DS-1100KI & DS-1105KI Network Keyboard

User Manual

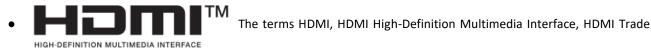# Legal Information

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Preface

This section is to ensure that you can avoid danger or property loss in the process of using the product. Before using the product, please read the user manual carefully and keep it for future reference.

Get More Information

Visit our website (http://www.hikvision.com/) for user manuals, application tools and development materials.

Applicable Model

This manual is applicable to DS-1100KI and DS-1105KI Network Keyboard.

Important Clause

Please strictly abide by the applicable laws and regulations for the use and maintenance of monitoring interface. It is illegal to use video monitoring device for illegal purposes, or to explore other people's privacy.

Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
⚠Danger	Indicates a hazardous situation which, if not avoided, will or could result in death or serious injury.
⚠Caution	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
📖iNote	Provides additional information to emphasize or supplement important points of the main text.

Operation Convention

The following operations may be found in this document are defined as follows.

Operation	Description
Press Number + REGION	● Press a numeric button and REGION button to select a region. ● Number represents region ID. Go to region menu for the ID.
Press Number + WALL	● Press a numeric button and WALL button to select a video wall. ● Number represents video wall ID. Go to video wall client for the ID.
Press Number + WIN	● Press a numeric button and WIN button to select a sub-window. ● In video wall mode, if the monitor is divided in to multiple windows, the number represents sub-window ID.
Press Number + MON	● If device is video wall or decoder: 　○ Press a numeric button and MON button to select a monitor. 　○ Number represents monitor ID. Go to video wall client for the ID. ● If device is video recorder: 　○ Press a numeric button and MON button to select an output channel. 　○ Number represents output channel ID. Go to **Keyboard → Channel → Output Channel** for the ID.
Press Number + CAM	● Keyboard mode: 　○ Press a numeric button and CAM button to select an output channel. 　○ Number represents input channel ID. Go to **Keyboard → Channel → Input Channel** for the ID. ● HikCentral/iSecure mode: 　○ Press a numeric button and CAM button to select a camera. 　○ Number represents camera ID. Check camera ID in resource list.
Press Number + CAM-G	● Press a numeric button and CAM-G button to select an input channel group. ● Number represents input channel group ID. Go to **Keyboard → Channel → Camera Group** for the ID.
Press Number + MACRO	● Press a numeric button and MACRO button to select a macro. ● Number represents macro ID. Go to **Keyboard → Macro** for the ID.
Press Number + GROUP	● Press a numeric button and GROUP button to select a group. ● Number represents group ID. Go to Keyboard > Group for the ID.
Press Number + MULT	● Press a numeric button and MULT button to divide monitor. ● Number represents sub-window quantity.

Operation	Description
Press Number + SCENE	● Press a numeric button and SCENE button to switch video wall scene. ● Number represents scene ID. Check the ID in video wall mode.

Contents

Chapter 1 Product Introduction

1.1 Introduction

DS-1100KI and DS-1105KI are network keyboard independently developed by Hikvision. It features in 7-inch full view multi-touch LCD screen and four-dimensional joystick. It supports network access to DVR, DVS, NVR, network camera, network dome, video integrated platform, decoder, iSecure, HikCentral and other platform software, with powerful functions and quick and simple operations. It can be widely used in finance, public security, telecommunication, transportation, electric power, education, water conservancy and other fields.

1.2 Panel Introduction
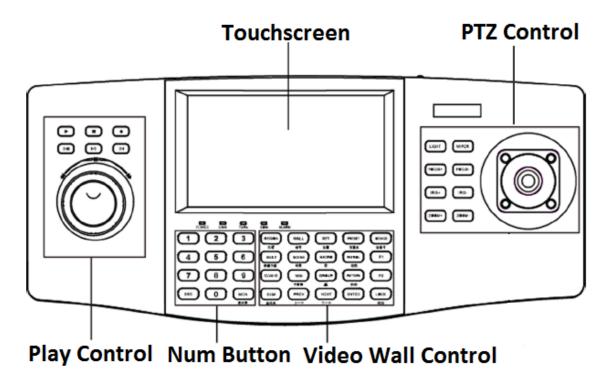
Figure 1-1 1100KI Panel Introduction

- Touchscreen: Control and display local menu.
- Play Control: Control the status of playback.
- Video Wall Control: Press numeric buttons and video wall control buttons to control video wall.
- PTZ Control: Control PTZ in the process of previewing domes.
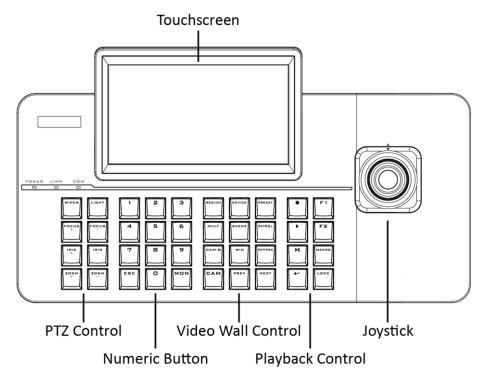
Figure 1-2 1105KI Panel Introduction

- Touchscreen: Control and display local menu.
- Playback Control: Use it with joystick to control the status of playback.
- Video Wall Control: Press numeric buttons and video wall control buttons to control video wall.
- PTZ Control: Use it with joystick to control PTZ in the process of previewing domes.
- Joystick: Press the button on the top of the joystick to capture the images in the live view or playback operation. Use the joystick to control PTZ.

1.3 Interface Introduction
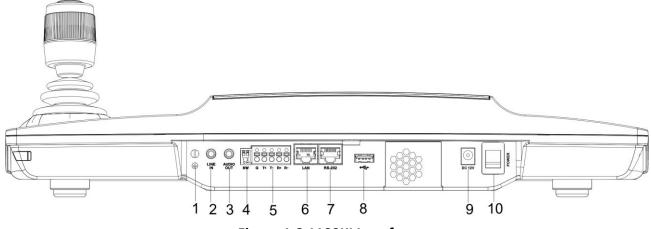
Figure 1-3 1100KI Interface

Table 1-2 1100KI Interface Description

| No.	Interface Name	Description
1	Grounding point	Connect the ground wire.
2	Audio Input Interface (LINE IN)	Connect the audio input cable.
3	Audio Output Interface (AUDIO OUT)	Connect the audio output cable.
4	Resistor Matching Switch of the RS-485 Interface (SW)	Push down the switch to turn on resistor matching. Push up the switch to turn off resistor matching.
5	RS-485 Interface	G: Connect the ground wire. T- and T+: Connect the external device that supports RS-485 protocol, such as speed dome and NVR. R- and R+: Connect the T- and T+ interfaces of another keyboard for keyboard cascade.
6	Network Interface (LAN)	Connect the Gigabit Ethernet cable.
7	RS-232 Interface	Connect the video conference camera that supports RS-232 protocol.
8	USB 2.0 Interface	Connect a USB drive formatted in FAT32.
9	12 VDC Power Supply Interface	Connect the power cord.
10	Power Switch	Press the switch to power on the keyboard.
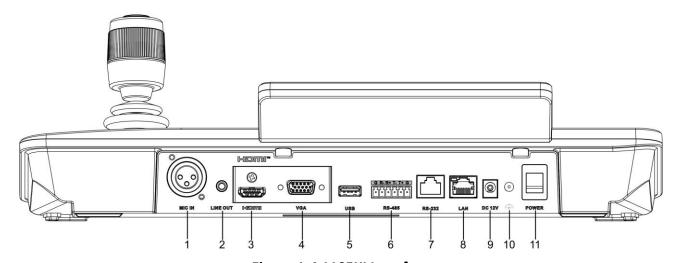
Figure 1-4 1105KI Interface

Table 1-2 1105KI Interface Description

No.	Interface Name	Description
1	Cannon Microphone Input Interface (MIC IN)	Connect the microphone.
2	Audio Output Interface (LINE OUT)	Connect the audio output cable.
3	HDMI Interface	Use the HDMI cable to connect the monitor.
4	VGA Interface	Use the VGA cable to connect the monitor.
5	USB 2.0 Interface	Connect a USB drive formatted in FAT32.
6	RS-485 Interface	G: Connect the ground wire. T- and T+: Connect the external device that supports RS-485 protocol, such as speed dome and NVR. R- and R+: Connect the T- and T+ interfaces of another keyboard for keyboard cascade.
7	RS-232 Interface	Connect the video conference camera that supports RS-232 protocol.
8	Network Interface (LAN)	Connect the Gigabit Ethernet cable.
9	12 VDC Power Supply	Connect the power cord.
10	Grounding point	Connect the ground wire.
11	Power Switch	Press the switch to power on the keyboard.

⭐**Note**

RS-232 interface uses the RJ-45 jack, whose pins 2, 3, and 7 represent RX, TX, and GND. When inserting an RJ-45 connector into the RS-232 interface, make sure RX, TX, and GND lines of the RS-232 interface are connected to TX, RX, and GND lines of the RJ-45 connector.

Chapter 2 Activation

You can activate network keyboard via local menu, SADP client or Web interface.

2.1 Local Menu Activation

For the first-time access, you need to activate the network keyboard by setting an admin password.

Steps

1. Connect your network keyboard power supply to an electrical outlet, and turn on the network keyboard.
   The activation interface will be popped up automatically.
2. Set password and confirm it.

⚠️**Caution**

- Passwords are divided into 4 types: digits, lowercase letters, uppercase letters, and special symbols. Passwords are classified into 4 levels:

  - Level 0 (risky password): password length < 8 or only one type of character.

  - Level 1 (weak password): password length ≥ 8 and two types of characters. The character combination includes digits + lowercase letters and digits+ upper case letters.

  - Level 2 (medium password): password length ≥ 8 and two types of characters. The character combination cannot be digits + lowercase letters or digits+ upper case letters.

  - Level 3 (strong password): password length ≥ 8 and three types of characters.

