



DS-1600KI Network Keyboard
User Manual

User Manual

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This Manual is applicable to DS-1600KI Network Keyboard.

The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version in the company website

(<http://overseas.hikvision.com/en/>).

Please use this user manual under the guidance of professionals.

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FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC compliance: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

EU Conformity Statement



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, the LVD Directive 2014/35/EU, the RoHS Directive 2011/65/EU.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info

Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (A)/NMB-3(A) standards requirements.




Applicable Models

This manual is applicable to the models listed in the following table.

Series	Model
Network Keyboard	DS-1600KI

Symbol Conventions

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

Symbol	Description
 NOTE	Provides additional information to emphasize or supplement important points of the main text.
 WARNING	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 DANGER	Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.

Operation Convention

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

Operation	Description
Press Number + REGION	<ul style="list-style-type: none">● 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	<ul style="list-style-type: none">● 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	<ul style="list-style-type: none">● 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	<ul style="list-style-type: none">● If device is video wall or decoder:<ul style="list-style-type: none">✓ 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:

	<ul style="list-style-type: none"> ✓ 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	<ul style="list-style-type: none"> ● Keyboard mode: <ul style="list-style-type: none"> ✓ 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/KPS mode: <ul style="list-style-type: none"> ✓ 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	<ul style="list-style-type: none"> ● Press a numeric button and CAM-G button to select an input channel group. ● Number represents input channel group ID. Go to Keyboard > Channel > Loop for the ID.
Press Number + MACRO	<ul style="list-style-type: none"> ● 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	<ul style="list-style-type: none"> ● 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	<ul style="list-style-type: none"> ● Press a numeric button and MULT button to divide monitor. ● Number represents sub-window quantity.
Press Number + SCENE	<ul style="list-style-type: none"> ● Press a numeric button and SCENE button to switch video wall scene. ● Number represents scene ID. Check the ID in video wall mode.

Safety Instructions

- Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.
- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region. Please refer to technical specifications for detailed information.
- Input voltage should meet both the SELV (Safety Extra Low Voltage) and the Limited Power Source with 100~240 VAC or 12 VDC according to the IEC60950-1 standard. Please refer to technical specifications for detailed information.
- Do not connect several devices to one power adapter as adapter overload may cause over-heating or a fire hazard.
- Please make sure that the plug is firmly connected to the power socket.
- If smoke, odor or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.

Preventive and Cautionary Tips

Before connecting and operating your device, please be advised of the following tips:

- Ensure unit is installed in a well-ventilated, dust-free environment.
- Unit is designed for indoor use only.
- Keep all liquids away from the device.
- Ensure environmental conditions meet factory specifications.
- Ensure unit is properly secured to a rack or shelf. Major shocks or jolts to the unit as a result of dropping it may cause damage to the sensitive electronics within the unit.
- Use the device in conjunction with an UPS if possible.
- Power down the unit before connecting and disconnecting accessories and peripherals.
- A factory recommended HDD should be used for this device.
- Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.

TABLE OF CONTENTS

Chapter 1 Activation.....	1
1.1 Local Menu Activation.....	1
1.2 SADP Activation.....	1
Chapter 2 Network.....	3
Chapter 3 Keyboard.....	4
3.1 Login	4
3.2 Add Device	4
3.2.1 Manual Add	4
3.2.2 Add in Batch	5
3.3 Local Live View	6
3.3.1 Preview by Operating Touchscreen.....	6
3.3.2 Preview by Operating Keyboard Shortcut	6
3.3.3 PTZ Control.....	7
3.4 Video Wall.....	9
3.4.1 Video Wall Configuration	9
3.4.2 Video Wall Control	10
3.4.3 PTZ Control.....	12
3.4.4 Group and Macro	12
3.5 Playback.....	13
3.5.1 Local Playback	13
3.5.2 Video Wall Playback.....	14
3.6 Channel Management.....	14
3.6.1 Modify Channel	14
3.6.2 Output Channel.....	15
3.6.3 Input Channel Group.....	15
3.7 User	16
3.8 Video Recorder	17
3.8.1 Remote Panel	17
3.8.2 Live View	20
3.8.3 PTZ Control.....	20
3.8.4 Playback	20
Chapter 4 HikCentral Mode	21
4.1 Login	21
4.2 Resource List	21
4.3 Video Wall Operation.....	22
4.3.1 Video Wall Control	22
4.3.2 PTZ Operation.....	22
Chapter 5 KPS Mode.....	23
5.1 Login	23
5.2 Resource List	23
5.3 Video Wall Operation.....	24

5.3.1 Video Wall Control	24
5.3.2 PTZ Operation.....	24
Chapter 6 System	25
6.1 Hardware.....	25
6.2 Storage	25
6.2.1 FTP Storage.....	25
6.2.2 USB Storage.....	25
6.3 Upgrade	25
6.3.1 FTP Upgrade	26
6.3.2 USB Flash Drive Upgrade.....	26
6.4 Import/Export Configuration File.....	26
6.5 Factory Default	26
6.6 Lock Keyboard	27

Chapter 1 Activation

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

1.1 Local Menu Activation

Purpose

For the first-time access, you need to activate the network keyboard by setting an admin password. No operation is allowed before activation.

