GRUNDIG

User Guide

GD-KB-AC1420P

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1 Product Overview

1.1 Introduction

Thank you for purchasing a **GRUNDIG** product. Before installing or connecting the product, please read first the following documents which you can find in the product package:

- Legal Disclaimer

- Safety Instructions

- Installation Manual for the respective product model

Further information about the product like Data Sheets, CE Documents, etc. can also be found on our homepage www.grundig-security.com.

This User Guide is a user manual for a USB-Joystick keyboard.

Please read this User Guide carefully and retain it for future use.

1.2 Key Features

- Power supply and communication by USB interface directly.
- 4D PTZ control and 2 joystick control buttons.
- Up to 15 programmable buttons are available.
- Support digital tube to display the input content.
- Support indicators to show the operation status of keyboard.
- Compatible with a various kinds of client software and platform software.
- Support USB HID protocol.

2 Functional Buttons and Joystick

2.1 Functional Buttons and Indicators

Refer to the following figure and table for the description of the functional buttons and indicators.

Figure 1-1 Keyboard Buttons and Indicators

Table 2-1 Description of Keyboard

NO.	Button & Indicator	Function Description
1	Capture	USB Keyboard Mode: capture picture; USB Joystick Mode: custom shortcut as number 12;
2	Record	USB Keyboard Mode: record video; USB Joystick Mode: custom shortcut as number 11;
3	Joysctick	Pan/tilt movement and zoom in/out control;
4	Window Indicator	In window switching mode;
5	Channel Indicator	In channel switching mode;

6	Digital Tube	Display the input number and message;
6	0 to 9 Number Buttons	USB Keyboard Mode: select window or channel; USB Joystick Mode: customizable;
7	Window/Channel Switch	Press and hold it for more than 5s to switch between keyboard mode and joystick mode; USB Keyboard Mode: select window switching mode or channel switching mode; (The window indicator lights while in window switching mode; and the channel indicator lights while in channel switching mode.)
8	Enter	USB Keyboard Mode: confirm the input number;
9	F1, F2, F3	USB Keyboard Mode: customizable; USB Joystick Mode: F1-13, F2-14, F3-15.

2.2 Joystick Description

Table 2-2 Description of Joystick

Graphic	Operation	Function
	Up	PTZ control mode: tilt up
	Down	PTZ control mode: tilt down
	Left	PTZ control mode: pan left
	Right	PTZ control mode: pan right
	Contrarotate	Zoom out
	Clockwise rotate	Zoom in

Note:

The PTZ speed varies according to the joystick moving amplitude.

3 Keyboard Operation

The keyboard is compatible with the client software and platform software. You can use the keyboard to operate the PTZ control and video wall.

Note:
- This chapter introduces the application of C-WERK system as an example.
- Before configuration and operation, plug the keyboard to the USB interface of your computer where the C-WERK system is installed. Please install the driver to computer properly.

3.1 Setting Keyboard Shortcut Functions

The keyboard can provide some frequently used functions of the system. You can set the shortcuts for keyboard to get quick and convenient access to the commonly used actions.

Step 1: Open the C-WERK Client.

Step 2: Go to **Options > Hotkeys** page.

Step 3: Click the **Functions** tab to enter the Keyboard and Joystick Settings interface.

Step 4: Select the device **Microsoft PC-Joystick driver** from the input list.

Step 5: Set the hot keys of the keyboard operation in the **Global** function page.

It supports shortcut settings to speed up, speed down, focus, iris, switch the camera layout, switch to next monitor etc.

1) Select a certain function from the list.
2) Double-click the item field under Hot keys.