- Do not use the risky passwords. To better protect your product, reset your password regularly.
- The password cannot contain the user name in the forward order and backward order (when the user name length is more than 3), 123, admin (case insensitive), a string of at least four consecutive digits (such as 1234, 12345, 4321, etc.), a string of at least four repeating characters (such as 1111, 8888, aaaa, etc.).
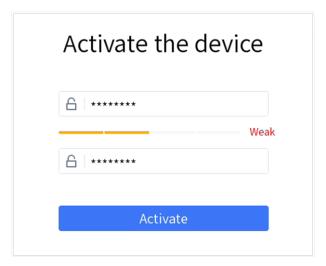- The password cannot be 1qaz2wsx, 1qaz@WSX, !@#$QWER, p@ssword, passw0rd, or p@ssw0rd.

Figure 2-1 Activation

3. Tap **Activate**.

2.2 SADP Activation

SADP software is used for detecting the online device, activating the device, and resetting its password.

Get the SADP software from the supplied disk or the official website, and install the SADP according to the prompts.

Steps

1. Connect your network keyboard power supply to an electrical outlet, and turn on the network keyboard.
2. Run the SADP software downloaded from our website to search the online devices.
3. Check the keyboard status from the device list, and select the inactive keyboard.
4. Enter the new password in the password field, and confirm it.

⚠️**Caution**

● Passwords are divided into 4 types: digits, lowercase letters, uppercase letters, and special symbols. Passwords are classified into 4 levels:

● Level 0 (risky password): password length < 8 or only one type of character.

● Level 1 (weak password): password length ≥ 8 and two types of characters. The character combination includes digits + lowercase letters and digits+ upper case letters.

● Level 2 (medium password): password length ≥ 8 and two types of characters. The character combination cannot be digits + lowercase letters or digits+ upper case letters.

● Level 3 (strong password): password length ≥ 8 and three types of characters.

● Do not use the risky passwords. To better protect your product, reset your password regularly.

● The password cannot contain the user name in the forward order and backward order (when the user name length is more than 3), 123, admin (case insensitive), a string of at least four consecutive digits (such as 1234, 12345, 4321, etc.), a string of at least four repeating characters (such as 1111, 8888, aaaa, etc.).

● The password cannot be 1qaz2wsx, 1qaz@WSX, !@#$QWER, p@ssword, passw0rd, or p@ssw0rd.

5. Click **Activate**.

2.3 Web Activation

After editing the PC and the network keyboard to the same network segment, you can directly log in to the web interface of the network keyboard to activate.

Chapter 3 Network

Network parameters must be properly configured before you can add network devices and operate the network keyboard over network.

Steps

1. Go to **System → Network**.
2. Configure network parameters.
   - Enable **DHCP** to obtain IP settings automatically.
   - Manually enter IP address, subnet mask, and gateway.
   - Enable **SADP** to search devices, change IP addresses through SADP software.
3. Tap **Save**.
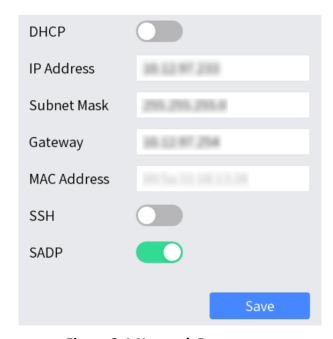
Figure 3-1 Network Parameters

Chapter 4 Keyboard

Keyboard mode is mainly applied to small-sized projects. Network keyboard works as a control center and manages security devices in it.

4.1 Login

Steps

1. Tap **Keyboard** at home page.
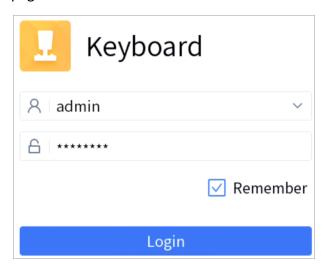
Figure 4-1 Login

2. Enter user name and password.
3. Optional: Check **Remember**.
4. Tap **Login**.

Note

If you enter the wrong password 7 times for administrator or 5 times for operator, the current user account will be locked for 30 minutes.

4.2 Add Devices

Up to 4000 devices can be added.

4.2.1 Manually Add

Steps

1. Go to **Keyboard → Device**.
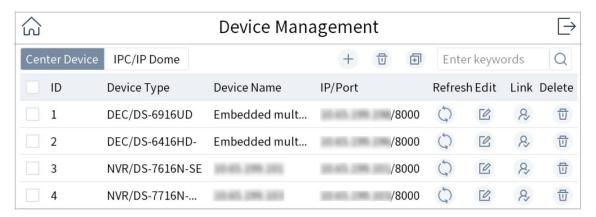
Figure 4-2 Device Management

2. Tap **Center Device** or **IPC/IP Dome** as desired.
3. Tap ⊕.
4. Enter device IP address, port, user name, and password.

Note

- The device name is obtained automatically or can be configured as required.
- If you enable the stream encryption for the device, you need to enter the verification code when adding the device.

5. Check or uncheck **Add Video Recorder Output**.

Note

Check **Add Video Recorder Output**, and the output port type, channel number and other information will be listed in the output port list.

6. Tap **OK**.
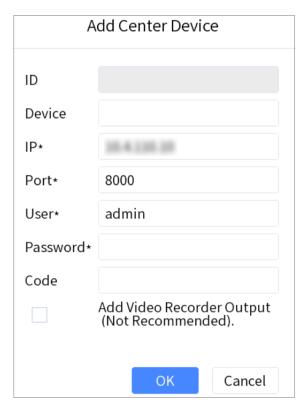
Figure 4-3 Add Center Device

Figure 4-4 Add Network Camera

4.2.2 Add in Batches

Add Online Devices in Batches

You can add the devices with the same user name and password in batches.

Steps

1. Go to **Keyboard → Device**.
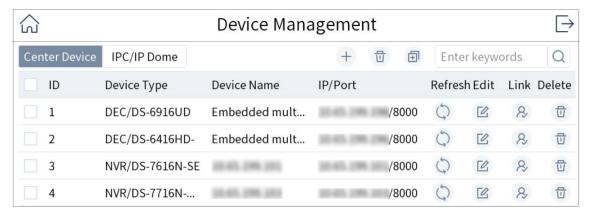
Figure 4-5 Device Management

2. Tap ⊡ to enter **Add by SADP** interface.
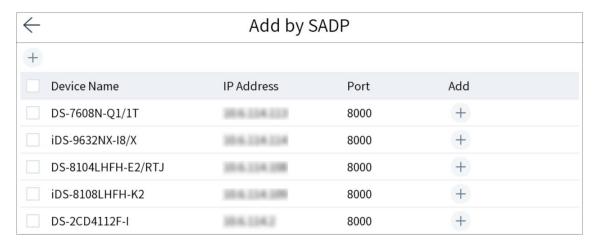
Figure 4-6 Online Devices

3. Check the devices to be added and tap +.
4. Enter user name and password.
5. Tap **Add**.

Import Input Channels in Batches

The information of added input channel can be generated into an excel file and exported to the

USB flash drive for backup.

Before You Start

Connect an USB flash drive to the network keyboard.

Steps

1. Go to **Keyboard → Channel**.
2. Export input channel template.
    1) Tap ⤴ to export an excel file.
    2) Edit the file on your computer, like adding or deleting input channels.
    3) Copy the file to an USB flash drive and connect it to your network keyboard.
3. Tap ⤵ to import input channels.

4.3 Local Live View

Preview an input channel in keyboard touchscreen.

4.3.1 Preview by Operating Touchscreen

Steps

1. Go to **Keyboard → Channel**.
2. Select the channel and tap ▷ to preview.

4.3.2 Preview by Operating Keyboard Shortcut

Press the keys of the keyboard to preview the input channel.

Steps

1. Press **0+MON**.
2. Preview the channel as desired.
   - Press **Num + CAM** to preview the signal of the corresponding channel.
   - Press **Num + CAM-G** to preview the camera group.
   - Tap ▱◁ in the touchscreen and select the channel or the camera group as desired to preview.

Figure 4-7 Local Live View

3. You can do the following operations.

4-Screen Preview	● Press **4 + MULT** to switch the current image into 4 screens, and tap any screen to preview the images of different cameras. ● Press **1 + MULIT** to return the previous image.
Switch Channels	Press **PREV/NEXT** to switch to the previous or next channel.
Full Screen	Press **ESC** to switch to the full screen.
Capture Images	Press the top of the rocker to capture a image.
Clip Videos	Press ⊙ to start clipping and press it again to stop clipping.

4. Press **0+CAM** to stop previewing.

ⓘNote

● You can preview the channel with up to 4K resolution.
● Press **Num + CAM** to control PTZ without previewing images from speed domes.
● The captured image and the recording can be saved in USB flash drive or uploaded to FTP server. For FTP configuration, see ***Storage***.
● After 5 seconds of inactivity, the screen will display only the video content, hiding all elements of the local live view interface. Tap the screen or press any key to restore the local live view.

4.3.3 PTZ Control

You can control the added speed dome. For example, you can control PTZ movement, turn on/off light, turn on/off wiper, zoom in/out, increase/decrease focus, increase/decrease iris, and set/call preset, patrol and pattern.

General Operation

Steps

1. Preview speed dome image.

Note

For detailed steps, see ***Preview by Operating Touchscreen*** and ***Preview by Operating Keyboard Shortcut***.

---

2. Move joystick and press buttons of keyboard to control PTZ.

Table 4-1 Buttons Description

Button	Description	Button	Description
LIGHT	Turn on/off light.	WIPER	Turn on/off wiper.
FOCUS+	Increase focus.	FOCUS-	Decrease focus.
IRIS+	Increase iris.	IRIS-	Decrease iris.
ZOOM+	Zoom in.	ZOOM-	Zoom out.
PRESET	Set/call preset.	PATROL	Set/call patrol.
PATTERN	Set/call pattern and start/stop auto-scan.	Joystick	Rotate PTZ.

Set and Call Preset

You can record the horizontal positions, vertical positions, and lens magnification of the preset point by setting a preset point. To quickly monitor a certain target, you can call out the preset position by operating the keyboard.

