



Quick Start Guide

GD-KB-AP1420P

EN

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Quick Guide

About this guide

The guide includes instructions for using and managing the product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the guide is subject to change, without notice, due to firmware updates or other reasons.

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Safety and Installation Instructions

Introduction

Please read these instructions carefully and keep them for future reference. You must heed all the warnings and cautions as well as follow all the safety and installation instructions.

The appearance of the products, functions and firmware or software upgrade may differ from this manual.

GRUNDIG reserves the right to perform needed changes without prior notice.

Safety Instructions

Make sure that you only use the power adapter that is specified in the specifications sheet of the product. If you use any other adapter or connect the power supply incorrectly, this may cause explosion, fire, electric shocks or damage the product. Do not connect several devices to one power adapter as this may cause an adapter overload and can lead to over-heating and fire. Make sure that the plug of the power adapter is firmly connected to the power socket.

Do not place containers with liquids on the product. Do not place conducting items like tools, screws, coins or other metal items on the product. These may fall from the product or can cause fire or electric shocks or other physical injuries.

Do not push or insert any sharp items or any objects into the device as this may cause damage to the product, fire, electric shocks and/or physical injuries.

Do not block any ventilation openings, if there are any. Ensure that the product is well ventilated to prevent any over-heating.

Do not subject the device to physical shock or drop the product.

If the product uses batteries, please use a battery type that is recommended by the manufacturer. Improper use or replacement of the battery may result in the hazard of explosion.

Do not use any accessories that are not recommended by GRUNDIG. Do not modify the product in any way.

If the product starts to smell or smoke comes out of the device, immediately stop using the product and disconnect it from the power supply to prevent fire or electric shocks. Then contact your dealer or the nearest service center.

If the product does not work correctly, contact your dealer or nearest service center. Never open, disassemble or alter the product yourself. GRUNDIG cannot accept any liability or responsibility for problems caused by attempted and unauthorized repair and maintenance.

Installation Instructions

It is necessary to fix the device firmly if the product is installed on a wall or ceiling. Do not install the product on surfaces or in places that are vibrating. Do not install the product near radiation sources.

Do not install the product near heat sources, like radiators or other equipment that produces some heat. If the product is not classified by any IP class, do not install the product in very cold or

hot temperatures (please refer to the working temperature specified in the specification sheet of the product), dusty, dirty or damp environment.

If the product is classified by any IP class, never touch the product cover directly with your fingers, because the acidic sweat of the fingers may damage the surface coating of the product cover. To clean the inside and outside of the product cover, use a soft and dry cloth. In any case, do not use alkaline detergents. The correct configuration of all passwords and other security settings is the sole responsibility of the installer and/or end-user (this applies especially to IP Cameras and Recorders).

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1 Overview

1.1 Introduction

The GD-KB-AP1420P product is a new generation and cost-effective control keyboard. The keyboard works well with a large variety of devices, such as network cameras, speed domes, DVRs and NVRs. Featuring a 4-axis Hall effect joystick, a 128 × 64 dot-matrix screen, easy-to-operate press keys, the product is a perfect solution for medium and small sized monitor centers in industries such as intelligent building, transportation, and public security.

In this manual, configuration and keyboard operation sections applies to GD-KB-AP1420P serial keyboard.

1.2 Features

- 128 × 64 screen
- 4-axis joystick
- Connectable to domes and realize PTZ control and picture capture via joystick operation
- Accessible to DVRs/NVRs (with KB ports) via network or serial ports, and operation of front panel buttons
- 16 user accounts management: 1 admin and 15 operators
- System upgrade and import/export of configuration files via USB-flash disk
- Supports serial communication
- Accessible to devices via RS-485/422 serial ports

1.3 Appearance

See Figure 1-1 for the appearance of the keyboard.



Figure 1-1 Keyboard Appearance

1.4 Interfaces and Buttons

See Figure 1-2 for the interfaces and joystick of the keyboard.