Step 1 Connect your network keyboard power supply to an electrical outlet. And turn on the network keyboard.

Step 2 Set password.



WARNING

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.

Step 3 Tap **Activate**.

1.2 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.

Step 1 Connect your network keyboard power supply to an electrical outlet. And turn on the network keyboard.

Step 2 Run the SADP software to search the online devices.

Step 3 Check the keyboard status from the device list, and select the inactive keyboard.

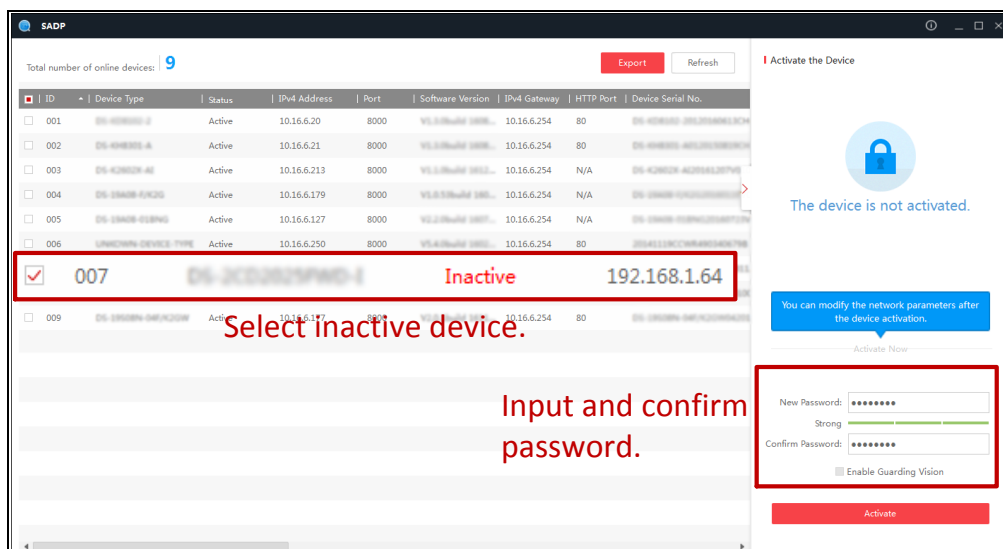


Figure 1-1 SADP Interface

Step 4 Create and input the new password in the password field, and confirm the password.



WARNING

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.

Step 5 Click **Activate**.

Chapter 2 Network

Purpose

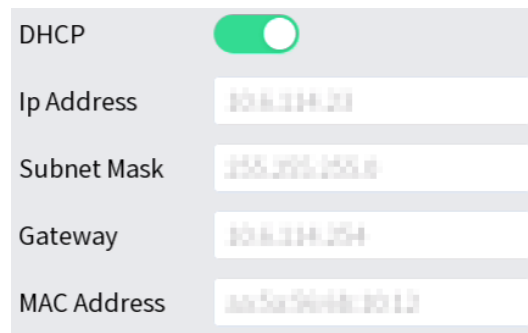
Network parameters must be properly configured before you can add network devices and operate the network keyboard over network.

Step 1 Go to **System > Network**.

Step 2 Configure network parameters.

- Check **DHCP** to obtain IP settings automatically.
- Or you can manually enter IP address, subnetwork mask, and gateway.

Step 3 Tap **Save**.



The screenshot shows a network configuration interface with a light gray background. At the top, there is a 'DHCP' label followed by a green toggle switch that is turned on. Below this, there are four rows of input fields, each with a label on the left and a text box on the right. The first row is 'Ip Address' with the value '10.0.1.10'. The second row is 'Subnet Mask' with the value '255.255.255.0'. The third row is 'Gateway' with the value '10.0.1.1'. The fourth row is 'MAC Address' with the value 'aa:55:99:aa:aa:aa'.

Label	Value
DHCP	<input checked="" type="checkbox"/>
Ip Address	10.0.1.10
Subnet Mask	255.255.255.0
Gateway	10.0.1.1
MAC Address	aa:55:99:aa:aa:aa

Figure 2-1 Network

Chapter 3 Keyboard

Purpose

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

3.1 Login

Step 1 Tap **Keyboard** at home page.

Step 2 Select user name and enter password.

Step 3 Optionally, you can check **Remember**.

Step 4 Tap **Login**.



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.

3.2 Add Device

Add network devices.

3.2.1 Manual Add

Step 1 Go to **Keyboard > Device**.

Step 2 Tap **Center Device** or **IPC** as your desires.

Step 3 Tap  .

Step 4 Enter device IP address, port, user name, and password.

- When adding video recorder, if you check **Add Record Output If Needed**, the video recorder output channel will be added. Output channel type, IP, and port will be listed in **Channel > Output Channel**. You are not recommended to check the option.
- Select protocol when adding network camera. Protocol is valid when previewing network camera in video wall.

Step 5 Tap **OK**.

Figure 3-1 Add Center Device

Figure 3-2 Add Network Camera

3.2.2 Add in Batch

Add by SADP Search

Purpose

Add devices with the same user name and password in batch.

Step 1 Go to **Keyboard > Device**.

Step 2 Tap  .

Step 3 Check devices and tap  in upper left corner.

Step 4 Enter user name and password, and tap **OK**.