By Operating Touchscreen

1. Preview speed dome image. For detailed steps, see ***Preview by Operating Touchscreen*** and ***Preview by Operating Keyboard Shortcut***.
2. Set a preset.
   1) Tap ⚇.
   2) Tap **Preset**.

3) Rotate the joystick to move PTZ to a desired position.
4) Tap ⚲ to set a preset.
3. Tap ⊙ to call the preset.

By Operating Keyboard Shortcut

1. Preview speed dome image. For detailed steps, see **_Preview by Operating Touchscreen_** and **_Preview by Operating Keyboard Shortcut_**.
2. Rotate the joystick to move PTZ to a desired position.
3. Set a preset.
   1) Press **SET** to start setting. The SET button turns red.
   2) Press **Num + PRESET** to set the current position as corresponding preset.
   3) Press **SET** to finish setting.
4. Press **Num + PRESET** to call the preset.

Set and Call Patrol

Patrol means that PTZ moves among several presets. PTZ will stay in a preset for a duration before moving on to the next preset.

By Operating Touchscreen

1. Preview speed dome image. For detailed steps, see **_Preview by Operating Keyboard Shortcut_** and **_Preview by Operating Touchscreen_**.
2. Set a patrol.
   1) Tap ⚲.
   2) Tap **Patrol**.
   3) Tap ⚙ of a desired patrol.
   4) Tap **Add Preset** to add presets, including their speed and duration time, in the patrol.
   5) Tap **OK**.
3. Tap ⊙ to call the patrol.

By Operating Keyboard Shortcut

1. Preview speed dome image. For detailed steps, see **_Preview by Operating Keyboard Shortcut_** and **_Preview by Operating Touchscreen_**.
2. Press **SET** to start setting.
   The SET button turns red.
3. Press **Num + PATROL** to select which patrol to set.

   Preset

   It determines the order at which the PTZ will follow while moving through the patrol.

   Speed

   It defines the speed at which the PTZ will move from one preset to the next.

   Duration

   It refers to the time span to stay at the preset.
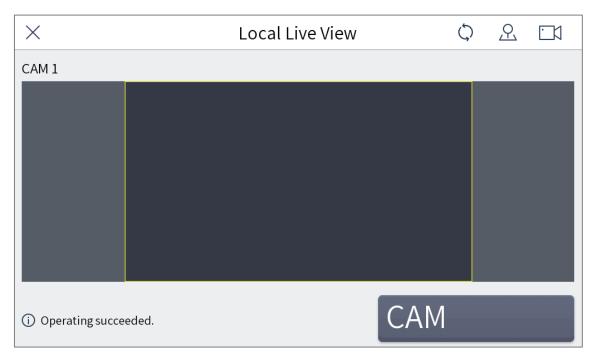
Figure 4-8 Edit Patrol

4. Press **Num + ENTER** to select preset.
5. Press **Num + ENTER** to set duration.
6. Press **Num + ENTER** to set speed.

ⓘ**Note**

If you press **Num + PATROL** during steps 4 to 6, the settings will be cleared.

7. Repeat steps 4 to 6 to set more points of the patrol.
8. Press **SET** to finish setting.

ⓘ**Note**

Press **Num + PATROL** again to clear all parameters set. Press **SET** to reset.

9. Press **Num + PATROL** to call the patrol.

ⓘ**Note**

You can also tap 🙎 in **Local Live View** interface to select **Patrol**, set and call patrol.

Set and Call Pattern

Pattern records the movement of the PTZ. You can call the pattern to automatically move the PTZ according to the predefined path.

By Operating Touchscreen

1. Preview speed dome image. For detailed steps, see **_Preview by Operating Touchscreen_** and **_Preview by Operating Keyboard Shortcut_**.

2. Set a pattern.
    1) Tap 🧍.
    2) Tap **Pattern**.
    3) Tap ◉ of a desired pattern.
    4) Tap **OK**.
    5) Rotate the joystick to control PTZ. The movement will be recorded.
    6) Tap ◉ to save the pattern.
3. Tap ▷ to call the pattern.

By Operating Keyboard Shortcut

1. Preview speed dome image. For detailed steps, see **_Preview by Operating Touchscreen_** and **_Preview by Operating Keyboard Shortcut_**.
2. Press **SET** to start setting.
    The SET button turns red.
3. Press **Num + PATTERN** to select a pattern to set.
4. Rotate the joystick to control PTZ. The movement will be recorded.
5. Press **SET** to stop setting.
6. Press **Num + PATTERN** to call the pattern.

📖**Note**

You can also tap 🧍 in **Local Live View** interface to select **Pattern**, set and call pattern.

4.4 Video Wall

4.4.1 Video Wall Configuration

Configure Region

Divide a video wall into several regions to manage video wall by region.

Steps

1. Go to **Keyboard → Region**.

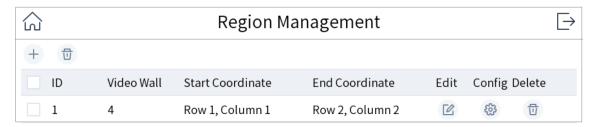|	ID	Video Wall	Start Coordinate	End Coordinate	Edit	Config	Delete
☐	1	4	Row 1, Column 1	Row 2, Column 2	✎	⚙	🗑

Figure 4-9 Region Management

2. Tap +.

Figure 4-10 Add Region

3. Enter video wall ID, start coordinate, and end coordinate.
4. Tap **OK**.

Note

- Up to 16 regions can be added.
- Region size cannot be larger than 6 × 8 (row × column).

Link Output Channel to Video Wall
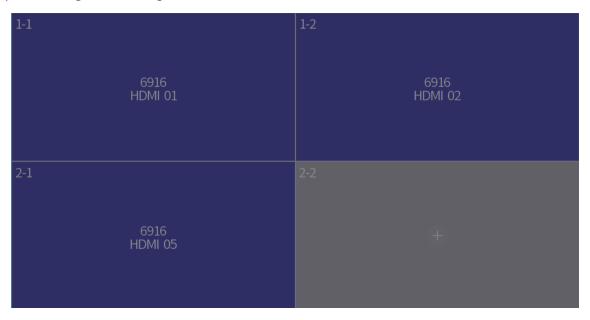
Steps

1. Tap ⚙ of region to configure.

Figure 4-11 Region Configuration

2. Tap ⊞ of a grid.
3. Select a decoding device and select its output channel.

4. Tap **OK** to finish setting.

📖ℹ️**Note**

Region output channel layout should be the same with the actual video wall.
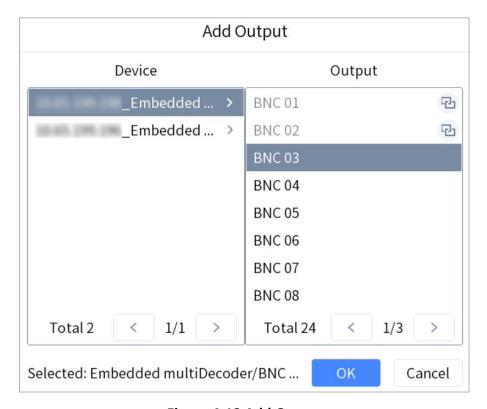
Figure 4-12 Add Output

4.4.2 Video Wall Control

Layout Operation

Select a monitor to open, close, resize, and divide windows.

Steps

1. Press **Num + REGION**, or press **Num + WALL**.
2. Tap to select a monitor.
3. Operate the window as desired.

Open window	Press **Num + CAM** or **Num + CAM-G** to display an input channel or camera group on the monitor.
Window roaming	Long press a window, and you can move it.

Close window	Long press a window, and tap ⊗ to close the window.
Resize window	● Double tap a window to expand it to cover all the grids it overlays. Double tap the window again to restore it to the previous size. ● Drag the four corners of the window to resize the window.
Divide window	Press **Num + MON** and press **Num + MULT** to divide the window.
Expand/restore sub-window	Press **Num + MON**, press **Num + WIN** to select a sub-window, and press **F2** to expand the sub-window to cover the whole monitor. Press **F2** again to restore the sub-window.

Window Operation

Display an input channel or camera group on a monitor.

Steps

1. Select a monitor to display. Three methods are provided. You are recommended to use the first one.
   - Press **Num + REGION** to show monitors on the region and video wall layout.
   - Press **Num + MON**. Or tap to select a monitor.
   - Press **Num + DEVICE**.

   ⓘ**Note**

   You can check the device number in **Device Management** interface.

   - Press **Num + WALL**. For roaming devices, WALL refers to video wall. For decoder, WALL refers to spliced screen.

   ⓘ**Note**

   ○ For the roaming device supporting one video wall, always keyboard selects the number 1 video wall, whatever the Num is.
   ○ For the roaming device supporting multiple video walls, select the corresponding video wall.
   ○ For the device supporting spliced screen, select the corresponding joined screen.

   - Press **Num + MON**. Or tap to select a monitor. Press **Num + MON**: Select a monitor directly.
2. Select an input channel or camera group to preview.
   - Press **Num + CAM** to preview the input channel.
   - Press **Num + CAM-G** to preview the camera group.
   - Tap 📹 on the upper right corner of the touchscreen and select an input channel to preview.
3. During live view, you can switch live view input channel, capture images, and clip videos.

Switch Channels	Press **PREV/NEXT** to switch to previous/next online input channel.

Capture Images   Press the button on the top of joystick to capture images.

Clip Videos   Press ⬤ to start clipping and press it again to stop clipping.

Scene Operation

You can switch the scene for a region or video wall.

Steps

1. Press **Num + REGION**, or press **Num + WALL**.
2. Select a monitor or window on touchscreen.
3. Select a scene as desired.
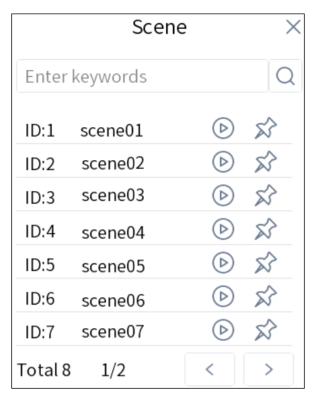   - Tap ⊞ on the upper right corner and select a desired scene.

