# 8K Media Player Splicing Processor

# Product Specifications



Model: RDMP-SW0404-1

# I. Product Overview

This professional 8K Media Player Splicing Processor, specifically designed for LCD video walls, enables arbitrary point-to-point and combination splicing of display panels. It integrates multimedia playback control, information publishing, cluster management functions, and an application platform, delivering powerful interactive and playback capabilities.

It supports multi-platform terminal control via Windows, Mac OS, iOS, and Android, enabling flexible multi-screen window roaming displays. Compatible with infrared remote controls, mice, tablets, smartphones, and computers, this product is widely applicable in commercial display scenarios across government and enterprise sectors, conference room/hotel design, healthcare, education, new retail, exhibitions, and more.

## II. Key Features

✦ Embedded pure hardware architecture ensures plug-and-play operation with 24/7 stable performance.

✦ Supports video wall integration with LCD panels, TVs, monitors, and other display devices.

✦ Enables point-to-point display of images and videos across up to 12 screens.

✦ Supports real-time rotation of images, videos, and other media signals at 0°, 90°, 180°, and 270°.

✦ Facilitates dynamic roaming of images, videos, HDMI captures, and network signals, enabling layered overlay across varying sizes, positions, and levels.

✦ Features 64GB local storage capacity for images and videos, eliminating the need for

additional servers. Supports storage expansion via TF cards, USB drives, and mSATA.

✦ Supports 4K HDMI capture from external 4K HDMI sources like screen casters,

media players, and laptops, with simultaneous audio/video transmission.

✦ Supports TCP/IP access to streaming media signals compliant with RTSP/ONVIF, RTMP, and live broadcast protocols.Enables playback

of network media streams, decoding of webcams, and rapid integration of live links. Facilitates network-based access, sharing, and display of diverse graphic/text data and multi-format streaming media signals.

✦ Supports saving various signal window displays and layouts as scenes, enabling one-click recall as needed.

✦ Supports cycling through multiple scenes in a predefined sequence and time interval, saving them as presets. Can also be configured as power-on presets or scheduled presets to execute upon startup or at designated times.

✦ Supports configuring one or more displayed signal windows for signal cycling, enabling the window at that position to cycle through selected signals at set intervals while other windows maintain their corresponding signals unchanged.

✦ Supports fast, seamless switching between signals and scenes with smooth transitions and no background image loss.

✦ Enables control over currently playing video windows (e.g., mute, pause); also allows

selection of video polling playback windows for next/previous track playback.

✦ Supports central control integration, enabling management of lighting, curtains,video walls, audio matrices, etc., customizable based on project site conditions and client requirements.

✦ Supports multiple control methods: operation via PC, tablet, smartphone, remote control,or physical buttons; also supports operation via USB keyboard/mouse connected to the device.

✦ Supports signal feedback, allowing users to monitor current window signals directly on the control terminal (computer or tablet) for real-time verification of signal integrity.

✦ Enables centralized cloud-based management of multiple devices, including remote media uploads, content publishing,and mode switching.

# 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 |
| | RAM | Default 4GB, supports up to 32GB LPDDR4x (64-bit) |
| | Storage | Default 64GB, supports eMMC 5.1 |

| | Power | DC 12V input |
|---|---|---|
| **Interface Parameters** | HDMI-OUT | 1-12 outputs, max. resolution 1920×1080@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/disks |
| | 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 |
| | WiFi | External WiFi module (Optional) |
| | mSATA | Expanded storage capacity (Optional, supports mSATA drive) |
| **Environmental Parameters** | Operating Temperature | 0℃ ~ 50℃ |

