

# Professional Surveillance Keyboard Quick Guide

# Contents

1 Packing List .....	3
2 Appearance .....	3
2.1 Keyboard Layout .....	3
2.2 Joystick Function .....	6
2.3 Keyboard Interfaces .....	7
3 Cable Connection .....	8
3.1 Connect RS485 Connector .....	8
4 Startup and Shutdown .....	8
4.1 Startup .....	8
4.2 Shutdown .....	9
5 Setup .....	9
5.1 Set the Network .....	9
5.2 Add NVR Devices .....	9
5.3 Manage Users .....	10
6 Common Operations .....	10
6.1 Basic Concept .....	10
6.2 Control a PTZ Camera .....	11
6.3 Play Live Video .....	12
6.4 Control Menus .....	12
6.5 Multi-Window View .....	13
Disclaimer and Safety Warnings .....	14

# 1 Packing List

No.	Name	Qty	Unit
1	Keyboard	1	PCS
2	Feet	4	PCS
3	Serial port cable <sup>1)</sup>	1	PCS
4	User document	1	PCS

# 2 Appearance

The images are for reference only and may be different from the device.

## 2.1 Keyboard Layout



Table 2-1 Keyboard Layout

No.	Name	Description	
1	Screen	LCD screen.	
2	Indicator	PWR (Power)	Steady blue: normal operation.
		NET (Network)	Steady blue: normal network connection.
		TX/RX (Data transmission)	Blinks blue: transmitting data.

No.	Name		Description
		ALM (Alarm)	Blinks red: alarm occurred.
3	Playback keys		Reserved.
			Reserved.
			Reserved.
			Reserved.
			Reserved.
			Reserved.
4	Knob		Reserved.
5	Function keys	ESC	Cancel or exit.
		LOCK	Lock.
		SYS	Open the main menu.
		SHIFT	Switch input method.
		ID	Device ID.
		SET	Set.
		MON	Use with a number key to select a monitor.
		WIN	Use with a number key to select a window on screen.
		CAM	Use with a number key to select a camera.
		PANEL	Reserved.
		MULT	Use with a number key to set a multi-window view on screen.
		MON_G	Reserved.
		CAM_G	Reserved.
		GROUP	Reserved.
PRESET	Call or set preset.		

No.	Name		Description
		PATROL	Call or set patrol.
		ROUTE	Call or set route.
		RUN/STOP	Reserved.
		REC	Reserved.
		PREV	Display the previous screen in NVR control mode during sequence.
		NEXT	Display the next screen in NVR control mode during sequence.
6	Number/letter keys	Number keys (1 to 9) and letter keys (A to Z)	Input numbers or letters. Press SHIFT to switch.
		CLEAR	Delete input.
		0/ 	Number key 0. Space.
		ENTER	Confirm.
7	PTZ control keys	FOCUS+/MENU	Increase camera focus in PTZ control mode. Open the main menu in NVR control mode.
		FOCUS-/R_CLICK	Decrease camera focus in PTZ control mode. In NVR control mode, show the shortcut menu that appears with a right-click of the mouse.
		IRIS+/MUTE	Increase camera iris in PTZ control mode. Turn off audio in NVR control mode.
		IRIS-/TOOLBAR	Decrease camera iris in PTZ control mode. Display toolbar in NVR control mode.
		ZOOM+/F1	Zoom in in PTZ control mode. Switch active area (e.g., text

No.	Name		Description
			box, drop-down list) on a tab in NVR control mode (same as F1).
		ZOOM-/F2	Zoom out in PTZ control mode. Switch tabs in NVR control mode (same as F2).
		LIGHT/PTZ	Turn on light in PTZ control mode. Display PTZ control window in NVR control mode.
		WIPER/EDIT	Turn on wiper in PTZ control mode. Switch control mode in NVR control mode. Input numbers or letters in menu mode.
8	Auxiliary keys (AUX1-AUX5)		For expansion.
9	Joystick		Control PTZ cameras. See Joystick Function for details.
10	SWITCH		Press once: confirm. Press twice: snapshot when controlling PTZ camera or recording video.

## 2.2 Joystick Function

Table 2-2 Joystick Functions

Operation	Description
Up	<ul style="list-style-type: none"> <li>• Navigate between menu items.</li> <li>• Tilt up in PTZ control mode.</li> <li>• Play fast or select the previous menu in NVR control mode.</li> </ul>
Down	<ul style="list-style-type: none"> <li>• Navigate between menu items.</li> <li>• Tilt down in PTZ control mode.</li> <li>• Play slow or select the next menu in NVR control mode.</li> </ul>

Operation	Description
Left	<ul style="list-style-type: none"> <li>• Navigate between menu items.</li> <li>• Turn left in PTZ control mode.</li> </ul>
Right	<ul style="list-style-type: none"> <li>• Navigate between menu items.</li> <li>• Turn right in PTZ control mode.</li> </ul>
Upper left/lower left/upper right/lower right	Control directions in PTZ control mode.
Rotate counterclockwise	Zoom out in PTZ control mode.
Rotate clockwise	Zoom in in PTZ control mode.

