

Multi-screen Splicing Processor 4-12

Product Specifications



Model: RDMP1000-H04-H12

I. Product Overview

The External Video Wall Processor 4-12 is an ultra-high-value video wall processor featuring an integrated pure hardware design. It supports 4K@60 HDMI input, audio input/output, and 8K camera decoding. Additionally, it offers traditional video wall system functions such as signal switching, real-time display, multi-screen roaming, and scaling. This processor is widely applicable in small to medium-sized control rooms or surveillance industries.

II. Key Features

1. Pure hardware integrated design ensures stable 7×24 operation, resistant to hacker intrusion and virus attacks.
2. Features 4 HDMI 2.0 (4K@60) inputs with per-channel audio support and 3.5mm headphone jack audio input, enabling point-to-point display across up to 12 screens.
3. Supports up to 12 HDMI 1.4 outputs, with audio output via HDMI channel-embedded audio and 3.5mm headphone jack.
4. Maximum decoding resolution of 3300W. Capable of decoding up to 1 channel of 8K@60fps, 4 channels of 4K@60fps, or 32 channels of 1080@30fps. Supports H.265 and H.264 decoding. (Optional)

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5. Supports decoding streams from major brands including Hikvision, Dahua, and Uniview. (Optional)
6. Supports windowing, overlay roaming, window pinning/unpinning, and window signal cycling.
7. Supports full-wall preview, enabling users to directly preview current windowed signals on the control terminal (PC or tablet) for real-time monitoring of signal integrity, achieving visual management of input channels.
8. Supports multi-window display with flexible layouts for at least 16 windows.
9. Supports scrolling subtitle display with flexible editing of content, font size, color, and scroll speed.
10. Supports one-click scene saving and recall, storing up to 1024 scenes. Window displays and layouts for 4K HDMI capture and network input signals can be saved as scenes with a single click and recalled instantly as needed for convenience.
11. Supports scene polling and preset configuration. Multiple scenes can be cycled in a defined sequence and time interval, saved as presets. Select a preset to set as an auto-start or scheduled preset, executing upon power-up or at a predetermined time.
12. Supports integrated environmental control functions, enabling management of lighting, curtains, video walls, audio matrices, etc.

13. Supports high-definition point-to-point background image display.
14. Supports both local and remote firmware upgrades.
15. Possesses a Compulsory Product Certification (3C Certificate) from the Chinese government.
16. Includes a product testing report.
17. Holds a software copyright certificate.

III. Technical Specifications

Category	Item	Specifications
Hardware Configuration	CPU	Octa-core 64-bit architecture, 8nm LP process, frequency 2.4GHz
	GPU	Mali-G610 MC4, supports AFBC (Arm Frame Buffer Compression), 8K codec
	NPU	AI accelerator, computing power 6 TOPS