Figure 4-13 Scene

Table 4-2 Icon Description

Icon	Description
▷	Switch scene.
✗	Save scene.

Icon	Description
	Note You can also press **SET + Num + SCENE + SET** to save scene.

● Press **Num + SCENE** to switch scenes.

4.4.3 PTZ Control

You can control the added speed dome, like control PTZ movement, turn on/off light, turn on/off wiper, zoom in/out, increase/decrease focus, increase/decrease iris, set/call preset, patrol and pattern.

Steps

1. Display speed dome image on video wall. For detailed steps, see ***Window Operation***.
2. Control PTZ. For detailed steps, see ***PTZ Control***.

4.4.4 Group and Macro

You can execute a series of continuous actions in sequence by calling a macro or group. Steps of setting group and macro are the same, we take setting and calling macro as the example to describe the steps.

Steps

1. Go to **Keyboard → Macro**.
2. Tap ⊕.
3. Enter macro name.
4. Press keyboard buttons to enter commands.

Note

You can add up to 256 keys in one macro. A number may contain several keys, e.g., 369 contains 3 keys. A functional button is one key.

5. Tap **Save**.
6. Press **Num + MACRO** to call the macro.

4.5 Playback

4.5.1 Local Playback

Play videos on the touchscreen.

Instant Playback

Play videos in 3/5/10/15 minutes.

Steps

1. Start local live view. For detailed steps, see ***Preview by Operating Touchscreen*** and ***Preview by Operating Keyboard Shortcut***.
2. Use either of the following methods for instant playback:

   - Keyboard operation: Press ⬛. The system will replay recordings from a fixed duration prior to the current time. If no duration is set on the touchscreen, the default playback duration is 5 minutes. If a custom duration has been configured, playback will follow the configured duration.

   - Touchscreen operation: Tap ⟳, tap **Instant**, and choose the desired playback duration.

Playback by Time

Steps

1. Start local live view. For detailed steps, see ***Preview by Operating Touchscreen*** and ***Preview by Operating Keyboard Shortcut***.
2. Tap ⟳.
3. Tap **By Time**.
4. Select a day in calendar.

Playback Control

During playback, you can clip videos, capture images, control playback speed, etc.

Before You Start

You need to connect a USB flash drive or configure keyboard FTP settings. Clipped videos and captured pictures will be saved to USB flash drive or FTP server. For steps of storage configuration, see ***Storage***.

⊡**Note**

DS-1100KI supports speed control via both outer shuttle and the joystick. DS-1105KI supports speed control via the joystick only.

Table 4-3 Button Description

Button	Description	Button	Description
Time bar	Drag time bar to quickly locate on a certain time to play.	⏸	Pause/resume playback.
⏹	Stop playback.	⏮	Jump backward for 30 seconds.
⏺	During playback, press it to start clipping. Press it again to stop clipping.	⏭	Jump forward for 30 seconds.
Outer shuttle	• Rotate it clockwise for 2/4/8 times faster. • Rotate it anticlockwise for 1/2, 1/4, or 1/8 times slower.	Inner shuttle	Reserved
Capture	Press the button on the top of joystick to capture the images.	Joystick	• Left: 1/2, 1/4, or 1/8 times slower. • Right: 2/4/8 times faster. • Clockwise: Jump forward for 30 seconds. • Anticlockwise: Jump backward for 30 seconds.

4.5.2 Video Wall Playback

Play videos on video wall.

Instant Playback

Play videos in 3/5/10/15 minutes.

Steps

1. Start video wall live view. For detailed steps, see ***Window Operation***.
2. Use either of the following methods for instant playback:
   - Keyboard operation: Press ▶. The system will replay recordings from a fixed duration prior to the current time. If no duration is set on the touchscreen, the default playback duration is 5 minutes. If a custom duration has been configured, playback will follow the configured duration.

   - Touchscreen operation: Tap ⏲, tap **Instant**, and choose the desired playback duration.

Playback by Time

Steps

1. Start video wall live view. For detailed steps, see **_Window Operation_**.
2. Tap ⏯, tap **By Time**, and select a day in calendar.

Playback Control

For detailed steps, see **_Playback Control_**.

ℹ**Note**

Capturing, clipping, recording, jumping forward or backward for 30 seconds are not supported in **Video Wall Playback**.

4.6 Channel Management

4.6.1 Edit Channel

We take editing input channel as the example to describe the steps.

Steps

1. Go to **Keyboard → Channel**.
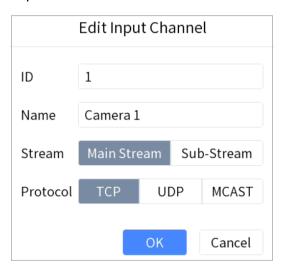2. Tap ✎ of input channel/output channel to edit.

Figure 4-14 Edit Input Channel

3. Edit parameters.

   ID

   The unique identification for input channel. It is valid in local and video wall live view mode.

Stream

The stream to preview in local and video wall live view mode.

Protocol

It is valid for video wall preview.

4. Tap **OK**.

4.6.2 Output Channel

When adding decoders or video recorders, their output channels will be added and displayed in output channel list. You can press **Num + MON** to operate an output channel, and the number refers to output channel ID. Video wall also need to link to these output channels.
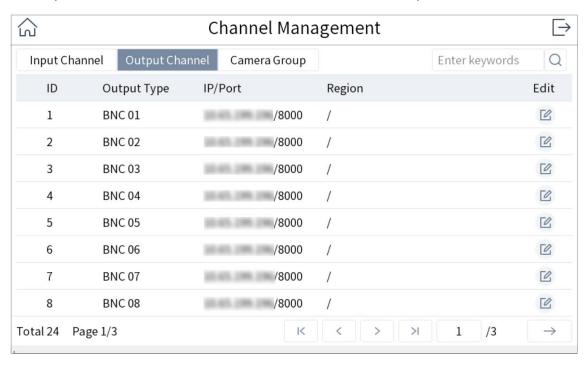

	Channel Management				
Input Channel	Output Channel	Camera Group		Enter keywords	
ID	Output Type	IP/Port	Region		Edit
1	BNC 01	/8000	/		☑
2	BNC 02	/8000	/		☑
3	BNC 03	/8000	/		☑
4	BNC 04	/8000	/		☑
5	BNC 05	/8000	/		☑
6	BNC 06	/8000	/		☑
7	BNC 07	/8000	/		☑
8	BNC 08	/8000	/		☑
Total 24 Page 1/3		|< < > >|	1 /3	→

Figure 4-15 Output Channel

4.6.3 Camera Group

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

Steps

1. Go to **Keyboard → Channel → Camera Group**.

Figure 4-16 Camera Group

2. Tap ⊕ .

Figure 4-17 Add Camera Group

3. Enter group name and interval.

   Interval: The time to dwell in each input channel before switching to next channel.

4. Tap **OK**.

5. Add input channel to camera group.
   - Select a channel and tap ⧉ on the right.
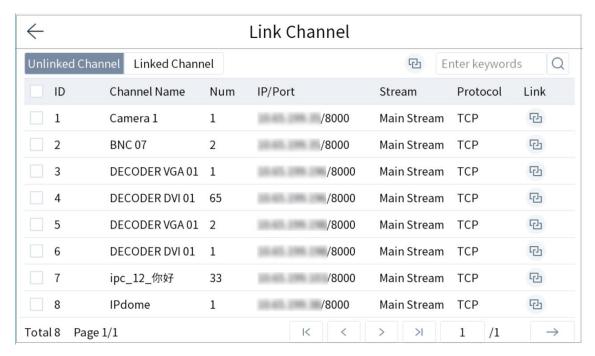   - Check input channels and tap ⧉ on the upper-right corner.

Figure 4-18 Link Channel

i Note

- Up to 16 camera groups can be added.
- Each camera group can link up to 64 input channels.
- Interval range: 10 to 65535 seconds.
- The camera groups set by different users are independent. Namely, users can only view and edit their own camera groups.

6. Optional: Tap **Linked Channel**, check input channels to be unlinked and tap   to unlink the input channel.

4.7 User Management

Administrator can add operator and allocate devices to operator. Operator permissions are as follows:

- Add, edit, and delete macro and group.
- Add, edit, and delete region.
- Deleting, editing, and adding devices are not allowed.

Steps

1. Go to **Keyboard → System → User**.
2. Tap + .
3. Enter user name and password for an operator, and tap **OK**.

Figure 4-19 Add User

⚠️**Caution**

● Passwords are divided into 4 types: digits, lowercase letters, uppercase letters, and special symbols. Passwords are classified into 4 levels:

● Level 0 (risky password): password length < 8 or only one type of character.

● Level 1 (weak password): password length ≥ 8 and two types of characters. The character combination includes digits + lowercase letters and digits+ upper case letters.

● Level 2 (medium password): password length ≥ 8 and two types of characters. The character combination cannot be digits + lowercase letters or digits+ upper case letters.

● Level 3 (strong password): password length ≥ 8 and three types of characters.

● Do not use the risky passwords. To better protect your product, reset your password regularly.

● The password cannot contain the user name in the forward order and backward order (when the user name length is more than 3), 123, admin (case insensitive), a string of at least four consecutive digits (such as 1234, 12345, 4321, etc.), a string of at least four repeating characters (such as 1111, 8888, aaaa, etc.).

● The password cannot be 1qaz2wsx, 1qaz@WSX, !@#$QWER, p@ssword, passw0rd, or p@ssw0rd.

4. Allocate devices to operator.
   ● Tap 🔁 of device to be linked.
   ● Check devices as desired and tap 🔁 on the upper-right corner.

ℹ️**Note**

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

5. Optional: Tap **Linked Device**, check the devices to be unlinked and tap 🔁 to unlink the devices.

4.8 Video Recorder

Control video recorder by operating video record remote panel.