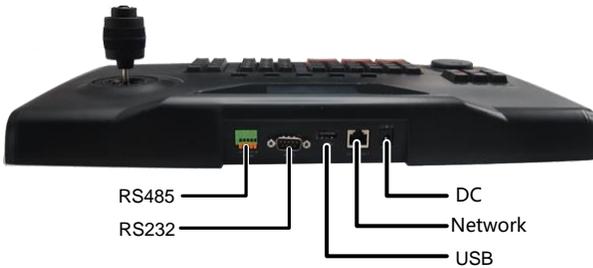


### NOTE!

In PTZ control mode, the further you tilt the joystick, the faster the camera rotates. The joystick allows the maximum rotation degree of  $\pm 45^\circ$ . Use the joystick carefully to avoid damage.

## 2.3 Keyboard Interfaces

### 1. Network keyboard



### 2. Serial-interface keyboard

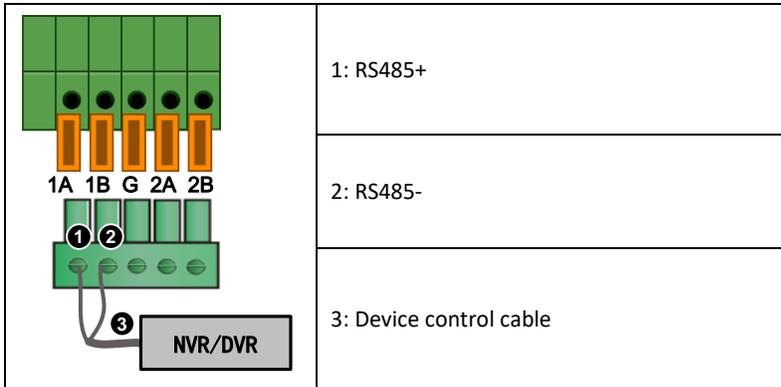


## 3 Cable Connection

### 3.1 Connect RS485 Connector

Connect an NVR through the RS485 connector.

Connect A of the RS485 connector to RS485+ of NVR, and connect B to RS485- of NVR, as shown below.



#### NOTE!

Only 2A and 2B of the RS485 connector can be used to connect keyboards in parallel.

## 4 Startup and Shutdown

### 4.1 Startup

1. Connect power. The power LED is lit. When the system time displays on the screen, press ENTER.
2. Use the joystick (tilt left/right/up/down) to navigate and input the correct username and password.



## NOTE!

- The default admin username/password is admin/123456. The default operator username/password is user/123456.
  - Press SHIFT to switch inputs between numeric, uppercase letters, and lowercase letters.
  - When locked, the system time displays on the screen. To display the main menu, press ENTER and input the username and password.
- 

3. Press ENTER to display the main menu.

## 4.2 Shutdown

Exit the system and then unplug power to shut down the keyboard.

# 5 Setup

Access the main menu first. See Startup for detailed steps.

## 5.1 Set the Network

1. Tilt the joystick up/down to navigate. Press ENTER to select. Press ESC to exit.  
Path: Main Menu>Local Cfg>Net Cfg
2. Use the joystick to locate the cursor. Press number keys to input the IP, subnet mask, and gateway.



## NOTE!

Default IP address: 192.168.1.16.

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## 5.2 Add NVR Devices

Only admin can add devices.

### 1 Preparation

- Log in to the NVR and note down its device ID (to be used in Step 2).
- Make sure the NVR to add is connected.

## 2 Steps

1. Tilt the joystick up/down to navigate. Press ENTER to select.  
Path: Main Menu>Dev Manage>Manual Cfg>Add Dev
2. Set the device ID, name, type and connection method.



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### NOTE!

The device ID must be set correctly. See Basic Concept for details.

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- If the keyboard is connected to the NVR through an RS232 or RS485 interface, press ENTER and then complete settings. The protocol, baud rate, data bit, check bit, and stop bit should be the same as settings in the NVR.
- If the keyboard is connected to the NVR through network, press ENTER and then input the NVR's IP address.

## 5.3 Manage Users

1. Tilt the joystick up/down to navigate. Press ENTER to select.  
Path: Main Menu>Advance Cfg>User Manage
2. Add and delete users as needed or change user password.

# 6 Common Operations

Access the main menu first. See Startup for detailed steps.

## 6.1 Basic Concept

ID refers to device ID.

