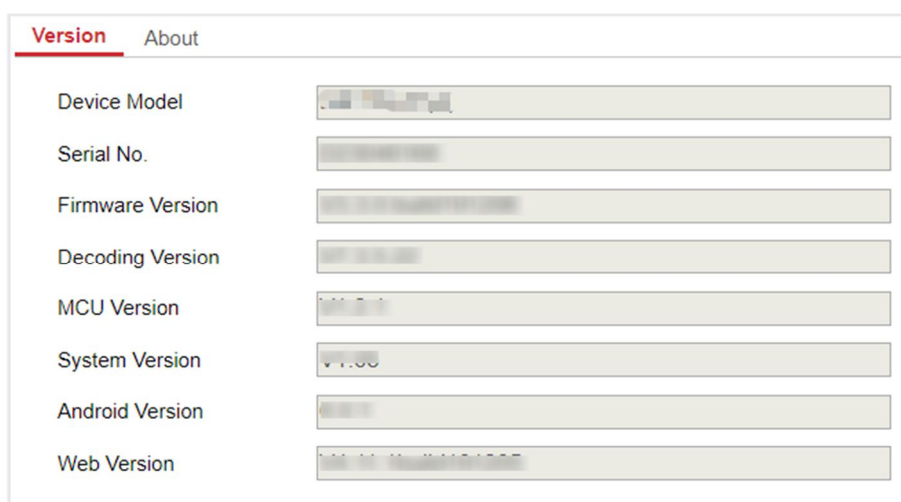
The image shows a web form titled "IP Address Settings". It contains a "DHCP" checkbox which is checked and labeled "Enable". Below this are five input fields: "IP Address", "Gateway", "Subnet Mask", and "Mac Address". At the bottom of the form is a red button with a save icon and the text "Save".

Figure 7-7 Network Parameters

7.5 System Settings

7.5.1 Version

Go to **System Management** → **Version** to view system version information.



The image shows a web page titled "Version" with a sub-tab "About". It displays a list of system information items, each with a corresponding input field: "Device Model", "Serial No.", "Firmware Version", "Decoding Version", "MCU Version", "System Version", "Android Version", and "Web Version".

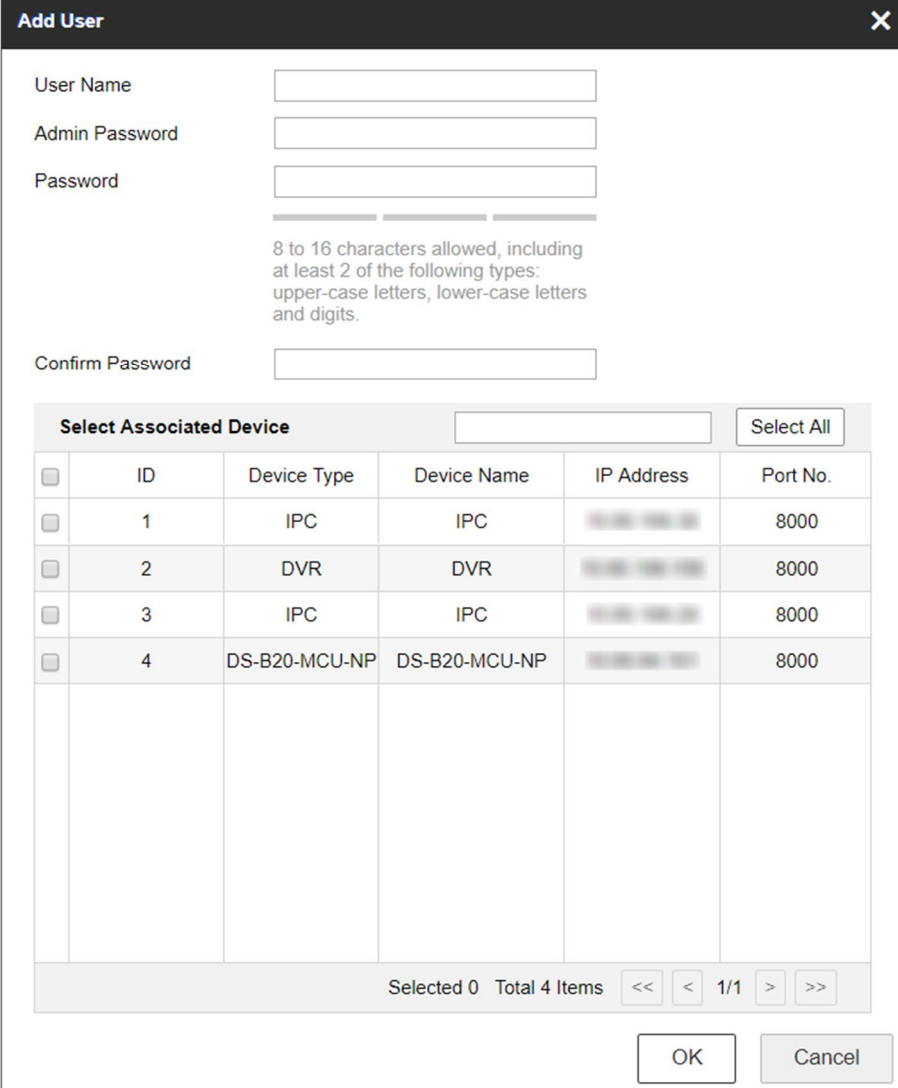
Figure 7-8 Version

7.5.2 User Management

Administrator can add operator and allocate devices to the operator. Operators can operate the allocated devices, but cannot add, edit, or delete devices.