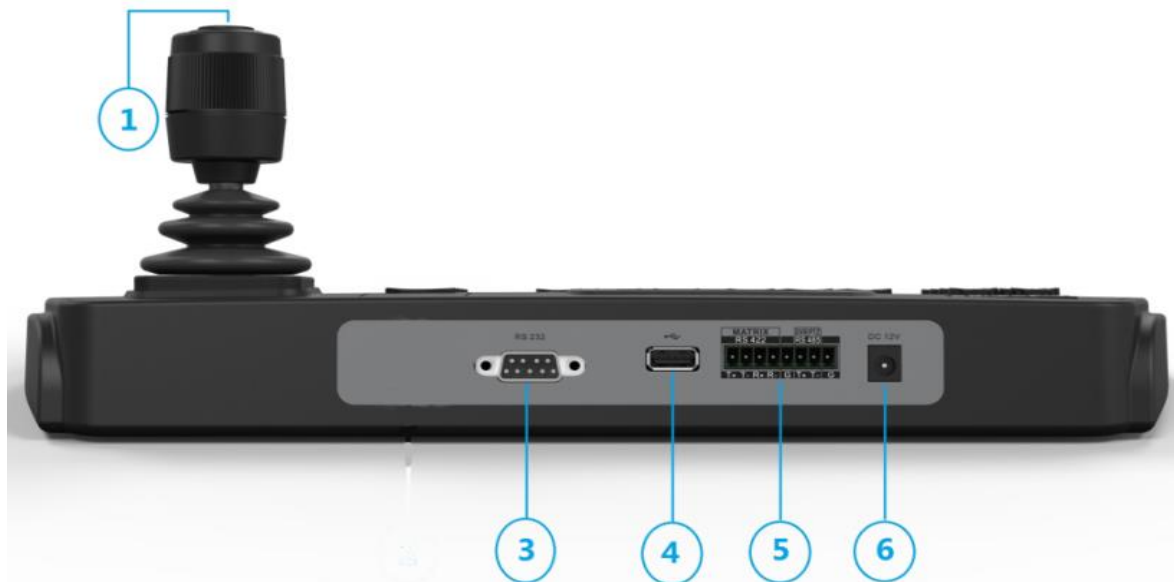


Figure 1-2 Interfaces

See Figure 1-2 for the interfaces and joystick of the keyboard.

Table 1-1 Description of Rear Panel

SN	Item	Description
1	4-axis joystick	<ul style="list-style-type: none"> In menu mode, <ul style="list-style-type: none"> Move to up/down to select the menu for configuration. Move to left/right to select items in menu. When entering the value in the field, move to the left to clear the previous character. Press the central button to confirm. In shortcut operation mode, <ul style="list-style-type: none"> Move the joystick to realize pan/tilt movement in 8 directions. And the PTZ speed is depending on the joystick movement range. Rotate the joystick in clockwise/anti-clockwise directions to I to realize the zoom in/out control. Press the central button to capture picture. In DVR operation mode,

		In preview mode, move to up/down or left/right to switch between screens (previous/next). In playback mode, move up/down to speed up or slow down playback videos at a normal speed.
3	RS-232 serial interface	<ul style="list-style-type: none"> ● Connect with analog matrixs ● Connect with analog speed domes via VISCA
4	USB interface	Universal Serial Bus (USB) port for additional devices such as USB-flash disk
5	RS-422 serial interface	Connect with MAGs
	RS-485 serial interface	Connect with DVRs/NVRs or analog speed domes
6	Power supply	12 VDC power input