If the NVR is connected through the RS485 serial interface, you need to input the NVR's actual ID (you can find out by logging in to the NVR) and set the serial interface in the NVR as follows: serial interface mode to keyboard, protocol to UV-1, baud rate to 9600, data bit to 8, stop bit to 1, and check bit to none.

If the NVR is connected through network, the preceding requirement on ID is unnecessary because device IDs are only used for searching.

## 6.2 Control a PTZ Camera

Use the joystick or PTZ control keys to operate a PTZ camera connected via an NVR.



### 1 Option 1

1. Press ID.
2. Input the NVR's device ID and then press ENTER. The basic device information is displayed.
3. Press ENTER to confirm.
4. Press a number key and then press MON to specify the monitor.
5. Press a number key and then press WIN to specify the preview window linked to the PTZ camera.



#### **NOTE!**

- You need to log into the NVR first; otherwise PTZ control is unavailable.
- PTZ control is unavailable if the specified window links to more than one camera.

6. Press PTZ to activate PTZ control mode.
  - Use the PTZ control keys to adjust zoom and focus.
  - Use the joystick to control the rotation direction and speed (speed depends on the degree of rotation). Twist the joystick to zoom in and out.
7. Press ESC to exit PTZ control mode.

### 2 Option 2

You need to log in to the NVR and note down the camera's device ID (to be used in Step 4).

1. Press ID.
2. Input the NVR's device ID and then press ENTER. The basic device information is displayed.
3. Press ENTER to confirm.

4. Press a number key and then press CAM to specify the PTZ camera.
5. Press PTZ to activate PTZ control mode.
  - Use the PTZ control keys to adjust zoom and focus.
  - Use the joystick to control the rotation direction and speed (speed depends on the degree of rotation). Twist the joystick to zoom in and out.
6. Press ESC to exit PTZ control mode.

## 6.3 Play Live Video

Play live video on the monitor's screen in the current screen layout (e.g., 4 windows).

1. Press ID.
2. Input the NVR's device ID and then press ENTER. The basic device information of is displayed.
3. Press ENTER to confirm.
4. Press a number key and then press MON to specify the monitor.
5. Press a number key and then press WIN to specify the preview window.
6. Press a number key and then press CAM to specify the camera.
7. Press ENTER.

## 6.4 Control Menus

Control NVR menus.

1. Press ID.
2. Input the device ID and then press ENTER.
  - R\_CLICK: Show the shortcut menu that appears with a right-click of the mouse in a preview window.
  - MENU: Display the main menu.
  - ESC: Return to the previous window.
  - MUTE: Turn off audio
  - TOOLBAR: Show the toolbar
  - F1: Switch active area such as text box, drop-down list on a tab.
  - F2: Switch tab on screen

## 6.5 Multi-Window View

Change the preview layout (number of on-screen windows) on NVR.

1. Press ID.
2. Input the NVR's device ID and then press ENTER.
3. Press MULT till the desired multi-window view appears, or press a number key and then press MULT.

# Disclaimer and Safety Warnings

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## About This Manual

- This manual is intended for multiple product models, and the photos, illustrations, descriptions, etc. in this manual may be different from the actual appearances, functions, features, etc. of the product.
- This manual is intended for multiple software versions, and the illustrations and descriptions in this manual may be different from the actual GUI and functions of the software.
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- Users must assume total responsibility and all risks for connecting the product to the Internet, including, but not limited to, network attack, hacking, and virus. Uniview strongly recommends that users take all necessary measures to enhance the protection of network, device, data and personal information. Uniview disclaims any liability related thereto but will readily provide necessary security related support.
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- To the extent allowed by applicable law, in no event shall Uniview's total liability to you for all damages for the product described in this manual (other than as may be required by applicable law in cases involving personal injury) exceed the amount of money that you have paid for the product.

## Network Security

Please take all necessary measures to enhance network security for your device.

#### The following are necessary measures for the network security of your device:

- **Change default password and set strong password:** You are strongly recommended to change the default password after your first login and set a strong password of at least nine characters including all three elements: digits, letters and special characters.
- **Keep firmware up to date:** It is recommended that your device is always upgraded to the latest version for the latest functions and better security. Visit Uniview's official website or contact your local dealer for the latest firmware.

