

EP4CQ-HDM

4-Channel Full-HD Quad Video Processor

User's Manual



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Release Date: July 2025

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1. INTRODUCTION

EverFocus EP4CQ-HDM can support up to 4 analogy FHD cameras, allowing users to use different display modes: quad split, full screen, POP (Picture on Picture), and auto sequence for monitoring based on their preference.

The VGA/HDMI output resolution support 1920x1080 1440x900 1366x768 1280x720 1280x1024 1024x768.

The CVBS output resolution support 720x480 at 60Hz for NTSC video format, and 720x576 at 50Hz for PAL video format systems.

2. MAIN FEATURES

- H.264 video compression
- High resolution 1920x1080
- AHD 1080P / AHD 720P / 960H / CVBS multiple video format mixed input
- PAL/NTSC video format automatic adaptation mixed input
- Real-time quad display (60 or 50 frames / sec), monitoring up to 4 images on the screen
- Option to watch a full screen or quadrant picture
- The video output can be set Top / Bottom / Left and Right deflate
- Build-in time and title generator
- Auto sequential switching function and adjustable dwelling time
- On screen video loss detection
- The brightness, contrast, saturation, hue and sharpness of each channel can be adjusted independently
- Independent H / V mirror adjustment of each channel
- User-friendly front panel design
- Multi-language for optional: English (default), Chinese

2.1 Packing List

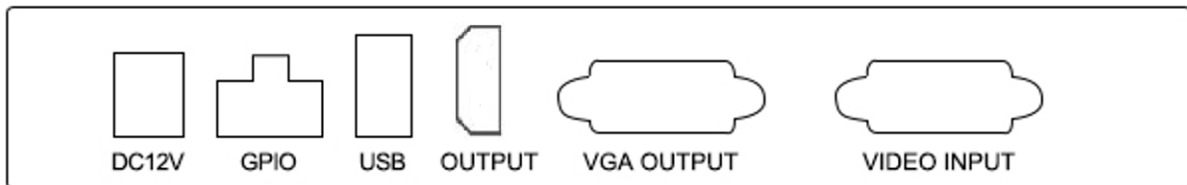
• EP4CQ-HDM x 1	• Remote Controller x 1
• DB-9 to BNC Cable x 1	• Power Adaptor x 1
• GPIO to BNC Cable x 1	• User Manual x 1

3. SPECIFICATION

Item	Specification
Video Output	1 VGA + 1 CVBS (RCA) + 1 HDMI Video Output
Video Input	4 CH (AHD 1080P/ AHD 720P/ 960H/ CVBS)
Display	VGA/HDMI: 1024x768 ~ 1920x1080 CVBS NTSC: 720x480 (60Hz)
Timer	Built-in real-time clock
Auto Sequence	Yes (dwelling time 0-99Sec is adjustable)
Setup	OSD (On Screen Display) Setup
Remote Control	Yes
Power Supply	DC12V /24V (8-36V wide voltage power supply)
Power Consumption	<5W
Temperature	0°C ~ 50°C / 32°F ~ 122°F
Humidity	20% ~ 80%
Dimensions	130 x 100 x 28mm/5.12" x 3.94" x 1.10"
Weight	<400g

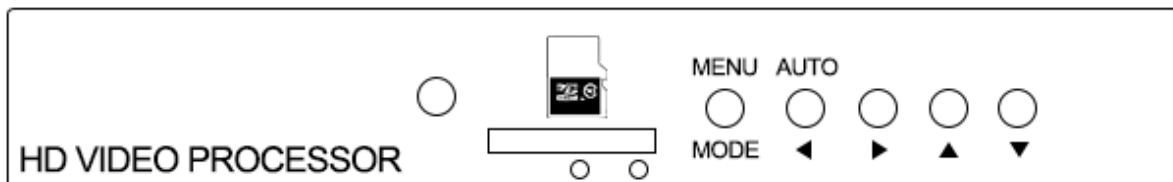
4. INTERFACE / CONNECTION

4.1 Rear Panel



No	Connector	Description
1	DC 12V	Connects to the DC 12 V / 1A power using a power adapter. (8-36V wide voltage power supply)
2	GPIO	Connects to 1 monitor using a RCA cable
3	USB	Upgrade firmware or backup video files
4	OUTPUT	Connects to 1 monitor using a HDMI cable
5	VGA OUTPUT	Connects to 1 monitor using a VGA cable
6	VIDEO INPUT	Connects to 4 cameras using the coaxial cables