1.5 Functional Buttons

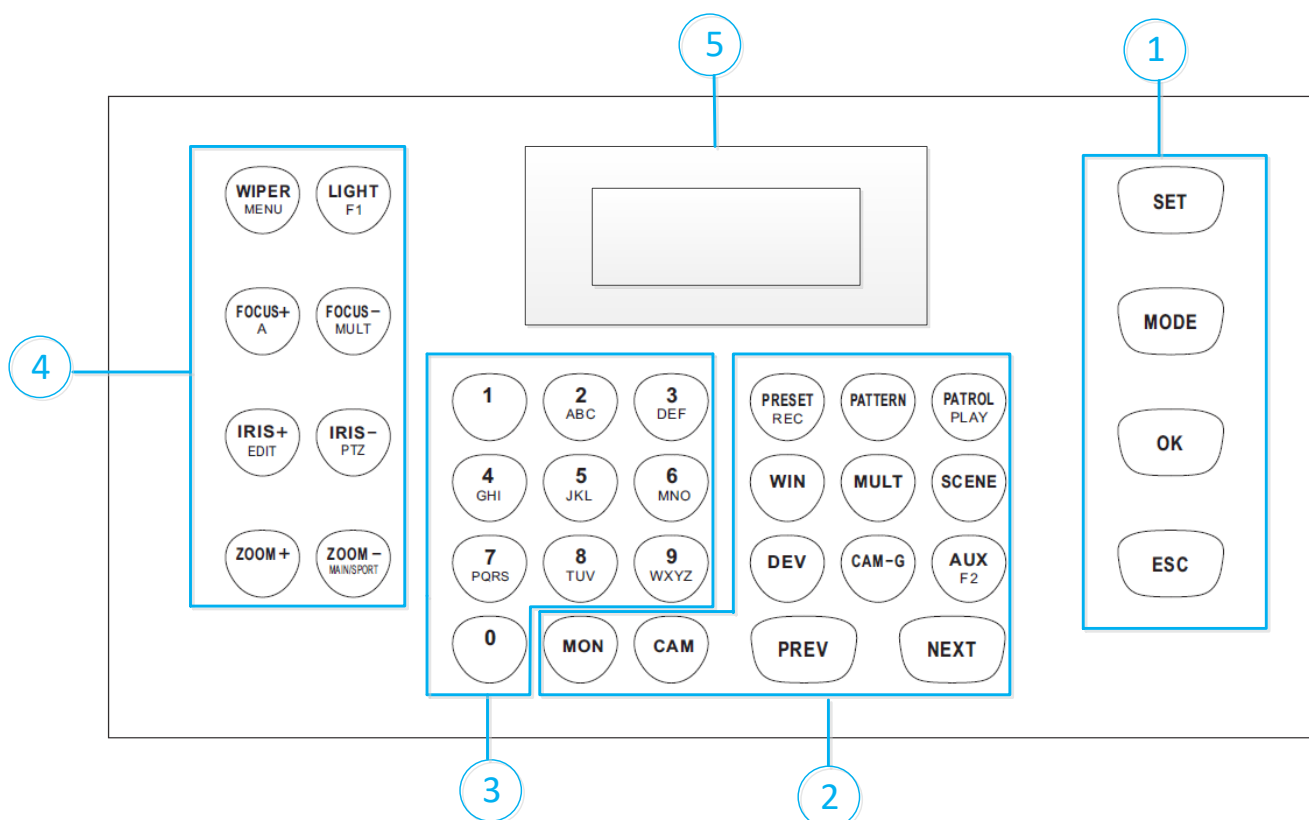


Figure 1-3 Functional Buttons

Buttons on the front panel are used to control PTZ functions of cameras, video wall operations, and local keyboard menu operations. See Table 1-2 for the description of each button. When your keyboard is connected to DVR/NVR, the keyboard can be used to call the device menu and realize

PTZ control through the virtual panel. For remote device menu operations, see 0 for the description of each button.

Table 1-2 Description of Buttons for Keyboard Operation

SN	Item	Button	Description
1	Common Buttons	SET	Enter the main menu of the system.
		MODE	Enter the 6 operation modes interface.
		OK	Confirm the menu item selection and operation.
		ESC	Cancel and back to the pervious menu.
2	Video Wall Control	MON	Use with the numeric buttons to select the monitor.
		CAM	Use with the numeric buttons to select the camera.
		RRESET/REC	Use with the numeric buttons to call the preset.
		PATTERN	<ul style="list-style-type: none"> ● Press <i>PATTERN</i> directly or <i>0 + PATTERN</i> to call the auto scanning. ● Use with the numeric (> 0) buttons to call the pattern.
		PATROL/PLAY	Use with the numeric buttons to call the patrol.
		WIN	<ul style="list-style-type: none"> ● Use with the numeric buttons to select window of video wall. ● Press <i>WIN</i> directly to zoom in or zoom out the selected window.
		MULT	Use with the numeric buttons to select the window division modes of video wall.
		SCENE	<ul style="list-style-type: none"> ● Press <i>SCENE</i> directly to display the scene list. ● Use with the numeric buttons to switch the scenes.
		DEV	Use with the numeric buttons to select the device ID. Note: As IPCs and network speed domes do not have device IDs but channel IDs, use CAM IDs instead when selecting the devices.
CAM-G	Use with the numeric buttons to select the camera group.		