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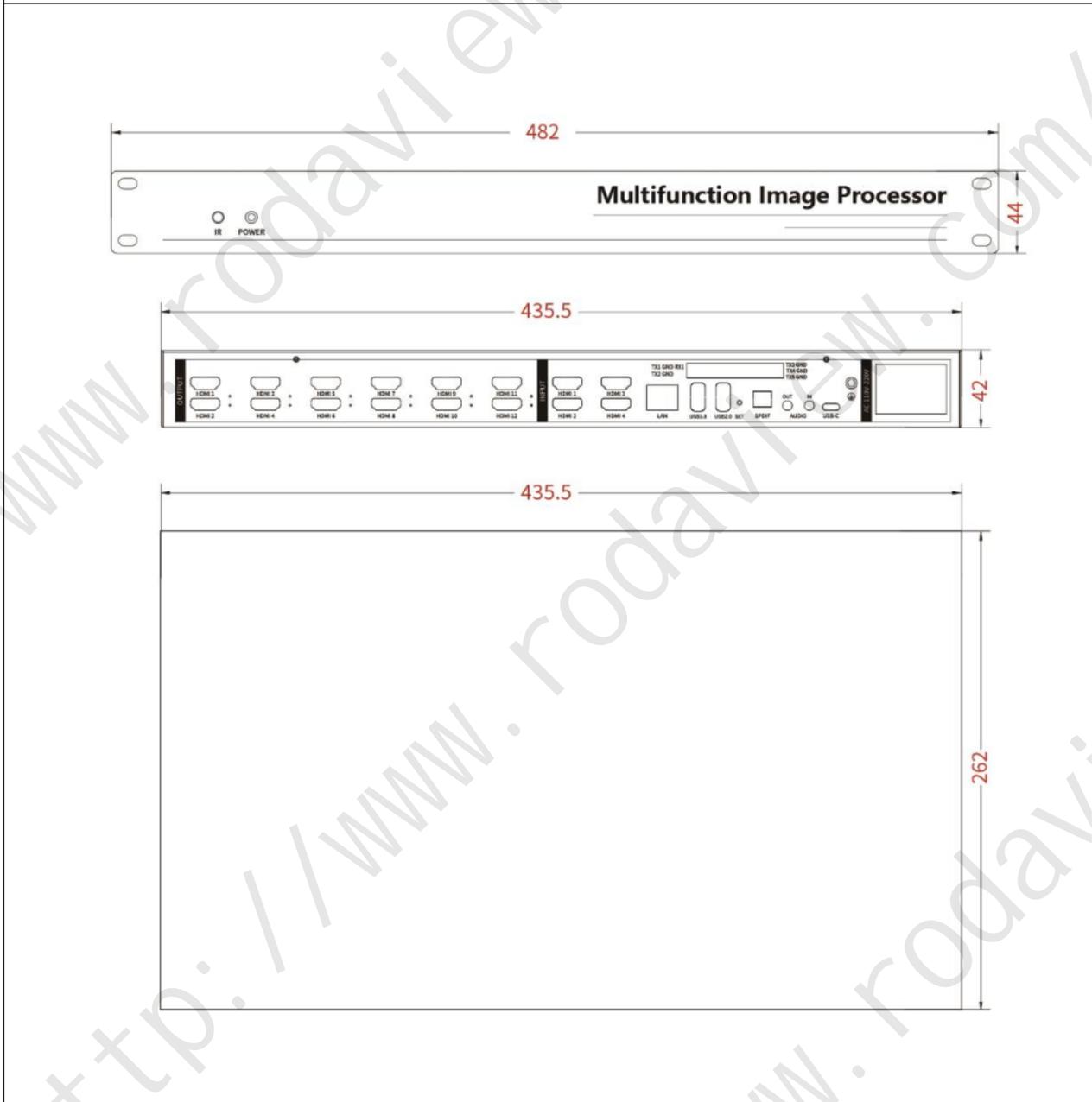
	RAM	Default 4GB, supports up to 32GB LPDDR4x (64-bit)
	Storage	Default 64GB, supports eMMC 5.1
	Power Supply	AC 100~240V
Interface Parameters	HDMI-OUT	1-12 outputs, max. resolution 1920x1080@60Hz
	HDMI-IN	HDMI 1-4 input, supports up to 4K@60Hz
	LAN	1000M Ethernet port
	RS232	Control serial port (Supports controlling this device and external equipment)
	USB 3.0 / USB 2.0	Supports connecting USB drives/keyboards/mice
	SET	Function port selection
	SPDIF	S/PDIF audio signal interface
	AUDIO-OUT	3.5mm audio output port (1 channel)
	AUDIO-IN	3.5mm audio input port (1 channel)
	USB-C	For device firmware burning/upgrade only
Environmental Parameters	Operating Temperature	0°C ~ 50°C