#### The following are recommendations for enhancing network security of your device:

- **Change password regularly:** Change your device password on a regular basis and keep the password safe. Make sure only the authorized user can log in to the device.
- **Enable HTTPS/SSL:** Use SSL certificate to encrypt HTTP communications and ensure data security.
- **Enable IP address filtering:** Allow access only from the specified IP addresses.
- **Minimum port mapping:** Configure your router or firewall to open a minimum set of ports to the WAN and keep only the necessary port mappings. Never set the device as the DMZ host or configure a full cone NAT.
- **Disable the automatic login and save password features:** If multiple users have access to your computer, it is recommended that you disable these features to prevent unauthorized access.
- **Choose username and password discretely:** Avoid using the username and password of your social media, bank, email account, etc, as the username and password of your device, in case your social media, bank and email account information is leaked.
- **Restrict user permissions:** If more than one user needs access to your system, make sure each user is granted only the necessary permissions.
- **Disable UPnP:** When UPnP is enabled, the router will automatically map internal ports, and the system will automatically forward port data, which results in the risks of data leakage. Therefore, it is recommended to disable UPnP if HTTP and TCP port mapping have been enabled manually on your router.
- **SNMP:** Disable SNMP if you do not use it. If you do use it, then SNMPv3 is recommended.
- **Multicast:** Multicast is intended to transmit video to multiple devices. If you do not use this function, it is recommended you disable multicast on your network.
- **Check logs:** Check your device logs regularly to detect unauthorized access or abnormal operations.
- **Physical protection:** Keep the device in a locked room or cabinet to prevent unauthorized physical access.
- **Isolate video surveillance network:** Isolating your video surveillance network with other service networks helps prevent unauthorized access to devices in your security system from other service networks.

#### Learn More

You may also obtain security information under Security Response Center at Uniview's official website.

## Safety Warnings

The device must be installed, serviced and maintained by a trained professional with necessary safety knowledge and skills. Before you start using the device, please read through this guide carefully and make sure all applicable requirements are met to avoid danger and loss of property.

#### Storage, Transportation, and Use

- Store or use the device in a proper environment that meets environmental requirements, including and not limited to, temperature, humidity, dust, corrosive gases, electromagnetic radiation, etc.
- Make sure the device is securely installed or placed on a flat surface to prevent falling.
- Unless otherwise specified, do not stack devices.
- Ensure good ventilation in the operating environment. Do not cover the vents on the device. Allow adequate space for ventilation.
- Protect the device from liquid of any kind.
- Make sure the power supply provides a stable voltage that meets the power requirements of the device. Make sure the power supply's output power exceeds the total maximum power of all the connected devices.
- Verify that the device is properly installed before connecting it to power.
- Do not remove the seal from the device body without consulting Uniview first. Do not attempt to service the product yourself. Contact a trained professional for maintenance.
- Always disconnect the device from power before attempting to move the device.
- Take proper waterproof measures in accordance with requirements before using the device outdoors.

#### Power Requirements

- Installation and use of the device must be in strict accordance with your local electrical safety regulations.
- Use a UL certified power supply that meets LPS requirements if an adapter is used.
- Use the recommended cordset (power cord) in accordance with the specified ratings.
- Only use the power adapter supplied with your device.
- Use a mains socket outlet with a protective earthing (grounding) connection.
- Ground your device properly if the device is intended to be grounded.

#### Battery Use Caution

- When battery is used, avoid:
  - High or low extreme temperatures during use, storage and transportation;
  - Extremely low air pressure, or low air pressure at high altitude;
  - Battery replacement.
- Use the battery properly. Improper use of the battery such as the following may cause risks of fire, explosion or leakage of flammable liquid or gas.

- Replace battery with an incorrect type;
- Dispose of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery;
- Dispose the used battery according to your local regulations or the battery manufacturer's instructions

**Avertissement de l'utilisation de la batterie**

- Lorsque utiliser la batterie, évitez:
  - Températures extrêmement élevées ou basses pendant l'utilisation, le stockage et le transport;
  - Pression d'air extrêmement basse, ou pression d'air basse à haute altitude;
  - Remplacement de la batterie.
- Utilisez la batterie correctement. Mauvaise utilisation de la batterie comme celles mentionnées ici, peut entraîner des risques d'incendie, d'explosion ou de fuite liquide de gaz inflammables.
  - Remplacer la batterie par un type incorrect;
  - Disposer d'une batterie dans le feu ou un four chaud, écraser mécaniquement ou couper la batterie;
- Disposer la batterie utilisée conformément à vos règlements locaux ou aux instructions du fabricant de la batterie.

**Regulatory Compliance**

**FCC Statements**

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Compliance Information Statement refer to:

[http://en.uniview.com/Support/Download\\_Center/Product\\_Installation/Declaration/](http://en.uniview.com/Support/Download_Center/Product_Installation/Declaration/)

**Caution:** The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class A 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.

**LVD/EMC Directive**



This product complies with the European Low Voltage Directive 2014/35/EU and EMC Directive 2014/30/EU.

**WEEE Directive–2012/19/EU**



The product this manual refers to is covered by the Waste Electrical & Electronic Equipment (WEEE) Directive and must be disposed of in a responsible manner.

**Battery Directive-2013/56/EC**



Battery in the product complies with the European Battery Directive 2013/56/EC. For proper recycling, return the battery to your supplier or to a designated collection point.

# Better Security, Better World



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[globalsupport@uniview.com](mailto:globalsupport@uniview.com)