Import Input Channels

Purpose


The information of added input channel can be generated into an excel file and exported to the USB flash drive for backup. Edit the exported file on your computer, like adding or deleting the contents, and import the file to keyboard to add the input channels in the file.


Before you start

Connect an USB flash drive to the network keyboard.

Step 1 Go to **Keyboard > Channel**.

Step 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.

Step 3 Tap  to import input channels.

3.3 Local Live View

Preview an input channel in keyboard touchscreen. You can preview channel of up to 4K resolution.

3.3.1 Preview by Operating Touchscreen

Step 1 Go to **Keyboard > Channel**.

Step 2 Click  of channel you want to preview.

3.3.2 Preview by Operating Keyboard Shortcut

Purpose

Press keyboard buttons to preview input channel image.


Step 1 Press **0 + MON** to enter local live view mode.

Step 2 Press **Num + CAM** to preview a single input channel.

Press **Num + CAM-G** to preview an input channel group.

Or tap  in touchscreen upper right corner and select an input channel to preview.

Step 3 During live view, you can switch live view channel, capture pictures, and clip videos.

- Press **PREV/NEXT** to switch to previous/next online input channel.
- Press the button on the top of joystick to capture a picture.
- Press recording button () to start clipping and press it again to stop clipping.

Step 4 Press **0 + CAM** to stop live view.

**NOTE**

- If you want to control PTZ without previewing speed dome image, press **Num + CAM**.
- Captured pictures and clipped videos will be saved in FTP server or USB flash drive. For detailed steps, refer to 6.2 *Storage*.

3.3.3 PTZ Control

You can control the added speed dome, including control PTZ movement, turn on/off light, turn on/off wiper, zoom in/out, set/call preset, etc.

General Operation

Step 1 Preview speed dome image. For detailed steps, refer to 3.3.1 *Preview by Operating Touchscreen* and 3.3.2 *Preview by Operating Keyboard Shortcut*.

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

Table 3-1 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.	Joystick	Rotate PTZ and start/stop auto-scan.

Set and Call Preset

Purpose

Set the preset location which you want the speed dome to point to when an event takes place.

Step 1 Preview speed dome image. For detailed steps, refer to 3.3.1 *Preview by Operating Touchscreen* and 3.3.2 *Preview by Operating Keyboard Shortcut*.

Step 2 Rotate the joystick to move PTZ to a desired position.

Step 3 Set a preset.

- 1) Press **SET** to start setting. The SET button turns red.
- 2) Press **Num + PRRESET** to set the current position as corresponding preset.
- 3) Press **SET** to finish setting.

Step 4 Press **Num + Press** to call the preset.

Set and Call Patrol

Purpose

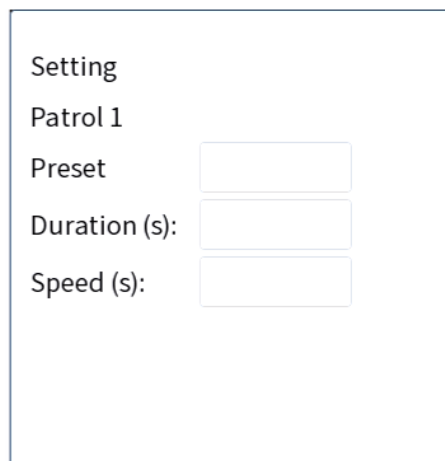
Have the PTZ moving among several presets. PTZ will stay in a preset for a duration before moving on to the next preset.

Step 1 Preview speed dome image. For detailed steps, refer to *3.3.1 Preview by Operating Touchscreen* and *3.3.2 Preview by Operating Keyboard Shortcut*.

Step 2 Press **SET** to start setting. The SET button turns red.

Step 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.



The screenshot shows a window titled 'Setting' with a sub-header 'Patrol 1'. Below this, there are three labels with corresponding input fields: 'Preset' followed by a text box, 'Duration (s):' followed by a text box, and 'Speed (s):' followed by a text box.

Figure 3-3 Set Patrol

Step 4 Press **Num + ENTER** to select preset.

Step 5 Press **Num + ENTER** to set duration.

Step 6 Press **Num + ENTER** to set speed.



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

Step 7 Repeat step 4 to 6 to set more points of the patrol.

Step 8 Press **SET** to finish setting.

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

Set and Call Pattern

Purpose

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

Step 1 Preview speed dome image. For detailed steps, refer to *3.3.1 Preview by Operating Touchscreen* and *3.3.2 Preview by Operating Keyboard Shortcut*.

Step 2 Press **SET** to start setting. The SET button turns red.

Step 3 Press **Num + Pattern** to select a pattern to set.

Step 4 Rotate the joystick to control PTZ. The movement will be recorded.

Step 5 Press **SET** to stop setting.

Step 6 Press **Num + PATTERN** to call the pattern.

3.4 Video Wall

3.4.1 Video Wall Configuration

Region Configuration

Purpose

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

Step 1 Go to **Keyboard > Region**.

Step 2 Tap .

Step 3 Enter video wall ID, start coordinate, and end coordinate.


Step 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

Step 1 Tap  of region to configure.

Step 2 Tap  of a grid.

Step 3 Select a decoding device and select its output channel.

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



Region output channel layout should be the same with the actual video wall.