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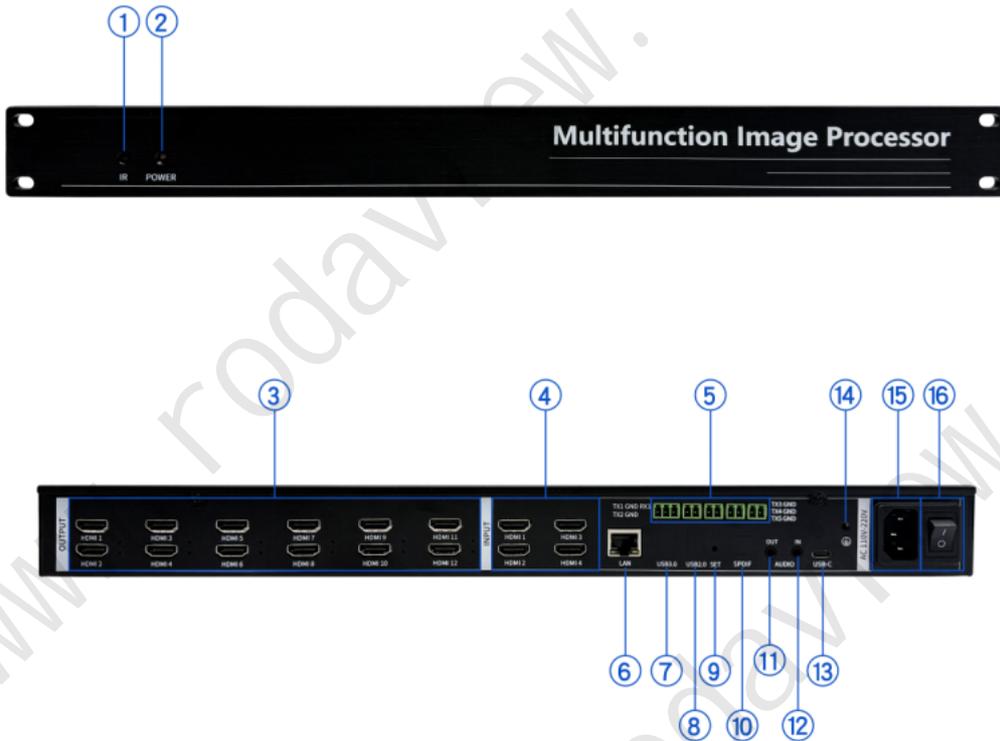
	Operating Humidity	10% ~ 75% RH (non-condensing)
	Storage Temperature	-25°C ~ +125°C
Physical Specifications	Net Weight	3.2kg
	Gross Weight	4.2kg(with packaging)
	Chassis Dimensions	482 × 262 × 44 mm
Packaging Specifications	Package Dimensions	550 × 380 × 130 mm
	Package List	1 × Main Unit, 1 × Power Adapter, 1 × Certificate of Conformity,

IV. Product Dimensions

1U chassis (supports up to 4 inputs and 12 outputs)



V. Panel Buttons and Ports



No.	Interface	Description
1	IR	Infrared, receives infrared signals
2	POWER	Power indicator, green light on indicates normal operation
3	HDMI-OUT	HDMI 1-12: HDMI output interface, outputs video signals to HDMI or DVI display devices. Max. supported output resolution: 1920x1080@60Hz
4	HDMI-IN	HDMI 1-4: HDMI input interface, accepts local video output signals. Max. supported input resolution: 3840x2160@60Hz

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5	RS232	Control serial port input/output interface, controls this device or external equipment
6	LAN	Connects to Ethernet network to maintain connectivity with devices. Enables receiving IPC streams, accepting web management from client computers, and controlling third-party devices.
7	USB 3.0	Connect USB drives, mouse/keyboard (Optional)
8	USB 2.0	Connect USB drives, mouse/keyboard (Optional)
9	SET	Press and hold for more than 5 seconds to reset device IP address to 192.168.1.1
10	SPDIF	Supports S/PDIF coaxial audio signal (Optional)
11	AUDIO-OUT	Supports one 3.5mm audio output channel
12	AUDIO-IN	Supports one 3.5mm audio input channel
13	USB-C	For firmware burning and software upgrade
14	Protective Grounding	Prevents electric shock accidents caused by live casing during electrical equipment leakage
15	AC110V-220V	AC 110V-220V power input
16	ON/OFF	Power ON/OFF switch button

VI. Connection Diagram



VII. Cloud Management System Framework