Steps

1. Go to **System Management** → **User Management**.
2. Click **Add**.



The 'Add User' dialog box contains the following fields and components:

- User Name**: Text input field.
- Admin Password**: Text input field.
- Password**: Text input field with a strength indicator (three bars) below it.
- Password Hint**: Text area with the message: "8 to 16 characters allowed, including at least 2 of the following types: upper-case letters, lower-case letters and digits."
- Confirm Password**: Text input field.
- Select Associated Device**: Section containing a search input field, a "Select All" button, and a table of available devices.

<input type="checkbox"/>	ID	Device Type	Device Name	IP Address	Port No.
<input type="checkbox"/>	1	IPC	IPC	192.168.1.10	8000
<input type="checkbox"/>	2	DVR	DVR	192.168.1.10	8000
<input type="checkbox"/>	3	IPC	IPC	192.168.1.10	8000
<input type="checkbox"/>	4	DS-B20-MCU-NP	DS-B20-MCU-NP	192.168.1.10	8000

Selected 0 Total 4 Items << < 1/1 > >>

OK Cancel

Figure 7-9 Add User

3. Enter user name and password for an operator, and click **OK**.

Caution

We highly recommend you create a strong password of your own choosing (Using a minimum of 8 characters, including at least three of the following categories: upper case letters, lower case letters, numbers, and special characters.) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

4. Check devices to be linked as desired and click **OK**.

Note

- Keyboard supports up to 32 users: 1 administrator and 31 operators.
 - The operator can only operate on the devices allocated.
-

5. Optional: Click **Edit**, uncheck the devices to be unlinked and click **OK** to unlink the devices.

7.5.3 System Maintenance

Go to **System Management** → **System Maintenance** to restart the device, restore defaults, export/import configuration file, etc.

Note

Restoring default settings, importing/exporting configuration files, and remote upgrades require the administrator password to be verified.

Restart

You can restart the network keyboard.

Restore Defaults

- **Simply Restore:** Keep the activation state (administrator password) and the network parameters of the network keyboard, and the remaining parameters will be restored to the default settings.
- **Completely Restore:** Completely restore the parameters to default settings.

Import/Export Configuration File

You can export the configuration file to the computer or import the configuration file from the computer to the keyboard. In case of keyboard failure, you need to back up the data by exporting the configuration file first, and then repair the failure. To copy the data of this keyboard to another keyboard, you can also import/export the configuration file.

Note

- Please set the key for the configuration file when exporting it.
 - The configuration file encrypted and exported is named as configurationData.bin.
 - If the configuration file is encrypted, you need to enter the key of the configuration file when
-

importing it.

Remote Upgrade

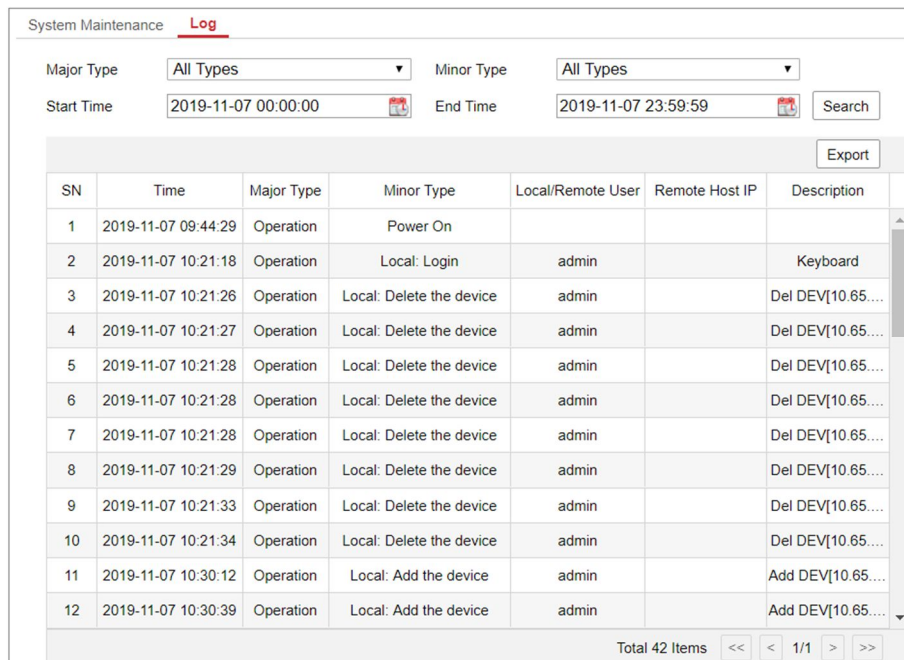
Click **Browse** to select the upgrade file in the computer, and click **Upgrade** to upgrade the network keyboard remotely.