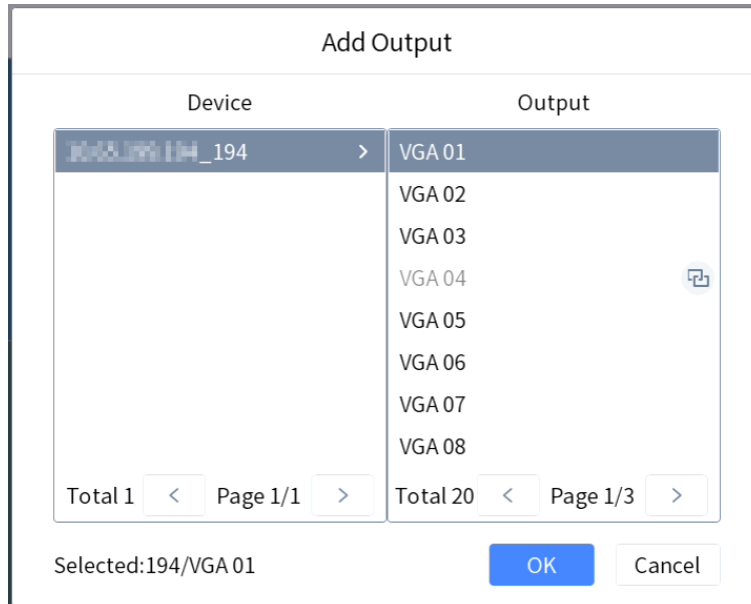


Figure 3-4 Add Output

3.4.2 Video Wall Control

Layout Operation


Purpose

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

Step 1 Press **Num + REGION**, or press **Num + WALL**.

Step 2 Tap to select a monitor.

Step 3 Operate the window as your desires.

- **Open window:** Press **Num + CAM** or **Num + CAM-G** to display an input channel or input channel group on the monitor.
- **Window roaming:** Hold a window for 3 seconds, and you can move it.
- **Close window:** Hold a window for 3 seconds, and tap  to close the window.
- **Resize window:** Double tap a window to expand it to cover all the grids it overlays.
- **Divide window:** Press **Num + MULT** to divide the window.
- **Enlarge sub-window:** Press **Num + WIN** to select a sub-window, and press **F2** to expand the sub-window to cover the whole monitor.

Window Operation

Purpose

Display an input channel or input group on a monitor.

Step 1 Select a monitor to display. Three methods are provided. You are recommended to use the first one.

- Num + REGION: Select a monitor on a region.
 - 1) Press **Num + REGION** to show monitors on the region and video wall layout.
 - 2) Press **Num + MON**. Or tap to select a monitor.
- Num + WALL: Select a monitor on a wall.
 - 1) Press **Num + WALL**. For roaming device, WALL refers to video wall. For decoder, WALL refers to joined screen.



NOTE

- Roaming device: DS-69UD, DS-64HD-T (enable roaming), Multi-Function Video Center, video wall controller.
 - Decoder: DS-6316D-T, DS-6416HD-S, DS-64HD-T (disable roaming).
 - For 69UD and 65UD decoders (roaming device supporting one video wall), always keyboard selects the number 1 video wall, whatever the Num is.
 - For C10S (roaming device supporting multiple video walls), select the corresponding video wall.
 - For 64HD-T decoder (device supporting joined screen), select the corresponding joined screen.
- 2) Press **Num + MON**. Or tap to select a monitor.
- Num + MON: Select a monitor directly.
 - 1) Press **Num + MON** to select a monitor.

Step 2 Select an input channel or input channel group to preview.


- 1) Press **Num + WIN**, or tap to select a sub-window on the touchscreen.
- 2) Press **Num + CAM** to preview the input channel.

Press **Num + CAM-G** to preview the input channel group.



Or tap in touchscreen upper right corner and select an input channel to preview.

Step 3 During live view, you can switch live view input channel, capture pictures, and clip videos.

- Press **PREV/NEXT** to switch to previous/next online input channel.
- Press the button on the top of joystick to capture a picture.
- Press recording button () to start clipping and press it again to stop clipping.

Scene Operation


Purpose

Switch the scene for a region or video wall.

Step 1 Press **Num + REGION**, or press **Num + WALL**.

Step 2 Select a monitor or window on touchscreen.

Step 3 Press **Num + SCENE**.

Or tap  on the upper right corner and select a desired scene.

3.4.3 PTZ Control

Purpose

You can control the added speed dome, including control PTZ movement, turn on/off light, turn on/off wiper, zoom in/out, set/call preset, etc.

Step 1 Display speed dome image on video wall. For detailed steps, refer to *Window Operation*.

Step 2 Control PTZ. For detailed steps, refer to *3.3.3 PTZ Control*.

3.4.4 Group and Macro

Purpose

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

Step 1 Go to **Keyboard > Macro**.

Step 2 Tap  .

Step 3 Enter macro name and press keyboard buttons to enter commands.

Step 4 Tap **Save**.



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.

Step 5 Press **Num + MACRO** to call the macro.

3.5 Playback


3.5.1 Local Playback


Play videos on the touchscreen.