4.8.1 Remote Panel

Press **Num + DEVICE** to show video recorder remote panel. Num refers to video recorder ID. Go to **Device** for video recorder ID.
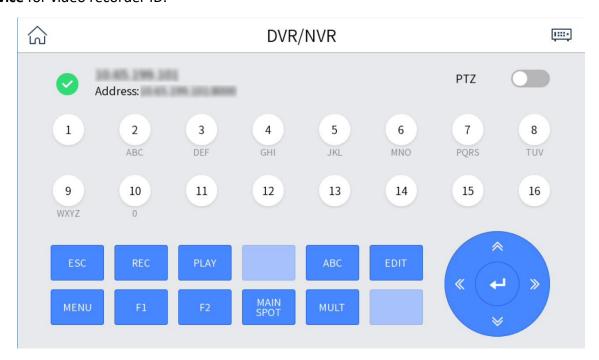

Figure 4-20 Remote Panel (Disable PTZ)

Table 4-4 Button Description

Button	Description
Disable PTZ	Exit PTZ control mode.
Numeric Key	In editing mode, tap it to enter number 1 to 16. (When the number of channels to be controlled is a multiple of 10, e.g. 20, press 2 and then press 10.) ● In live view or PTZ mode, tap it to switch channel. ● During playback, tap it to switch channel.
ESC	Exit the current menu.
REC	Start/stop manual recording.
PLAY	● In live view mode, tap it to enter **Instant Playback** interface. ● During playback, tap it to select a day in the calendar.
ABC	In editing mode, tap it to switch input method among digits, letters, and

| Button	Description
	characters.
EDIT	● In editing mode, tap it to delete the content before the cursor. ● Check/uncheck a checkbox. ● In setting menu, tap it to enter editing mode.
MENU	● Enter main menu interface. ● In second-level menu, tap it to go back to **Live View** interface. ● During playback, tap it to hide the control bar.
F1	● During playback, tap it to switch between play and reverse play. ● In live view mode, tap it to start instant playback.
F2	● Tap it to switch tab page. ● During playback, tap it to switch playback mode between playback by channel and playback by file. ● During simultaneous playback, tap it to switch channel.
MAIN/SPOT	Tap it to switch the output between main port and auxiliary port.
MULT	In live view mode, tap it to switch image division.
Directional Button	● Move the active selection in a menu. Tap it to move the selection up and down. ● In live view mode, tap it to switch different channels. ● In playback mode: ○ Up (corresponds to ▶▶ in playback menu): Tap it to speed up. ○ Down (corresponds to ◀◀ in playback menu): Tap it to slow down. ○ Left (corresponds to ◀ in playback menu): Tap it to switch to previous file/event/tag/day. ○ Right (corresponds to ▶ in playback menu): Tap it to switch to next file/event/tag/day.
Enter	● Confirm an operation. ● Check a checkbox and switch **ON/OFF**. ● During playback, tap it to stop/resume playback. ● In single frame playback mode, tap it to play next frame.
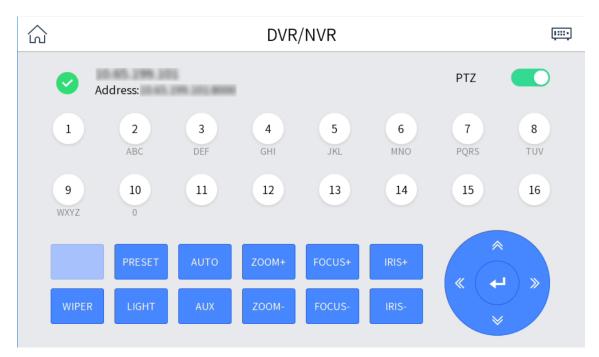
Figure 4-21 Remote Panel (Enable PTZ)

Table 4-5 Button Description

Button	Description
Enable PTZ	In PTZ live view mode, enable PTZ to enter PTZ control mode.
Numeric Button	Switch to the corresponding channel. (When the number of channels to be controlled is a multiple of 10, e.g. 20, press 2 and then press 10.)
PRESET	Tap **PRESET + Num** to call the preset.
AUTO	Enter auto-scan mode.
ZOOM+	Zoom in.
FOCUS+	Increase focus.
IRIS+	Increase iris.
WIPER	Turn on/off PTZ wiper.
LIGHT	Turn on/off PTZ light.
AUX	Reserved.
ZOOM-	Zoom out.
FOCUS-	Decrease focus.
IRIS-	Decrease iris.
Directional Button	Control PTZ movement.

Button	Description
Enter	In auto-scan mode, tap it to stop/resume auto-scan.

4.8.2 Live View

Video Recorder (Version before 4.0)

Whatever interface the video recorder is in, tap **ESC** till you enter the live view mode.

Video Recorder (Version: 4.0 and above)

Whatever interface the video recorder is in, tap **directional button** to enter the live view mode.

4.8.3 PTZ Control

You can control the added speed dome, like control PTZ movement, turn on/off light, turn on/off wiper, increase/decrease iris, increase/decrease focus, zoom in/out, call preset. But setting preset, setting and calling pattern, and setting and calling patrol are not supported.

General Operation

Operate the joystick and buttons to control PTZ.

Call a Preset

Tap **PRESET + Num** to call the preset.

4.8.4 Playback

Video Recorder (Version before 4.0)

In live view mode, tap **PLAY**.

Video Recorder (Version 4.0 and above)

- In live view mode, tap **PLAY**.
- In other menu, tap directional button to navigate to playback menu.

4.9 Connect the Device Through Serial Ports
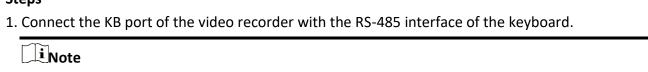
The network keyboard can be connected to the device through RS-232 and RS-485 serial port. After the connection, the keyboard can be used to control the video recorder, analog dome and

analog matrix.

4.9.1 Connect Video Recorders

The keyboard can be connected to the video recorder through RS-485 serial port to realize preview, playback, PTZ control and other functions.

Steps

1. Connect the KB port of the video recorder with the RS-485 interface of the keyboard.

> **ⅰNote**
>
> T+ and T- of RS-485 interface correspond to D+ and D- of KB port respectively.

2. Enter **Serial Port Control**, and select **DVR/NVR**.
3. Select **Device Address**.
4. Select **Device Version**.

> **ⅰNote**
>
> ● The device version is the firmware version of the corresponding device.
> ● Please select according to the actual device version. Wrong version selection will cause some function exceptions.

5. Control video recorder through remote panel of video recorder. For details, see ***Remote Panel***.

> **ⅰNote**
>
> You can only control the video recorder through the joystick and touchscreen, and the shortcut of network keyboard cannot be used to control the video recorder.
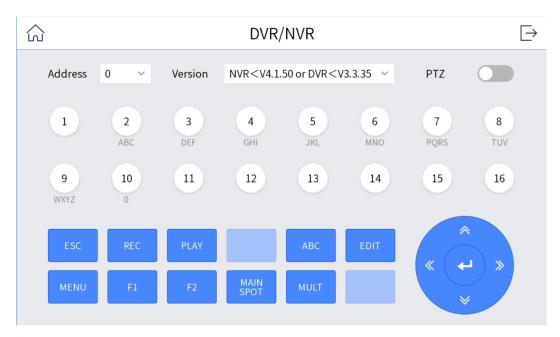
Figure 4-22 Connect Video Recorder (PTZ Disabled)
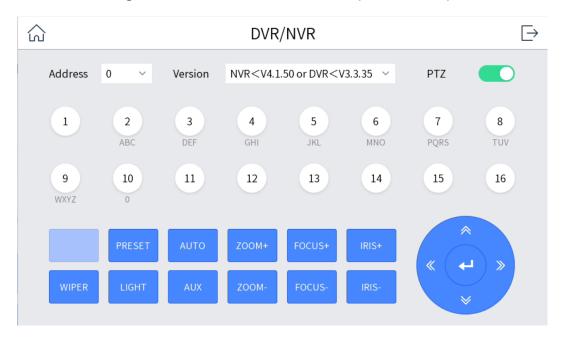
Figure 4-23 Connect Video Recorder (PTZ Enabled)

4.9.2 Connect Analog Matrix

The keyboard can be connected to the analog matrix through RS-232 serial port.

Steps

1. Connect the analog matrix to the RS-232 interface on the keyboard.

⬚ⓘNote

RS-232 interface uses the RJ-45 jack, whose pins 2, 3, and 7 represent RX, TX, and GND. When inserting an RJ-45 connector into the RS-232 interface, make sure RX, TX, and GND lines of the RS-232 interface are connected to TX, RX, and GND lines of the RJ-45 connector.

---

2. Enter **Serial Port Control**, select **Analog Dome/Analog Matrix**, and tap **OK**.
3. Tap ⚙ on the upper-right corner and select **RS232**.
4. Set the parameters of RS232 serial port.
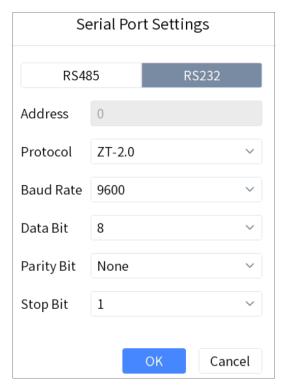
Figure 4-24 Setting Parameters of RS232 Serial Port

5. Optional: Switch one input port of the analog matrix to the output port.
   1) Part of the analog matrix needs to enter the device number in the keyboard.
   2) Press **1+MON**.
   3) Press **2+CAM** to switch the input port 2 to the output port 1.

4.9.3 Connect Analog Dome

The keyboard can be connected to the analog dome through RS-485 serial port to control PTZ

control, set and call preset, call patrol and pattern, etc.

Before You Start

Connect the analog dome to RS-485/RS-232 interface on the keyboard.