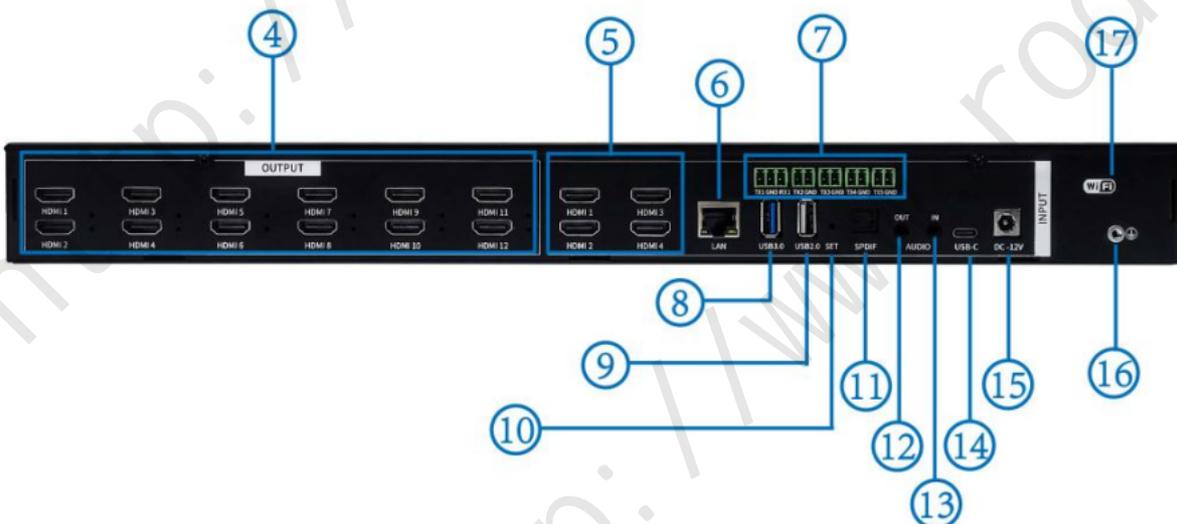| | | |
|---|---|---|
| | Operating Humidity | 10% ~ 75% RH (non-condensing) |
| | Storage Temperature | -25℃ ~ +125℃ |
| **Physical Specifications** | Net Weight | 3.2kg |
| | Gross Weight (with packaging) | 4.0kg |
| | Chassis Dimensions | 482 × 262 × 44 mm |
| **Packaging Specifications** | Package Dimensions | 550 × 380 × 130 mm |
| | Package List | 1 × Main Unit, 1 × Power Adapter, 1 × Certificate of Conformity, 1 × IR Remote Controller, 5 × Phoenix Terminal Plugs |