Instant Playback

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


Step 1 Start local live view. For detailed steps, refer to 3.3.1 *Preview by Operating Touchscreen* and 3.3.2 *Preview by Operating Keyboard Shortcut*.

Step 2 Press  to start playing the video within 5 minutes.

Or tap , tap **Instant**, and select the playback time.

Play by Time

Step 1 Start local live view. For detailed steps, refer to 3.3.1 *Preview by Operating Touchscreen* and 3.3.2 *Preview by Operating Keyboard Shortcut*.

Step 2 Tap , tap **By Time**, and select a day in calendar.

Play Control

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

Before you start

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, refer to 6.2 *Storage*.


- Capture: During playback, press the button on the top of joystick to capture current image.
- Clip: During playback, press  to start clipping. Press it again to stop clipping.

Table 3-2 Button Description

Button	Description	Button	Description
	During playback, press it to start instant playback.		Stop/resume playback.
	Pause playback.		Jump backward for 30 seconds.
	During playback, press it to start clipping. Press it again to stop		Jump forward for 30 seconds.

Button	Description	Button	Description
	clipping.		
Inner shuttle	Reserved.	Outer shuttle	<ul style="list-style-type: none"> • Rotate it clockwise to speed up. • Rotate it anticlockwise to slow down.
Time bar	Drag time bar to quickly locate on a certain time to play.		


3.5.2 Video Wall Playback


Play videos on video wall. You can only play videos of DS-64-T and DS-69UD decoder.

Instant Playback

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


Step 1 Start video wall live view. For detailed steps, refer to *Window Operation*.

Step 2 Press  to start playing the video within 5 minutes.

Or tap , tap **Instant**, and select the playback time.

Play by Time

Step 1 Start video wall live view. For detailed steps, refer to *Window Operation*.

Step 2 Tap , tap **By Time**, and select a day in calendar.

Play Control


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

For detailed steps, refer to *Play Control*.

3.6 Channel Management

3.6.1 Modify Channel

Step 1 Go to **Keyboard > Channel**.

Step 2 Tap  of input channel/output channel to modify. We take the example of modifying input channel to describe the steps.

The screenshot shows a 'Modify Input Channel' dialog box with the following fields and options:

- ID:** A text input field containing the number '1'.
- Channel:** A text input field containing 'Camera 01'.
- Stream:** Two radio button options: 'Main-Stream' (selected) and 'Sub-Stream'.
- Protocol:** Three radio button options: 'TCP' (selected), 'UDP', and 'MCAST'.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom right.

Figure 3-5 Modify Input Channel

Step 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 in video wall live view mode.

Step 4 Tap **OK**.

3.6.2 Output Channel

When adding decoders or video recorders, keyboard will add their output channels and display them in output channel list. Video wall can link to these output channels. Or press **Num + MON** to operate an output channel. The number refers to output channel ID.

3.6.3 Input Channel Group

Purpose

Channel group is a group of input channels.

Step 1 Go to **Keyboard > Channel > Loop**.

Step 2 Tap  .


Step 3 Enter group name and interval.

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

Step 4 Tap **OK**.

Step 5 Add input channel to input channel group.

1) Tap  of a group.

2) Tap  of input channel to link.

Or check input channels and tap .

NOTE

- Up to 32 input channel groups can be added.
- One input group can link up to 64 input channels.
- Interval range: 1 to 65535 seconds.

3.7 User

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

- Add, modify, and delete macro and group.
- Add, modify, and delete region.
- Operator devices allocated by administrator. Deleting, modifying, and adding devices are not allowed.
- Configure FTP server.

Step 1 Go to **Keyboard > System > User**.

Step 2 Tap .


Step 3 Enter operator user name and password, and tap **OK**.


WARNING

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.

Step 4 Allocate devices to operator.

1) Tap  of a operator.

2) Tap  of device to link.

Or check devices and tap .

**NOTE**

Keyboard supports up to 32 users: 1 administrator and 31 operators.

3.8 Video Recorder

Control video recorder (DVR/NVR/XVR) by operating video record remote panel.

3.8.1 Remote Panel

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

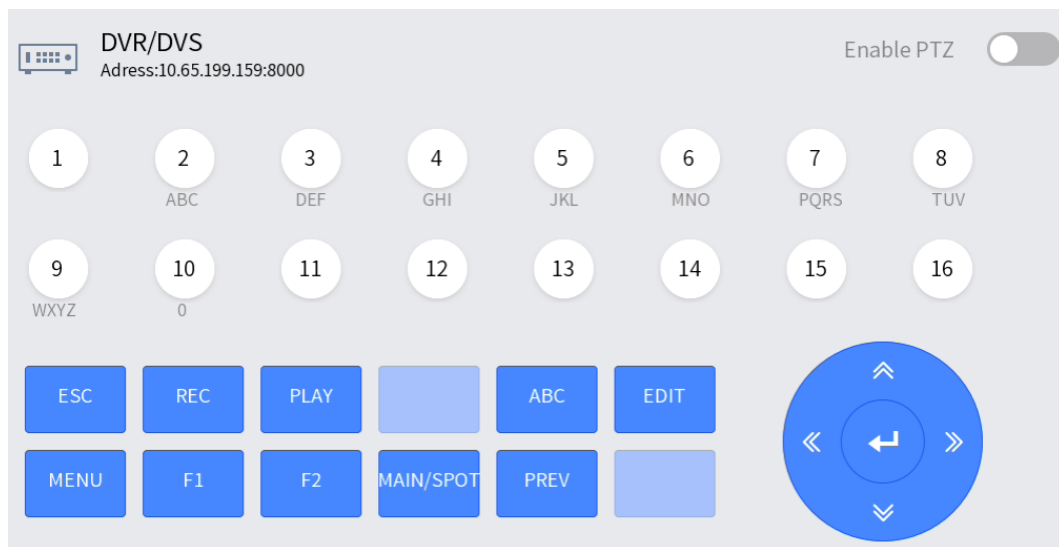


Figure 3-6 Remote Panel (Disable PTZ)