4.2 Front Panel



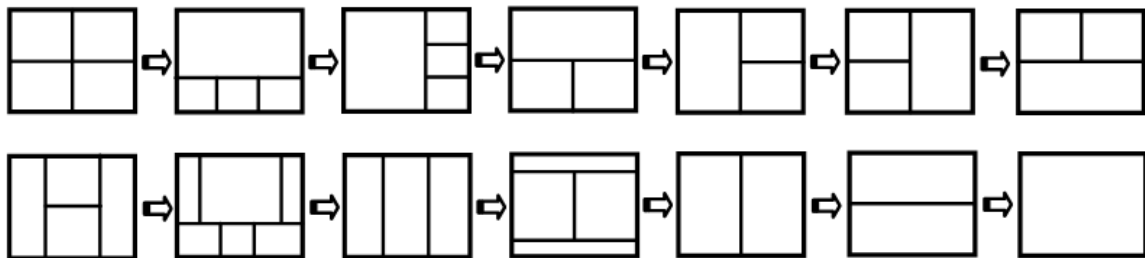
No	Keys	Function Description
1	Reserved	Reserved for micro-SD card
2	Menu	Long-press to enter / exit the OSD menu; Short-press to enter the setup menu.
3	Auto	Long-press to enter / exit the auto sequence mode.
4	Mode	Short-press to switch display mode.
5	◀	In live view, press to display channel 3 in full screen / In OSD, it is used as the Left arrow key.
6	▶	In live view, press to display channel 4 in full screen / In OSD, it is used as the Right arrow key.
7	▲	In live view, press to display channel 1 in full screen / In OSD, it is used as the Up arrow key.
8	▼	In live view, press to display channel 2 in full screen / In OSD, it is used as the Down arrow key.

4.3 IR Remote Control

No	Remote Panel	Function Description
1		POWER: Open/close the output display
2		MODE: Switch display mode
3		RETURN: Exit the OSD menu or return to quad view
4		OK: Enter the OSD menu or confirm
5		AV1: Channel 1 display in full screen
6		AV2: Channel 2 display in full screen
7		AV3: Channel 3 display in full screen
8		AV4: Channel 4 display in full screen

4.4 Front Panel Operation

Press the MODE key to switch display modes, you can select the display mode in the menu according to your needs, and the MODE button that is not selected will not be displayed.



- Compression Format: H.264
- Viewing Resolution: 1920x1080

5. MENU

Main menu: Press the remote control "OK" button to open menu. (Please aim the remote control towards the machine's receiver when operating).

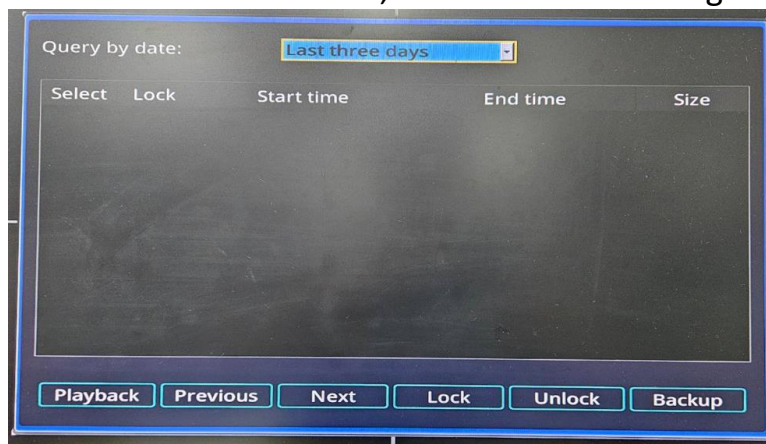
The "OK" button on the remote control functions as the "confirm" key.