Note

The upgrade file must be named as GD-KB-AT2430P.apk.

7.5.4 Log Management

Go to **System Management** → **System Maintenance** → **Log**, select the major and minor types and start and end time of the log, and then search and export the log.



SN	Time	Major Type	Minor Type	Local/Remote User	Remote Host IP	Description
1	2019-11-07 09:44:29	Operation	Power On			
2	2019-11-07 10:21:18	Operation	Local: Login	admin		Keyboard
3	2019-11-07 10:21:26	Operation	Local: Delete the device	admin		Del DEV[10.65...
4	2019-11-07 10:21:27	Operation	Local: Delete the device	admin		Del DEV[10.65...
5	2019-11-07 10:21:28	Operation	Local: Delete the device	admin		Del DEV[10.65...
6	2019-11-07 10:21:28	Operation	Local: Delete the device	admin		Del DEV[10.65...
7	2019-11-07 10:21:28	Operation	Local: Delete the device	admin		Del DEV[10.65...
8	2019-11-07 10:21:29	Operation	Local: Delete the device	admin		Del DEV[10.65...
9	2019-11-07 10:21:33	Operation	Local: Delete the device	admin		Del DEV[10.65...
10	2019-11-07 10:21:34	Operation	Local: Delete the device	admin		Del DEV[10.65...
11	2019-11-07 10:30:12	Operation	Local: Add the device	admin		Add DEV[10.65...
12	2019-11-07 10:30:39	Operation	Local: Add the device	admin		Add DEV[10.65...

Figure 7-10 View Logs

7.5.5 Security Settings

Go to **System Management** → **Security Settings**, and enable SADP. When you enable SADP, the keyboard can be searched. When you disable SADP, the keyboard cannot be searched.

8 Configure System

For Ethernet and WLAN configuration, refer to *Set Wired Network* and *Set Wireless Network*.

8.1 Set Language

You can choose the device language.

Steps

1. Click **System Settings** → **Language**.
2. Select the system language as you desired.


8.2 Set Date and Time


You can set date and time and select time zone by configuring the parameters.

Steps

1. Click **System Settings** → **Date & Time**.
2. You can set the system date and time in two ways.

Automatic mode Enable **Auto-obtain**.

- Manual mode**
1. Disable **Auto-obtain**.
 2. Click  at **Date & Time**.
 3. Set time as you desired.
 4. Click **Confirm**.

3. You can select time zone for your keyboard system.
 - 1) Click  at **Time Zone**.
 - 2) Select time zone as you desired.

8.3 Set Storage

The keyboard has no hard disk for storage, you can configure the FTP server parameters in **Storage** interface or you can connect a USB flash drive for storage.

Before You Start

Ensure the network connection of the PC (running FTP server) and the device is valid and correct. Run the FTP server on the PC.

Steps

1. Click **System Settings** → **Storage**.

2. Switch on **FTP server**.
3. Enter **Address, Folder, User Name, and Password** of the FTP server.

Note

A new folder will be created in the directory.

4. Click **Save**.

8.4 Maintenance

For the admin user account, you can import and export the configuration files, and restore the defaults of local configurations. The import and export operation allows you to duplicate system settings from one device to another, which is a convenient way to configure your device.

Steps

1. Click **System Settings** → **Maintenance**.
2. Perform the following operations as demand.

Configure File (Import)

Enter the admin password, and the USB flash drive will pop up. Import the configuration file (configurationData.db) from the USB flash drive.

Configure File (Export)

Enter the admin password, and the USB flash drive will pop up. Set the key and export the configuration file (configurationData.db) to the USB flash drive.

Restore Default (Simple)

Restore the defaults of local configurations except the network, admin password.

Note

It is recommended to export the configuration file first before restoring default.

Restore Default (Complete)

You can restore the defaults of all the local configurations except the network parameters and the device will become inactive status.

Note

- It is recommended to export the configuration file first before restoring default.
 - The default IP address is 192.0.0.64 after restoring default completely.
-

Log File (Export)

Export the log file to the USB flash drive.

8.5 Set Others

You can adjust screen brightness, lock screen time, enable/disable alarm sound, and choose the resolution of external monitor.

Steps

1. Click **System Settings** → **Others**.
2. Perform the following operations as demand.

Brightness

You can drag brightness slider to set it as you desired.

Auto-lock

Click  at **Auto-lock**.

Select the lock screen time as you desired.

Alarm Sound

You can enable/disable alarm sound at **Alarm Sound**.

External Monitor Resolution

Click  at **External Monitor Resolution**.

Display Video Only on Secondary Screen

When enabling **Display Video Only on Secondary screen**, live view and playback video will be shown on the secondary screen. And the operation will be shown on the keyboard.

Note

The alarm sound will be triggered when network is disconnected.

8.6 Upgrade Firmware

You can view keyboard version, access help document, and upgrade firmware by USB flash drive.

Steps

1. Click **System Settings** → **About**.
2. Click **Upgrade** and the system will automatically get upgrade firmware from USB flash drive.
3. You can click **Help** to access help document.

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