Table 3-3 Button Description

Button	Description
Enable PTZ	In PTZ live view mode, enable PTZ to enter PTZ control mode.
Numeric Key	<ul style="list-style-type: none"> • In editing mode, tap it to enter number 1 to 10. • In live view or PTZ mode, tap it to switch channel. • During playback, tap it to switch channel.
ESC	Exit current menu.
REC	Start/stop manual recording.
PLAY	<ul style="list-style-type: none"> • 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 characters.

EDIT	<ul style="list-style-type: none"> ● In editing mode, tap it to delete the content before the cursor. ● Check/uncheck a checkbox.
MENU	<ul style="list-style-type: none"> ● Enter main menu interface. ● In second-level menu, tap it to go back to live view interface. ● During playback, tap it to hide control bar.
F1	<ul style="list-style-type: none"> ● During playback, tap it to switch between play and reverse play. ● In live view mode, tap it to start instant playback.
F2	<ul style="list-style-type: none"> ● 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 menu output between main port and auxilliary port.
PREV	In live view mode, tap it to switch image division.
Directional Button	<ul style="list-style-type: none"> ● Move the active selection in a menu. Tap it to move the selection up and down. ● In live view mode, tap it to cycle through different channels. ● In playback mode: <ul style="list-style-type: none"> ✓ Up: Tap it to speed up. ✓ Down: Tap it to slow down. ✓ Left: Tap it to switch to previous file/event/tag/day. ✓ Right: Tap it to switch to next file/event/tag/day.
Enter	<ul style="list-style-type: none"> ● Confirm an operation. ● Check a checkbox. ● During playback, tap it to stop/resume playback. ● In single frame playback mode, tap it to play next frame.

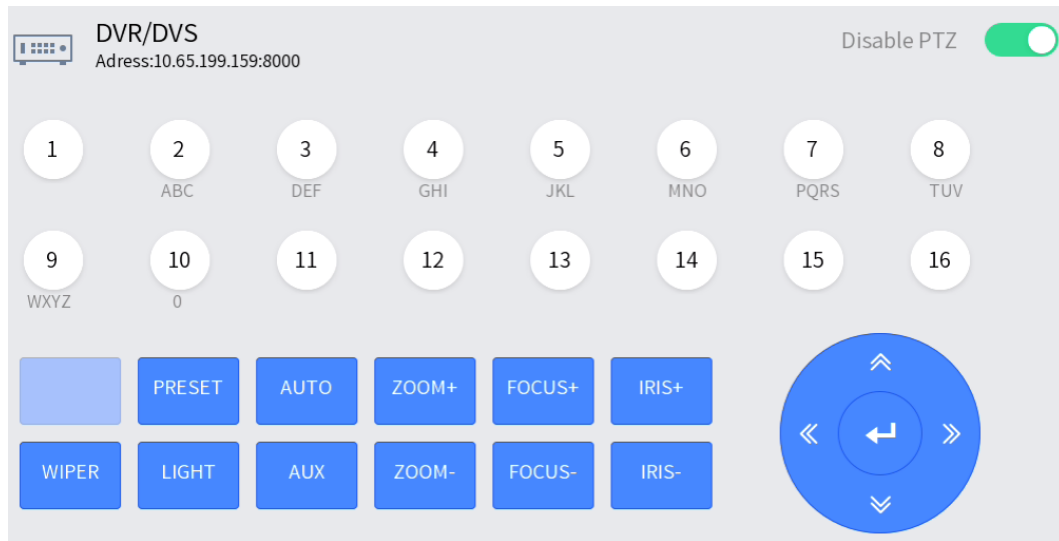


Figure 3-7 Remote Panel (Disable PTZ)

Table 3-4 Button Description

Button	Description
Disable PTZ	Exit PTZ control mode.
Numeric Button	Switch to corresponding channel.
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.
Enter	In auto-scan mode, tap it to stop/resume auto-scan.

3.8.2 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.

3.8.3 PTZ Control

You can control the added speed dome, including control PTZ movement, turn on/off light, turn on/off wiper, zoom in/out, set/call preset, etc.

General Operation

Operate the joystick and buttons to control PTZ.

Call a Preset

Tap **PRESET + Num.**

3.8.4 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.

Chapter 4 HikCentral Mode

4.1 Login

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

Step 2 Tap **IP Config** at upper right corner.

Step 3 Enter server IP and port, and save.

IP: The server IP address of HikCentral platform.

Step 4 Enter server user name and password.

Step 5 Optionally, you can check **Remember**.