Use the arrow keys on the remote control or the directional keys on the EP4CQ-HDM to perform the current operation. After completion, choose "Confirm" to save and exit. Exiting directly without confirming will not apply the changes.

5.1 Playback

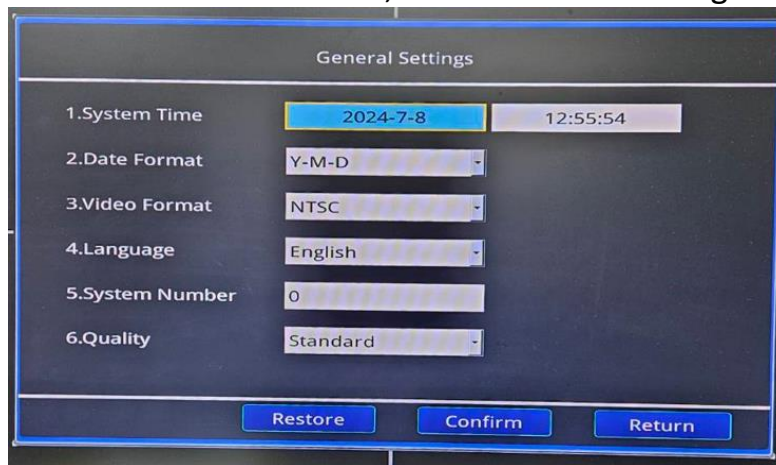
Select the "Playback" icon and press the "OK" button on the remote control to enter the selection interface, as shown below image:



- 1). Query by date
 - Last three days
 - Last week
 - Last two weeks
 - Last month
 - All
- 2). Playback: Play back the selected video recording online, supporting pause, x2, x4, x8 forward playback, and -x2, -x4, -x8 rewind playback.
- 3). Previous Page: Switch to display the previous page of video files.
- 4). Next Page: Switch to display the next page of video files.
- 5). Lock: Protect the selected video files from automatic deletion or overwriting by locking.
- 6). Unlock: Unlock the selected locked video files.
- 7). Backup: Copy the selected video files to an external USB drive for storage, which can be plugged into a computer for direct playback.

5.2 General

Select the "General" icon and press the "OK" button on the remote control to enter the selection interface, as shown below image:



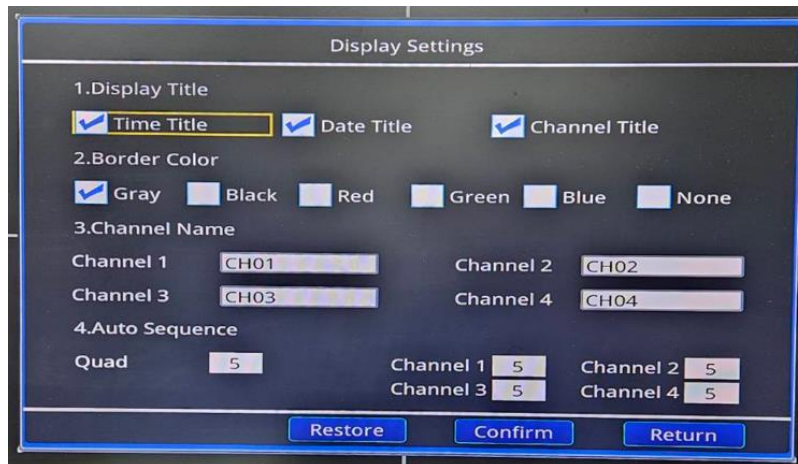
- 1). System Time: Modify the system time and date displayed on the screen overlay.
- 2). Date Format: Switch the display format of the system date (year/month/day).
- 3). Video Standard: Select PAL or NTSC video output format.
- 4). System Language: Choose Chinese or English menus (supports customization for other country languages).
- 5). System ID: RS485/TTL control code ID (up to 255).
- 6). Recording Quality (Four levels): Common, Standard, High Definition, Ultra High Definition.