Select the compound buttons operation or number from the **General** list to set it as the shortcuts for the function of the USB-keyboard.
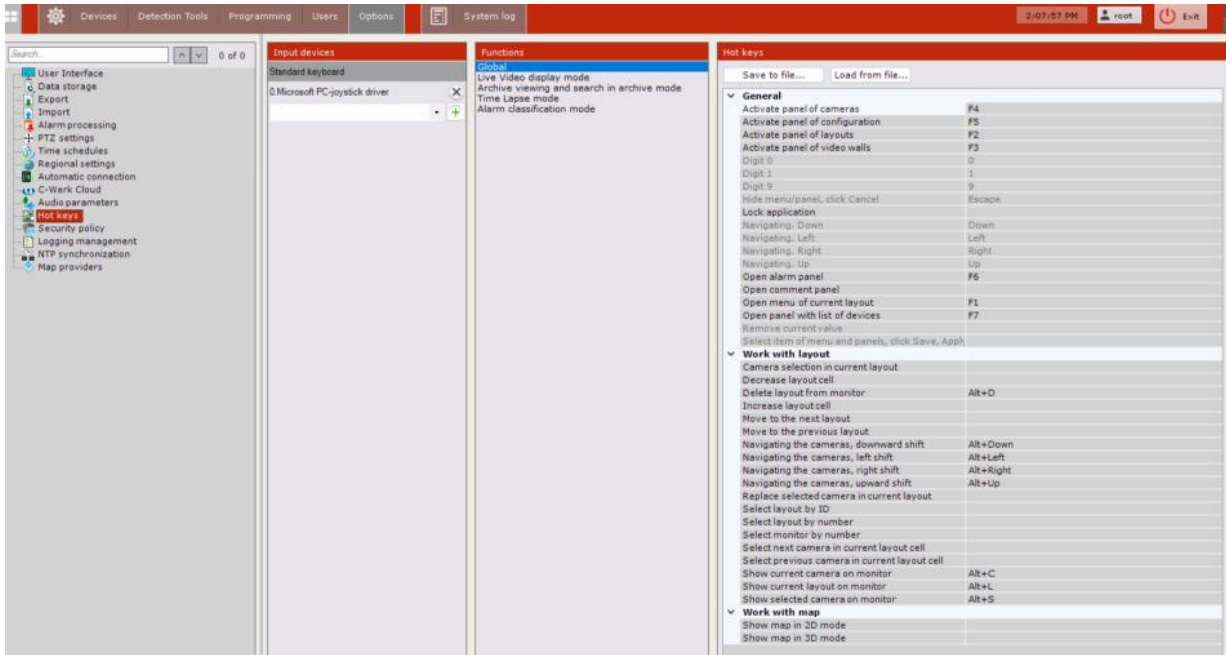
Figure 3.1 Hot keys setting

Note:

Refer to the Chapter 2.1 Functional Buttons and Indicators for the definition of numeric buttons, capture, record, F1, F2 and F3 shortcuts
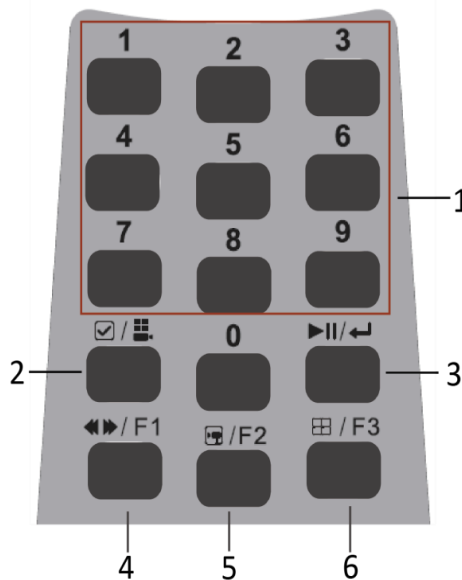
3.2 Operating with C-WERK

Figure 3-2 Botton settings

Table 3-2 Description of Keyboard Buttons and Joystick

Index	Name	Description
1	0 to 9 Number Buttons	Press to select displayed channel images corresponding with the selected number buttons in live view or PTZ control; Input numbers or characters in the edit mode; Select channels in all-day playback.
2	Switch	● Press and hold for 5 seconds to switch between joystick mode and keyboard mode of keyboard. ● Enter main menu interface in joystick mode. ● Check the checkbox.
3	Enter	Confirm operation of menu mode; Check the checkbox and ON/OFF shift; Start/pause in playback; frame forward in single frame play; Pause/recover auto swtich in live view.
4	F1	Check all list; Control light in PTZ control;
5	F2	Switch between menu tabs; Switch channels in synchronous playback.
6	F3	Multi-camera switch.
	Joystick	Clockwise rotation for zoom in and counterclockwise rotation for zoom out; Press the left button on the top of the joystick to enter PTZ control interface directly; Press the right button on the top of the rocker to exit and return to the previous menu; The 4 directions (up, down, left, right) of the rocker control respectively the operation of the 4 directions of PTZ control.