Step 6 Tap **Login**.



NOTE

- After several failed login attempts, you need to enter verification code. The login attempt times are decided by platform.
- When a platform user attempts to log into platform for the first time, the network keyboard will prompt “Need login on the client first.”

4.2 Resource List

Resource list interface appears after logged into HikCentral. 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.

- Tap the dropdown list at upper right corner to view video wall ID and select a video wall.
- Tap to select a control center or region to view its subordinate camera ID.
- You can only modify camera ID in HikCentral platform. Log into HikCentral platform via web browser and go to **System > Advanced > Camera ID**.

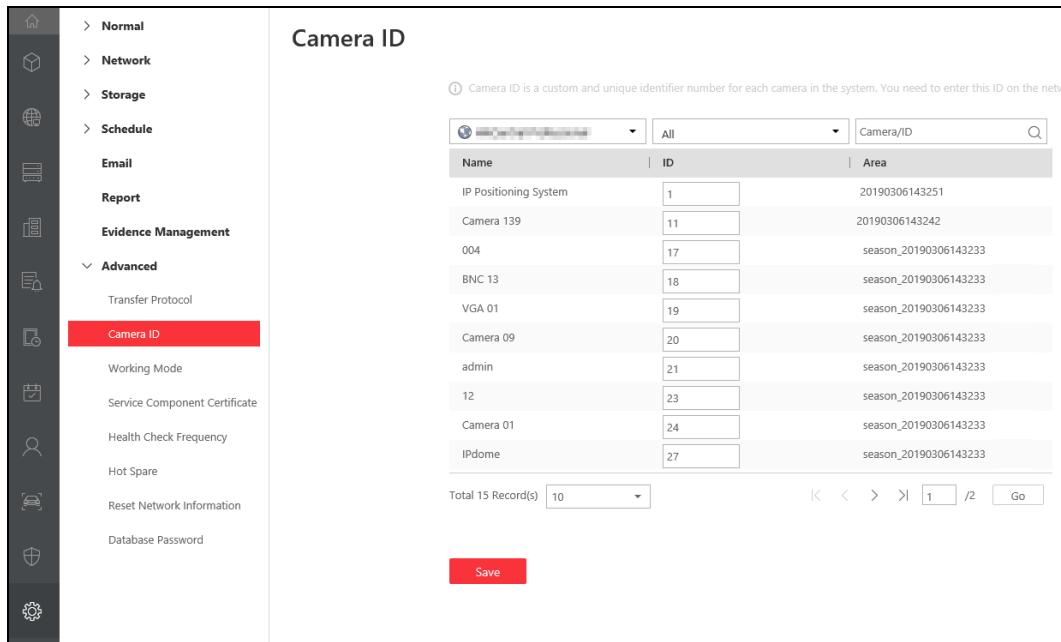


Figure 4-1 Modify Camera ID

4.3 Video Wall Operation

4.3.1 Video Wall Control

- Select a monitor to open, close, resize, and divide windows.
- Select a video wall and switch its scene.
- Display a camera on video wall monitor or sub-window.
- Does not support region. Num + REGION operation is valid.
- Does not support input channel group.

For detailed steps, refer to 3.4.2 *Video Wall Control*.

4.3.2 PTZ Operation

You can control the added speed dome, including control PTZ movement, turn on/off light, turn on/off wiper, zoom in/out, set preset/patrol/pattern, etc.

For detailed steps, refer to 3.3.3 *PTZ Control*.

Chapter 5 KPS Mode

5.1 Login

Step 1 Tap **KPS** at home page.

Step 2 Tap **IP Config** at upper right corner.

Step 3 Enter server IP and port, and save.

IP: The server IP address of KPS platform.

Step 4 Enter server user name and password.

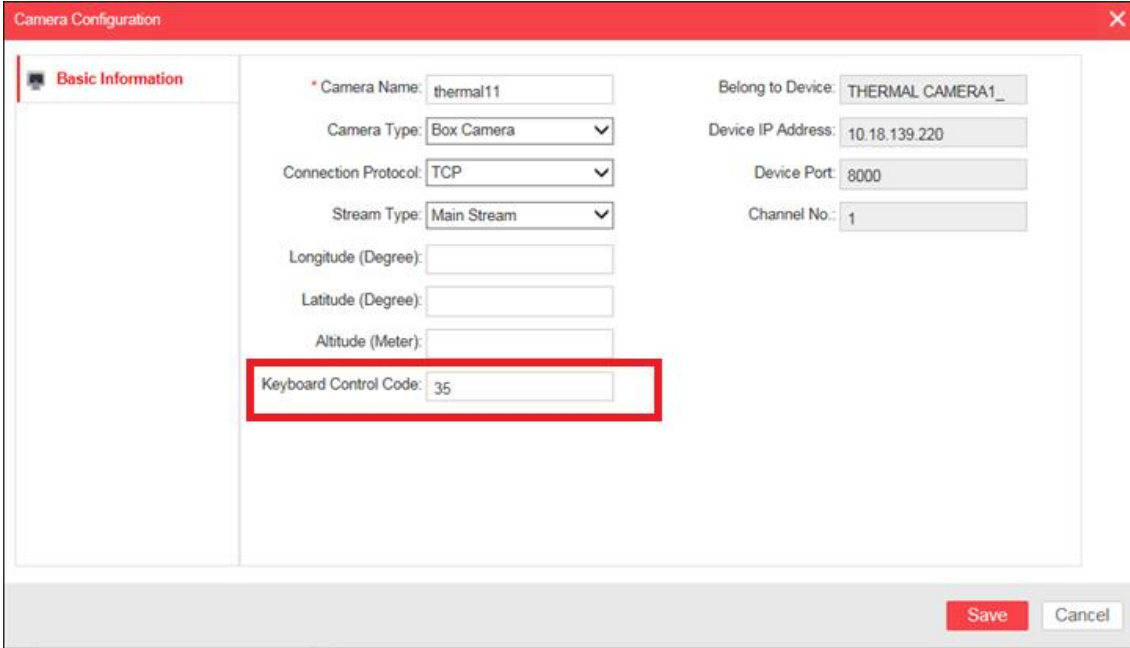
Step 5 Optionally, you can check **Remember**.