Steps

1. Tap **Serial Port Control**, select **Analog Dome/Analog Matrix** and tap **OK**.
2. Select a serial port.
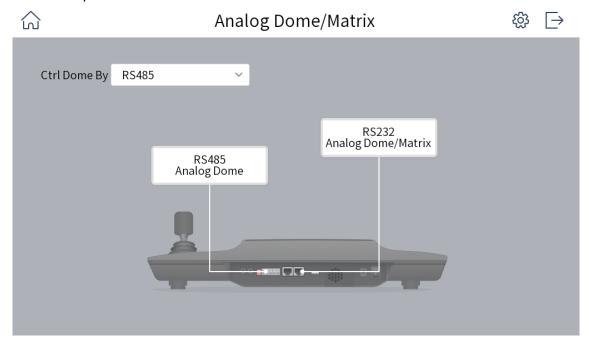
Figure 4-25 Select Serial Port

3. Tap ⚙ on the upper-right corner.
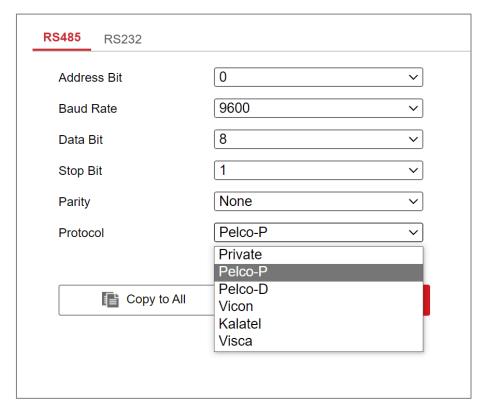   ● Set the parameters of RS-485 serial port.

Figure 4-26 Setting Parameters of RS-485 Serial Port
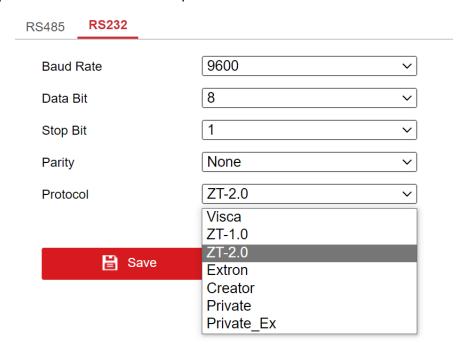
● Set the parameters of RS-232 serial port.

Figure 4-27 Setting Parameters of RS-232 Serial Port

Note

Among all RS-232 protocols, only Visca supports the control of analog domes.

4. Press **NUM+CAM** and select analog dome.

Note

One RS-485 serial port can be connected to multiple analog domes. The longer the serial port cable is, the fewer analog domes can be connected at the same time.

5. Control PTZ through the joystick.

Note

- Setting and calling preset, and calling patrol and pattern are supported. For details, see ***PTZ Control***.
- Calling and setting patrol are supported, and the specific number of analog domes supported varies with the protocols of the analog domes.

Chapter 5 iSecure Mode

5.1 Login

Steps

1. Tap **iSecure** at home page.
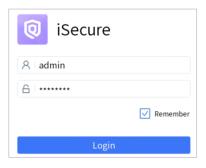
Figure 5-1 Log in to iSecure

2. Tap **Server IP** on the upper right corner.
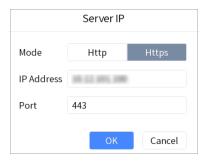
Figure 5-2 Server IP Configuration

3. Select **Http** or **Https** as the login mode.
4. Enter the IP address and port No. of the server, and tap **OK**.
5. Enter the user name and password of the server.
6. Optional: Check **Remember**.
7. Tap **Login**.

Note

- After several failed login attempts, you need to enter verification code. The details are subject to the actual interface.
- When you attempt to log into the platform for the first time, you will be prompted to log into the client first.
- If a platform is cascaded with other platforms, you can view all cameras and video walls of the platform and its cascading platforms when you log in to the platform through the

keyboard.
- Different users have different kinds of permissions. Please refer to the messages on the interface.

5.2 Resource List

Resource list interface appears after you log in to iSecure. Resource list contains control center, region, video wall, and camera. Tap a control center or region, you can view its subordinate control center, region, and camera.
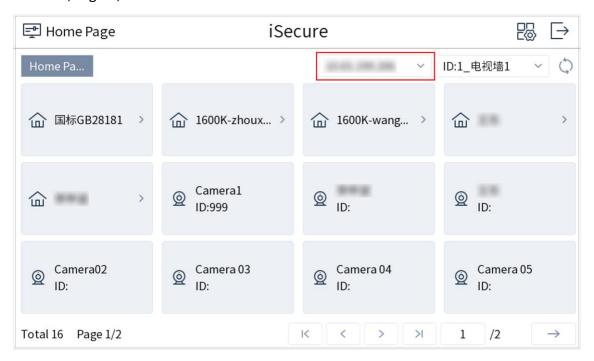

Figure 5-3 Resource List (iSecure)

- Tap the drop-down list on the upper right corner to view video wall ID and select a video wall. Tap the drop-down list in the red box to select TVMS server.
- Tap to select a control center or region to view its subordinate camera ID.
- The camera ID can be only edited in the platform client. For details, please refer to the user manual of the platform.

5.3 Local Live View

You can preview the cameras on iSecure platform on the touchscreen.

5.3.1 Enable Local Live View

Preview the images of cameras by operating keyboard shortcut.

Steps

1. Press **0 + MON** to enter local live view.
2. Preview operations.
   - Press **Num + CAM** to perform the preview operation.
   - Select on the upper-right corner on the touchscreen, and select a channel under the node to display.
3. During preview, switch channels, capture images, or clip videos.

4-Window Preview	• Press **4 + MULT** to switch the current image into 4 windows, and tap any window to preview more cameras. • Press **1 + MULIT** to return to the previous image.
Switch Channels	Press **PREV/NEXT** to switch to the previous or next channel.
Capture Images	Press the top of the joystick to capture an image.
Clip Videos	Press to start clipping and press it again to stop clipping.

5.3.2 PTZ Operation

You can control the added speed dome, like control PTZ movement, turn on/off light, turn on/off wiper, zoom in/out, increase/decrease iris, increase/decrease focus, set and call preset, and call patrol/pattern.
For detailed steps, see _**PTZ Control**_.

5.4 Video Wall Operation

5.4.1 Region Configuration

The whole video wall can be divided into different regions.

Steps
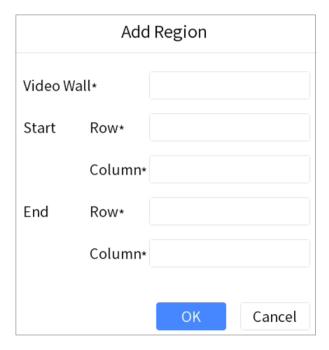
1. Tap on the upper-right corner.
2. Tap .

Figure 5-4 Add Region

3. Enter video wall ID, start and end coordinates.
4. Tap **OK**.

☐**i Note**

- Up to 16 regions are supported.
- The maximum region specification is 6 × 8.
- If you do not configure the region, region 1 will be set correspond to video wall 1, region 2 to video wall 2, and region 16 to video wall 16 by default.

5.4.2 Video Wall Control

- Select a coordinate grid that has been linked with an output interface, and perform operations such as opening a window, closing a window, resizing a window, and dividing a window.
- Select a video wall to switch scenes and display the current layout.
- Switch the designated camera to the designated monitor or sub-window of the video wall.
- Do not support camera group.

For detailed steps, see ***Video Wall Control***.

5.4.3 PTZ Operation

You can control the added speed dome, like control PTZ movement, turn on/off light, turn on/off wiper, zoom in/out, increase/decrease iris, increase/decrease focus, set and call preset, call patrol/pattern.

For detailed steps, see ***PTZ Control***.

5.5 Video Wall Playback

On the keyboard video wall, you can play back video files from cameras on iSecure platform.

⌐ⁱNote
- You can play back video files from the central or local cameras by choosing **Central Storage** or **Local Storage** after tapping ⟳▷. Some operations in the process of playback are not supported. Please follow the interface prompt messages.
- Only playback from VNSC components of the platform through standard RTSP is supported.
- The progress bar will be displayed during playback. You can drag the progress bar back and forth to view the playback image.

Method 1

1. Press **Num + REGION** to select a region, or press **Num + WALL** to select a wall.
2. Tap to select a window to start playback. For detailed steps, see ***Video Wall Playback***.

Method 2

1. Select a wall in the wall list.
2. Press **Num + MON**.
3. Select a channel with records to start playback.

Chapter 6 HikCentral Mode

The keyboard is accessible to HikCentral platform, and the images of the cameras accessible to HikCentral platform can be displayed on the video wall and previewed locally.

6.1 Login

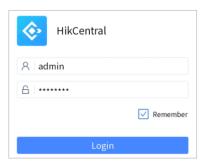**Steps**

1. Tap **HikCentral** at home page.

Figure 6-1 HikCentral Login

2. Tap **Server IP** on the upper right corner.

Figure 6-2 Configure Server IP (HikCentral)

3. Select **Http** or **Https** as the login mode.
4. Enter server IP address and port, and tap **OK**.
5. Enter server user name and password.
6. Optional: check **Remember**.
7. Tap **Login**.

⊡**Note**

After several failed login attempts, you need to enter verification code. The login attempt times are decided by platform.

6.2 Resource List

Resource list interface appears after you log into HikCentral platform. Resource list contains control center, region, video wall, and camera. Tap a control center or region, and you can view its subordinate control center, region, and camera.
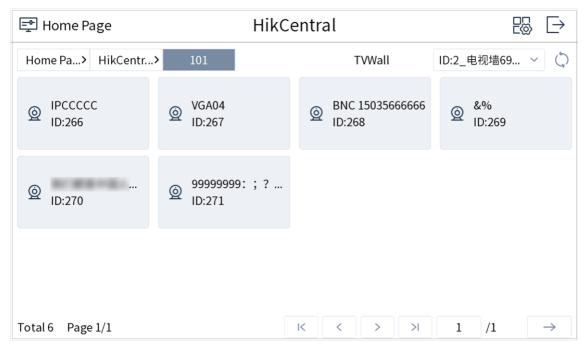

Figure 6-3 Resource List (HikCentral)

- Tap the dropdown list on the upper right corner to view video wall ID and select a video wall.
- Tap ▦ on the upper right corner to divide the whole video wall into regions.
- Select a site, and tap to select a control center or region to view its subordinate camera ID.
- The camera ID can be only edited in the platform client.