Recording Video	File Storage	8G	32G	64G	128G	256G	512G
Quality	10 minutes	Hour	Hour	Hour	Hour	Hour	Hour
Common	110M	12H	48H	96H	192H	384H	768H
Standard	220M	6H	24H	48H	96H	192H	384H
High Definition	330M	4H	16H	32H	64H	128H	256H
Ultra High Definition	440M	3H	12H	24H	48H	96H	192H

Note: When a new memory card is inserted, it must be formatted in the menu. when the machine is working, hot-plug TF card ins not allowed.

5.3 Display

Select the "Display" icon and press the "OK" button on the remote control to enter the selection interface, as shown below image:

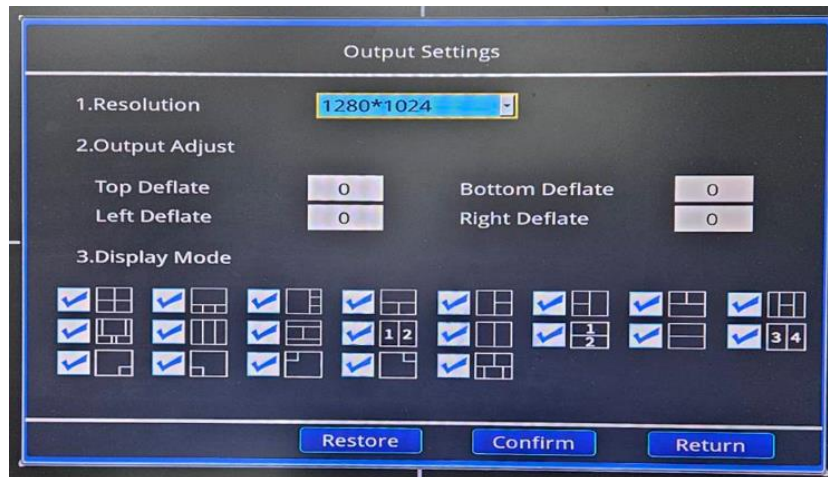


- 1). Display Title - Toggle the overlay display of time, date, and channel on the screen.
- 2). Border Color - Select the color of the dividing line frame between adjacent screens. "None" can disable.
- 3). Channel Name - Overlay characters displayed on the screen, supporting numbers or English.
- 4). Auto Cruise - Adjust from 0-99 seconds. When set to 0, the cruise function does not display.

(Press the AUTO button on the EP4CQ-HDM to automatically switch the display time)

5.4 Output

Select the "Output" icon and press the "OK" button on the remote control to enter the selection interface, as shown below image:



- 1). Resolution: Adjust the video output resolution, supporting outputs of 1024x768, 1280x1024, 1280x720, 1366x768, 1440x900, 1920x1080.
- 2). Output Adjustment: Compress the display screen inward, with each value moving 1 pixel, adjustable up to 99.
- 3). Mode Selection: Enable or disable the display mode switch using the MODE button on the remote control and the EP4CQ-HDM front panel.

5.5 Video

Select the "Video" icon and press the "OK" button on the remote control to enter the selection interface, as shown below image:



- 1). Brightness: Supports brightness adjustment from 0 to 99.
- 2). Contrast: Supports contrast adjustment from 0 to 99.
- 3). Saturation: Supports saturation adjustment from 0 to 99.
- 4). Hue: Supports hue adjustment from 0 to 99.
- 5). Sharpness: Supports sharpness adjustment from 0 to 99.
- 6). H Mirror: When checked, the screen displays a 180° left-right display.
- 7). V Mirror: When checked, the screen displays a 180° up-down display.

5.6 System

Select the "System" icon and press the "OK" button on the remote control to enter the selection interface, as shown below image:



1). Storage Management

Format: Format the storage card

2). System Management

Upgrade: Optimize machine performance by upgrading via an external USB drive.

Factory Reset: Restore the entire menu to factory settings.

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