3.3 USB Keyboard Mode

Under USB keyboard mode, you can use the keyboard to control PTZ, switch camera, and switch the window in the live view or video wall interface, as well as capture pictures and record in live view.

3.3.1 Setting USB Keyboard Mode

On the operation panel of the keyboard, press and hold the Window/Channel () button for 5s until only one indicator lights to switch to the USB keyboard mode.

3.3.2 Switching Windows in Video Wall or Live

You can operate the keyboard in USB keyboard mode to switch the windows in video wall and live view.

Note:
The following steps introduce the camera switch in the layout option. The Main View interface of C-WERK Client, use the same instructions to switch the window.

Step 1: Open the C-WERK Client Software.

Step 2: Go to Live view layout interface to display all channels and link the video output to the playing window.

Step 3: Go to layout interface, and double-click the camera from the device list or drag it to the window to start playing the decoded video.

Step 4: In the keyboard control mode, press the numeric + Enter buttons to switch to a corresponding camera.

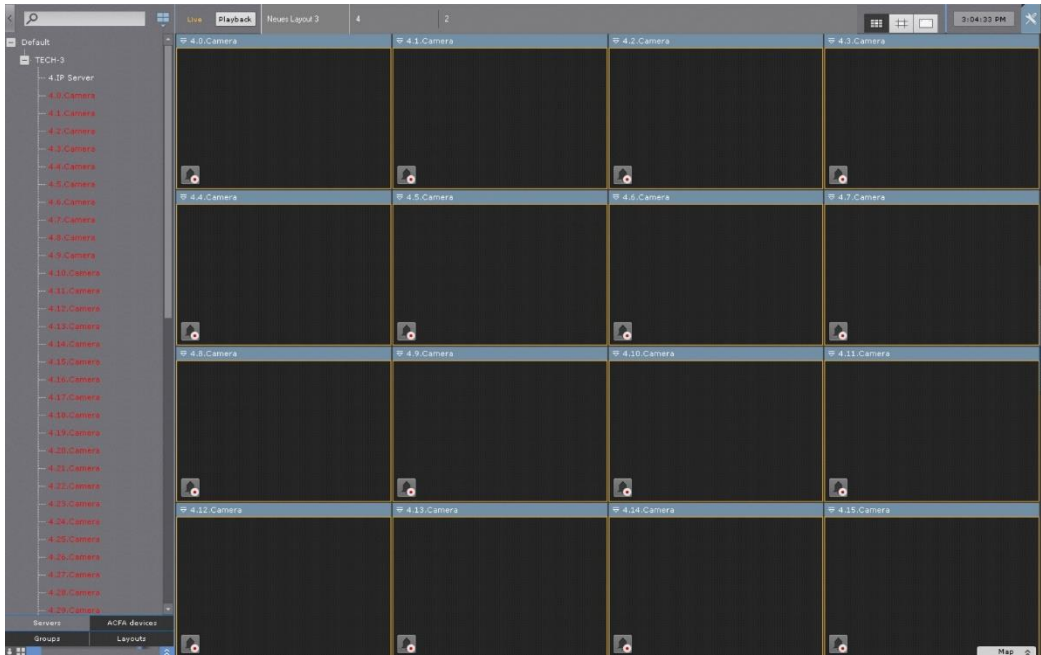*Example*: You can input numeric 3 + Enter button to switch to camera 3.

Figure 3-3 live view mode

Note:

● The input numeric can be a 4-digit number at most;

3.4 PTZ control via USB joystick

When the camera you have choosen supports PTZ-option, the control panel for PTZ will open automatically.

Figure 3-4 PTZ-control panel