6.3 Local Live View

You can preview the cameras on HikCentral platform on the touchscreen.

6.3.1 Enable Local Live View

Preview the images of cameras by operating keyboard shortcut.

Steps

1. Press **0 + MON** to enter local live view.
2. Preview operations.
   - Press **NUM + CAM** to perform the preview operation.
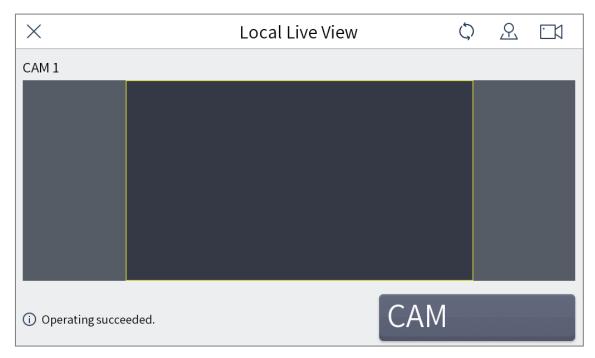   - Select ▭ on the upper-right corner on the touchscreen, and select a channel under the node to preview.

Figure 6-4 Local Live View

3. During preview, use the joystick to control the pattern of PTZ.
4. During preview, switch channels, capture images, or clip videos.

4-Window Preview	● Press **4 + MULT** to switch the current image into 4 windows, and tap any window to preview more cameras. ● Press **1 + MULIT** to return to the previous image.
Switch Channels	Press **PREV/NEXT** to switch to the previous or next channel.
Capture Images	Press the top of the joystick to capture an image.
Clip Videos	Press ⬤ to start clipping and press it again to stop clipping.

Note

In HikCentral interface, press **Num + CAM** to control PTZ without previewing the images from speed domes.

6.3.2 PTZ Operation

You can control the added speed dome, like control PTZ movement, turn on/off light, turn on/off wiper, zoom in/out, increase/decrease iris, increase/decrease focus, set and call preset, and call patrol/pattern.
For detailed steps, see _**PTZ Control**_.

6.4 Video Wall Operation

6.4.1 Region Configuration

The whole video wall can be divided into different regions for management.
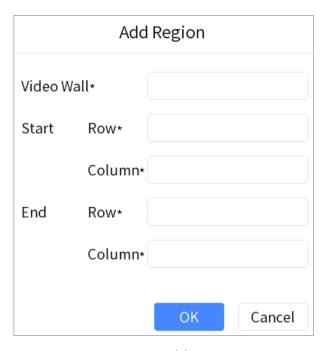
Steps

1. Tap 🔲 on the upper-right corner.
2. Tap ＋ .

Add Region

Video Wall*	
Start	Row*
	Column*
End	Row*
	Column*

OK   Cancel

Figure 6-5 Add Region

3. Enter video wall ID, start and end coordinates.
4. Tap **OK**.

ℹNote

- Up to 16 regions are supported.
- The maximum region specification is 6 × 8.
- If you do not configure the region, region 1 will be set correspond to video wall 1, region 2 to video wall 2, and region 16 to video wall 16 by default

---

6.4.2 Video Wall Control

- When you press **Num + CAM** to preview, the stream type adapts to the platform by default. But you can switch the stream type.
- Select a coordinate grid that has been linked with an output interface, and perform operations

such as opening a window, closing a window, resizing a window, and dividing a window.
- For LED video walls, you can open a window or batch open windows by tapping icons on the upper right corner.
- Select a video wall to switch scenes and display the current layout.
- Switch the specified camera to the specified monitor or sub-window of the video wall.
- Do not support camera group.

For detailed steps, see ***Video Wall Control***.

> ⓘ**Note**
>
> In HikCentral mode, the top joystick button is used for tagging instead of taking screenshots.

6.4.3 PTZ Operation

You can control the added speed dome, like control PTZ movement, turn on/off light, turn on/off wiper, zoom in/out, increase/decrease iris, increase/decrease focus, set and call preset, call patrol/pattern.
For detailed steps, see ***PTZ Control***.

6.5 Video Wall Playback

On the keyboard video wall, you can play back video files from cameras on HikCentral platform.

> ⓘ**Note**
>
> - Local storage and device storage are supported.
> - Fast playback, slow playback, and pause/resume playback are supported. The progress bar will be displayed during playback. You can drag the progress bar back and forth to view the playback screen.

Method 1

1. Press **Num + REGION** to select a region, or press **Num + WALL** to select a wall.
2. Tap to select a window to start playback. For detailed steps, see ***Video Wall Playback***.

Method 2

1. Select a wall in the wall list.
2. Press **Num + MON**.
3. Select a channel with records to start playback.

Chapter 7 System

Tap **System** at home page to enter system interface. You can configure keyboard network, hardware, time, etc.

Note

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

7.1 Language

Select **System** → **Maintenance** → **Language** to view the language.

7.2 Hardware

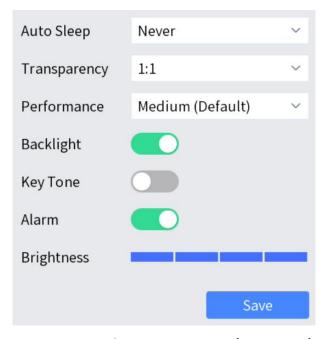Go to **System** → **Hardware**, and set the following parameters.

Auto Sleep	Never
Transparency	1:1
Performance	Medium (Default)
Backlight	(on)
Key Tone	(off)
Alarm	(on)
Brightness	

Save

Figure 7-1 Hardware Parameters (DS-1100KI)
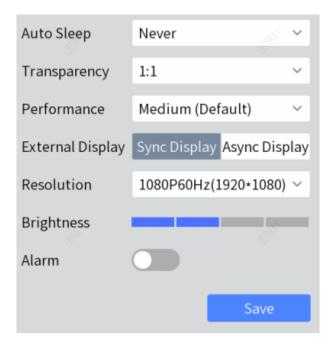
Figure 7-2 Hardware Parameters (DS-1105KI)

Transparency

Select menu transparency. Available only in local live view.

Performance

You can select minimum delay, medium (default) or default according to the actual network.

Alarm

Keyboard alarms when network disconnected or IP conflicted.

7.3 Storage

7.3.1 FTP Storage

Captured images and clipped videos will be saved to FTP server. And when you upgrade keyboard via FTP server, the upgrade file from FTP server will be uploaded to the keyboard.

Before You Start

Build a FTP server.

Steps

1. Go to **System → Storage → FTP**.
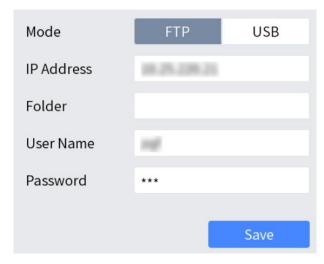
Figure 7-3 FTP Storage

2. Configure FTP server information.
   ● **IP Address**: IP address of FTP server.
   ● **Folder**: The folder name to be created in FTP server.
   ● **User Name** and **Password**: User name and password of FTP server.

   ⓘ**Note**
   The following special characters are not allowed: / \ : * ? ' " < > | %.

3. Tap **Save**.

7.3.2 USB Storage

Save captured images and clipped videos in USB flash drive.

Steps

1. Go to **System → Storage → USB**.
2. Tap **Save**.

7.4 Upgrade

You are recommended to upgrade your keyboard under the help of professional technical support. Export configuration file of the keyboard before upgrade.
For detailed steps, see _**Import/Export Configuration File**_.

7.4.1 FTP Upgrade

Steps

1. Configure FTP server. For detailed steps, see _**Storage**_.

2. Turn on FTP server and input upgrade file into FTP root folder.
3. Go to **System → Maintenance** and select FTP upgrade.
4. Enter admin password to confirm.

7.4.2 USB Flash Drive Upgrade

Steps

1. Save upgrade file in USB flash drive.
2. Connect USB flash drive to keyboard USB interface.
3. Go to **System → Maintenance** and select USB Flash Drive upgrade.
4. Enter admin password to confirm.

7.5 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. When you need to copy the data of this keyboard to another keyboard, you can also import/export the configuration file.

Steps

1. Go to **System → Maintenance**.
2. Import/export configuration file.
   - Import Configuration File:
     - Tap **Import**.
     - Enter admin password.
     - Select the database file (kbConfig) to import.
   - Export Configuration File:
     - Tap **Export**.
     - Enter admin password.
     - Select the folder to export configuration file (kbConfig).

7.6 Factory Default

Restore keyboard to factory default settings.
Go to **System → Maintenance**.
- **Simple**: Restore all parameters, except the network (including IP address, subnet mask, gateway, MTU, NIC working mode, default route, server port, etc.) and user account parameters, to the factory default settings.
- **Complete**: Restore all settings to factory default settings.

7.7 Auxiliary Key

You can set F1 or F2 as **Two-way Audio** or **Enlarge/Restore Sub-Window**. If users at the keyboard side want to have an audio call with users at the device side, set an auxiliary key as two-way audio to enable audio call.

7.8 Lock Keyboard

Steps

1. Hold **LOCK** for 3 seconds to exit to home page and lock keyboard.
2. Press **LOCK** again to unlock keyboard.

7.9 Joystick Sensitivity

Go to **System → Other**, and select the joystick sensitivity.

Chapter 8 Web Configuration

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.

8.1 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.
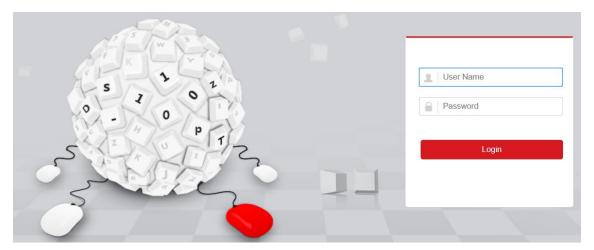
Figure 8-1 Login

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

8.2 Add Devices

8.2.1 Manually Add

When the network keyboard is used as the control center and you select the keyboard operation mode, add the device first according to this section.