		Wall/AUX	<ul style="list-style-type: none"> ● Use with the numeric buttons to select the video wall ID or joint screen ID. ● In SCMS Platform operation mode, obtain the video wall list, and use with the numeric buttons to select a video wall. ● In SCMS Platform operation mode, press <i>SCENE</i> directly to obtain the scene list, and use with the numeric buttons to select a scene.
		PREV	In the shortcut operation mode, switch to the previous camera ID or camera group ID.
		NEXT	In the shortcut operation mode, switch to the next camera ID or camera group ID.
3	Alphanumeric Buttons	0-9/A-Z/a-z	Inputs numbers and characters in edit mode. Press <i>FOCUS+/A</i> button to switch between upper case letters (A-Z) and lower case letters (a-z).
4	PTZ Control	WIPER/MENU	In PTZ control mode, turn on/off the wiper.
		LIGHT/F1	In PTZ control mode, turn on/off the light.
		FOCUS+/A	<ul style="list-style-type: none"> ● In PTZ control mode, operate the focus far. ● In edit mode, switch the character input mode: numerals (123), upper case (ABC) and lower case (abc).
		FOCUS-/MULT	In PTZ control mode, operate the focus near.
		IRIS+/EDIT	In PTZ control mode, operate the iris open.
		IRIS-/PTZ	In PTZ control mode, operate the iris close.
		ZOOM+	In PTZ control mode, operate the zoom in.
		ZOOM-MAIN/SPOT	In PTZ control mode, operate the zoom out.
5	LCD Display		128 × 64 pixel screen for display of menu.

Table 1-3 Description of Buttons for Controlling DVR/NVR

SN	Item	Button	Description
1	Common Buttons	OK	Confirm the selection and operation. In preview mode, start or stop previewing when the switch time is not set as 0.
		ESC	Exit the PTZ mode. Return to the previous menu.
2	Playback Control	RRESET/REC	In preview mode, enable or disable all-day scheduled recording for all channels.
		PATROL/PLAY	In preview mode, open the playback mode. In playback mode, select entry and exit date and time.
		WALL/AUX	Switch between playback modes
3	Alphanumeric Buttons	0-9	In edit mode, input digits. In preview mode, switch between preview channels. In playback mode, switch between playback channels.
4	DVR Control	WIPER/MENU	In preview mode, focus on the Preview button in the navigation bar; in other modes, go to the preview interface. Select all the list on the main menu.
		LIGHT/F1	In playback mode, forward or playback the recording files In preview mode, instantly start playing back recordings of the last 5 minutes.
		FOCUS+/A	In edit mode, switch the character input mode: numerals (123), upper case (ABC) and lower case (abc).
		FOCUS-/MULT	In preview and playback mode, divide the screen.
		IRIS+/EDIT	Go to the edit mode. In edit mode, delete characters before the cursor. Select checkboxes.
		IRIS-/PTZ	In preview mode, go to the PTZ mode.
		ZOOM-/MAIN/SPOT	Switch between the main and auxiliary interface.

2 Getting Started

1.6 Activate Your Device

Purpose:

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

In the Device Activation interface, enter the admin password in the text field of **Admin Password** and **Confirm**.

Note:

In edit mode, you can press the FOCUS+/A button on the keyboard panel to switch the character input mode: numerals (123), upper case (ABC) and lower case (abc).

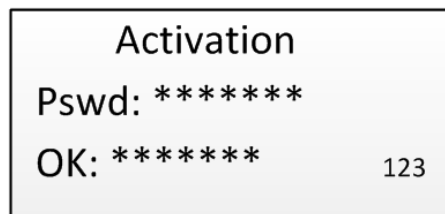


Figure 1-4 Activation

Warning!

STRONG PASSWORD RECOMMENDED—We highly recommend that you create a strong password of your own choosing (8 to 16 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend that you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

Step 2 Click **Confirm** to finish the device activation.

Note:

- After the device is activated, you need to adjust the date and time settings.
- If you have restored the device to default settings, you need to reactivate the device.

1.7 Login

Purpose:

You must log in to the device before configuring the keyboard, and operating the menu and other functions.

Local Login

Step 1 In the Login interface, enter the user name in the User Name field.

Step 2 Enter the password in the Password field.

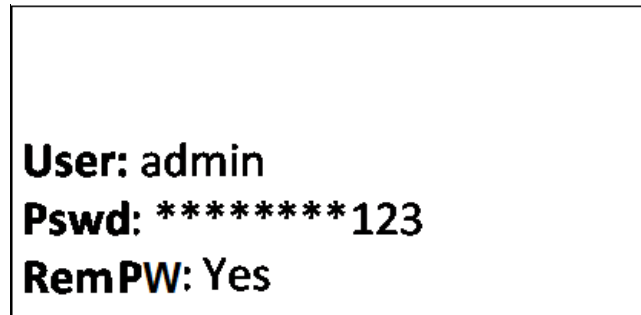


Figure 1-5 Login

Step 3 Press the **OK** button to log in to the device.

Note:

- In the Login dialog box, if you enter the wrong password 7 times for admin user or 5 times for operators, the current user account will be locked for 30 minutes.
- If you select Remember Password, the system will remember the password for the current user without remembering the previous one.

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