Step 6 Tap **Login**.

5.2 Resource List

Resource list interface appears after logged into KPS. 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.

- Tap the dropdown list at upper right corner to view video wall ID and select a video wall.
- Tap to select a control center or region to view its subordinate camera ID.
- You can modify camera ID in KPS platform. Log into KPS platform via web browser and go to **Basic Application > Resource > Basic Configuration > Hardware**, select an area, and select a camera to modify its **Keyboard Control Code**.



The screenshot shows a 'Camera Configuration' window with a 'Basic Information' tab. The 'Keyboard Control Code' field is highlighted with a red box and contains the value '35'. Other fields include 'Camera Name' (thermal11), 'Camera Type' (Box Camera), 'Connection Protocol' (TCP), 'Stream Type' (Main Stream), 'Longitude (Degree)', 'Latitude (Degree)', 'Altitude (Meter)', 'Device IP Address' (10.18.139.220), 'Device Port' (8000), and 'Channel No.' (1). The 'Save' and 'Cancel' buttons are at the bottom right.

Figure 5-1 Modify Keyboard Control Code

5.3 Video Wall Operation

5.3.1 Video Wall Control

- Does not support **Num + REGION** and **Num + WALL** operation. You can only select monitor by pressing **Num + MON**.
- Does not support input channel group.
- Does not support open, close, resize, and divide a window.

For detailed steps, refer to 3.4.2 *Video Wall Control*.

5.3.2 PTZ Operation

You can control the added speed dome, including control PTZ movement, turn on/off light, turn on/off wiper, zoom in/out, set preset/patrol/pattern, etc.

For detailed steps, refer to 3.3.3 *PTZ Control*.

Chapter 6 System

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

6.1 Hardware

- **Transparency:** Select menu transparency. Only valid in local live view.
- **Alarm:** Keyboard alarms when network disconnected or IP conflicted.

6.2 Storage

6.2.1 FTP Storage

Captured pictures and clipped videos will be saved to FTP server. And when upgrade keyboard via FTP server, keyboard will load upgrade file from FTP server.

Before you start

Build a FTP server.

Step 1 Go to **System > Storage > FTP**.

Step 2 Configure FTP server information.

- **Address:** FTP server IP address.
- **Folder:** The folder name to create in FTP server.
- **User Name** and **Password:** FTP server user name and password.

Step 3 Tap **Save**.

6.2.2 USB Storage

Save captured pictures and clipped videos in USB flash drive.

Step 1 Go to **System > Storage > USB**.

Step 2 Tap **Save**.

6.3 Upgrade

You are recommended to upgrade your keyboard under the help of professional technical writer. Export keyboard configuration file before upgrade. For detailed steps, refer to *6.4 Import/Export Configuration File*.

6.3.1 FTP Upgrade

Step 1 Configure FTP server. For detailed steps, refer to 6.2 Storage.

Step 2 Turn on FTP server and input upgrade file into FTP root folder.

Step 3 Go to **System > Maintenance** and select FTP upgrade.

Step 4 Enter admin password to confirm.

6.3.2 USB Flash Drive Upgrade

Step 1 Save upgrade file in USB flash drive.

Step 2 Connect USB flash drive to keyboard USB interface.

Step 3 Go to **System > Maintenance** and select USB Flash Drive upgrade.

Step 4 Enter admin password to confirm.

6.4 Import/Export Configuration File

Step 1 Go to **System > Maintenance**.

Step 2 Import/export configuration file.

- Import Configuration File:
 - 1) Tap **Import**.
 - 2) Enter admin password.
 - 3) Select the database file (kbConfig.bin) to import.
- Export Configuration File:
 - 1) Tap **Export**.
 - 2) Enter admin password.
 - 3) Select the folder to export configuration file (kbConfig.bin).

6.5 Factory Default

Restore keyboard to factory default settings.

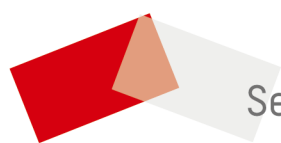
Go to **System > Maintenance**.

- **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.

6.6 Lock Keyboard

Step 1 Hold **LOCK** for 3 seconds to exit to home page and lock keyboard.

Step 2 Press **LOCK** again to unlock keyboard.



See Far, Go Further