Steps

1. In **Device Management** interface, select to add **Center Device** or **IPC/Network Dome**.

2. Click **Add**, select to add devices by IP address or IP segment, and enter **IP Address**, **Port**, **User Name** and **Password**, and select protocol type.
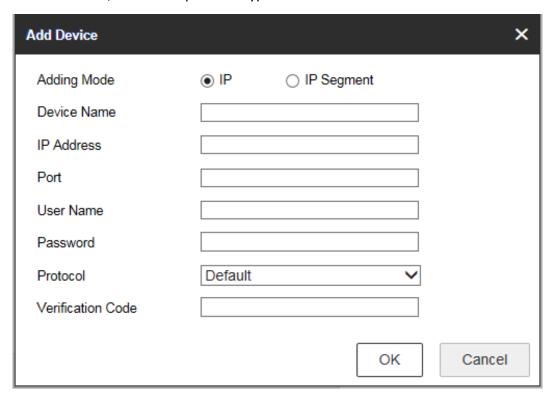
Figure 8-2 Add Device by IP Address
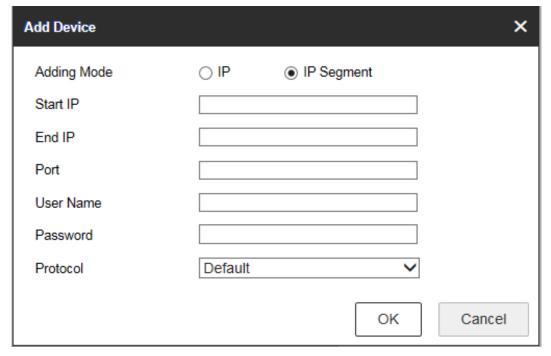
Figure 8-3 Add Device by IP Segment

Note
- It takes a long time to add devices by IP segment. Please wait patiently.
- After adding devices in IP segment mode, you need to refresh manually to get the added devices.

3. If you enable stream encryption for the device, you need to enter the verification code when adding the device by IP address.
4. Check or uncheck **Add Video Recorder Output** as desired.

Note
Check **Add Video Recorder Output**, and the output port type, channel number and other information will be listed in the output port list.

5. 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.
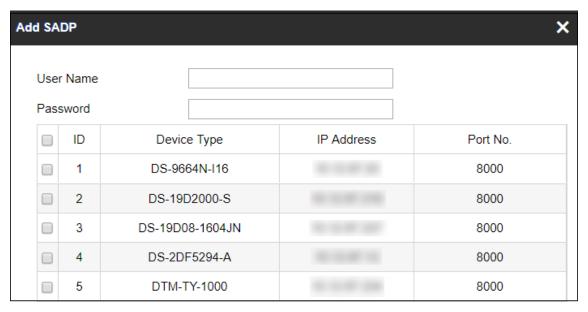
Figure 8-4 Add SADP

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

8.2.2 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**.
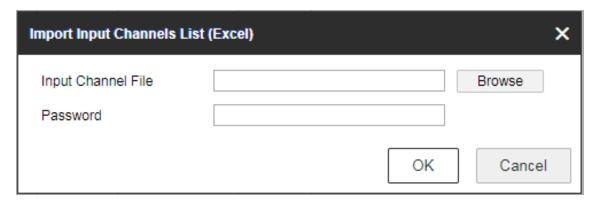
2. Click **Import**.

Figure 8-5 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.

8.3 Channel Management

8.3.1 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**.
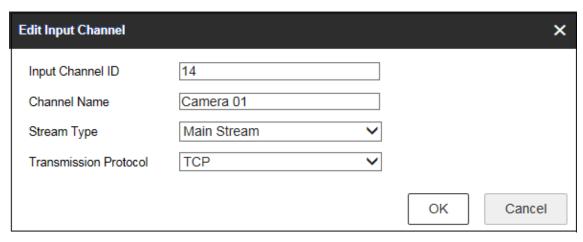
Figure 8-6 Edit Input Channel

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**.

8.3.2 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**.
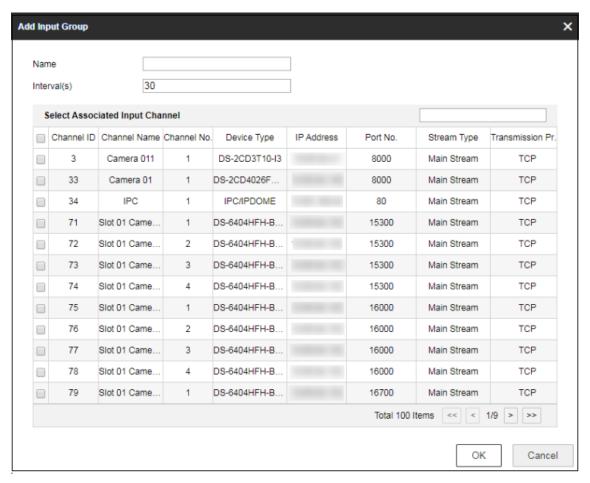
Figure 8-7 Add Camera Group

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 65535 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.

8.4 Serial Port Settings

RS-485 and RS-232 serial port parameters can be set in the **Serial Port Settings** interface. You can set baud rate, data bit, protocol type, stop bit, parity and other parameters of RS232 and RS485,

edit the address of RS485 serial port, and copy RS485 serial port settings to all.
● Configure the parameters of RS-485 port when the serial port is connected to analog dome.
● Configure the parameters of RS-232 port when the serial port is connected to the analog matrix.
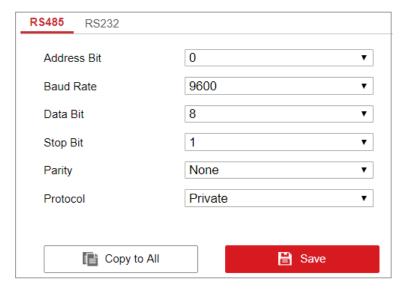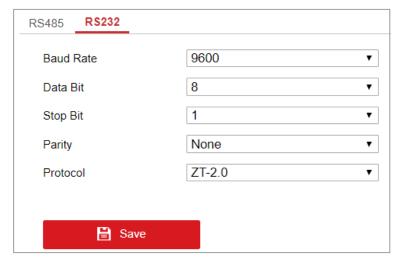

Figure 8-8 RS485 Serial Port Settings

Figure 8-9 RS232 Serial Port Settings

8.5 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**.
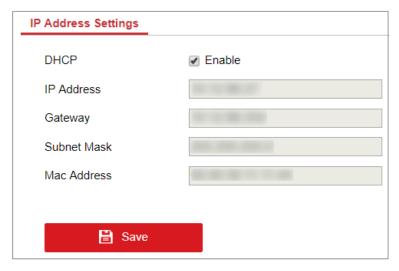
Figure 8-10 Network Parameters

8.6 System Settings

8.6.1 Version

Go to **System Management** → **Version** to view system version information, including device type, serial No., firmware version, decoding version, MCU version and web version.

Figure 8-11 Version Information

8.6.2 User Management

Administrator can add operator and allocate devices to operator. Operator permissions are as follows:

- Add, edit, and delete macro and group.
- Add, edit, and delete region.
- Deleting, editing, and adding devices are not allowed.

Steps

1. Go to **System Management** → **User Management**.
2. Click **Add**.
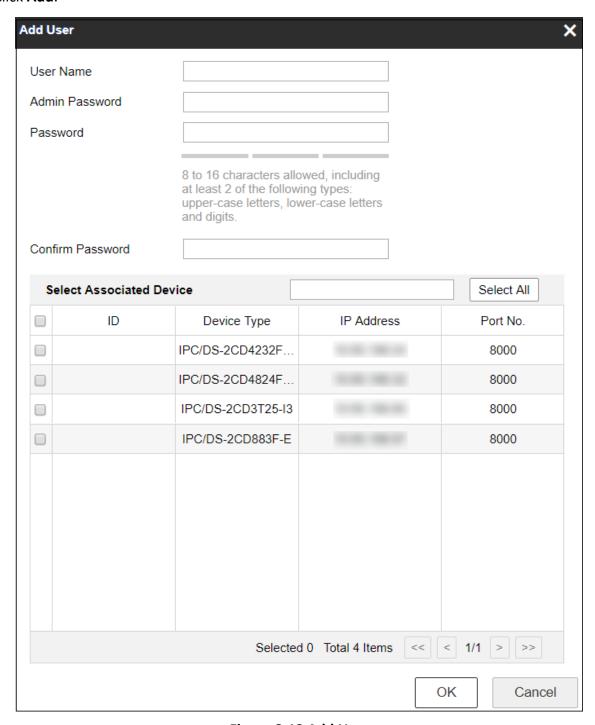
Figure 8-12 Add User

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

⚠️**Caution**

● Passwords are divided into 4 types: digits, lowercase letters, uppercase letters, and special symbols. Passwords are classified into 4 levels:

  ● Level 0 (risky password): password length < 8 or only one type of character.

  ● Level 1 (weak password): password length ≥ 8 and two types of characters. The character combination includes digits + lowercase letters and digits+ upper case letters.

  ● Level 2 (medium password): password length ≥ 8 and two types of characters. The character combination cannot be digits + lowercase letters or digits+ upper case letters.

  ● Level 3 (strong password): password length ≥ 8 and three types of characters.

● Do not use the risky passwords. To better protect your product, reset your password regularly.

● The password cannot contain the user name in the forward order and backward order (when the user name length is more than 3), 123, admin (case insensitive), a string of at least four consecutive digits (such as 1234, 12345, 4321, etc.), a string of at least four repeating characters (such as 1111, 8888, aaaa, etc.).

● The password cannot be 1qaz2wsx, 1qaz@WSX, !@#$QWER, p@ssword, passw0rd, or p@ssw0rd.

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.

8.6.3 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.
- 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 digicap.dav.

8.6.4 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.

Figure 8-13 View Logs

8.6.5 Security Settings

Go to **System Management → Security Settings**, and enable or disable SSH and SADP.
- SSH is disabled by default after the network keyboard is restarted.
- When you enable SADP, the keyboard can be searched. When you disable SADP, the keyboard cannot be searched.

See Far, Go Further

UD44571B