# IV. Product Dimensions

1U chassis (supports up to 12 outputs)
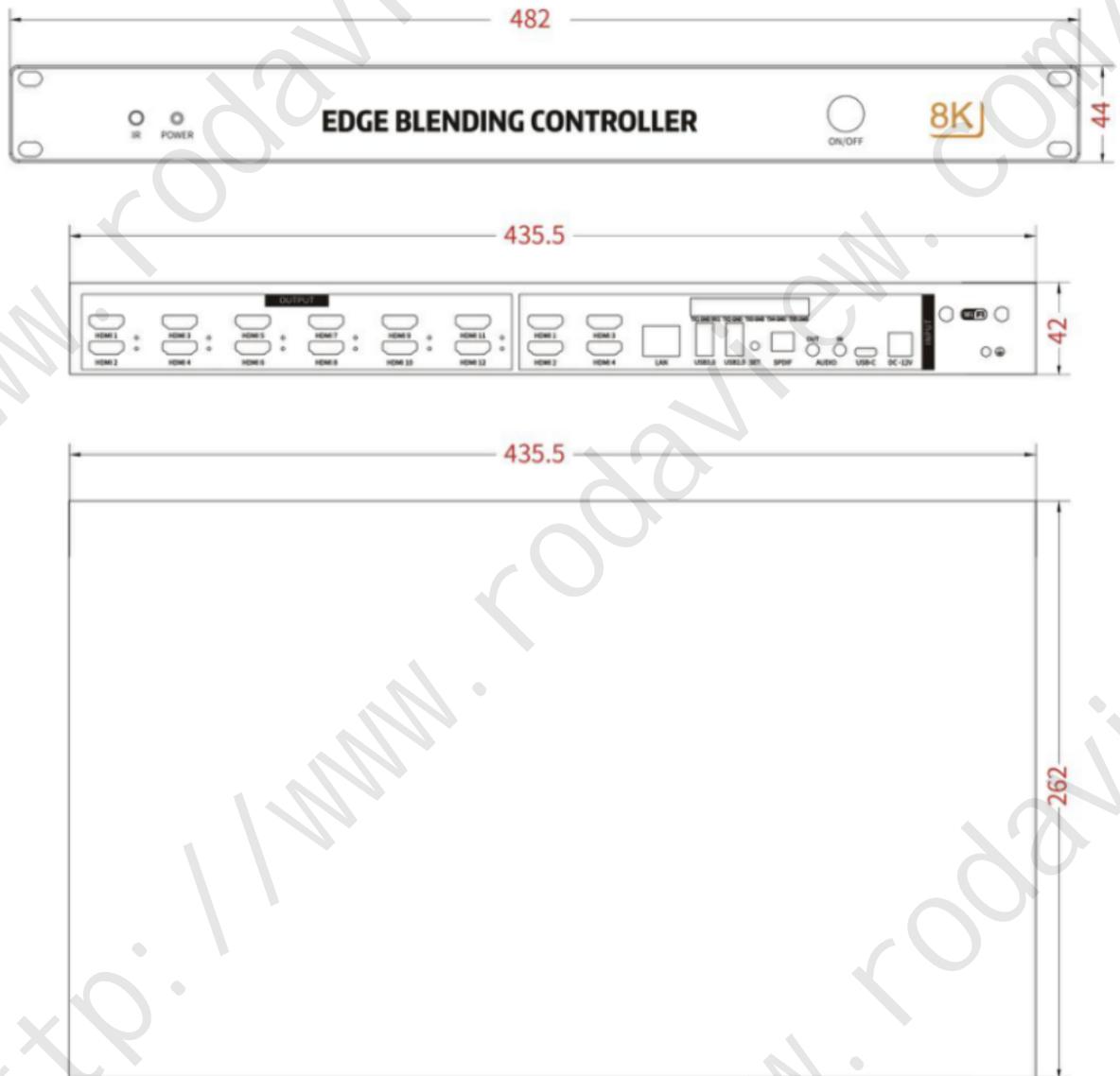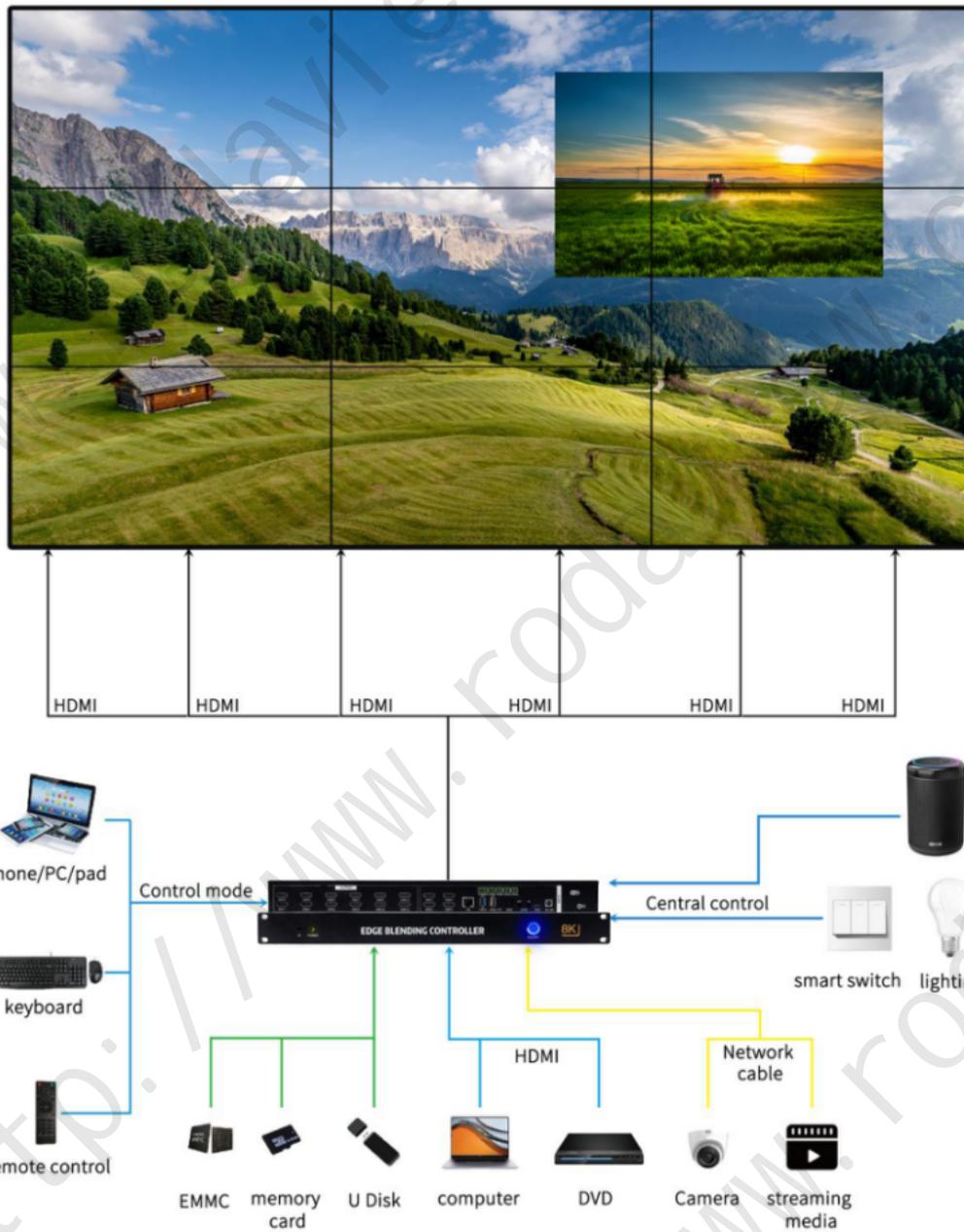
# V. Panel Buttons and Port Descriptions
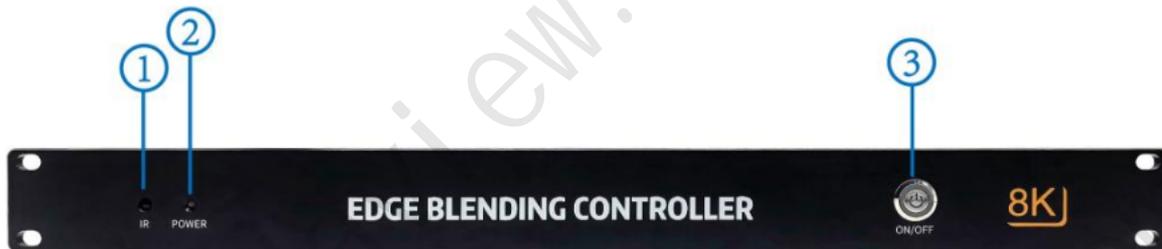


| No. | Interface | Description |
|-----|-----------|-------------|
| 1 | IR | Infrared (IR), receives infrared signals |
| 2 | POWER | Power indicator, green light on indicates normal operation |
| 3 | ON/OFF | Power ON/OFF switch button |

| 4 | HDMI-OUT | 1-12 outputs: max. resolution 1920x1080@60Hz |
|---|---|---|
| 5 | HDMI-IN | HDMI 1-4 input: max. resolution 4K@60Hz |
| 6 | LAN | 1000M Ethernet port for network connection |
| 7 | RS232 | Control serial port input/output interface, controls this device or external equipment |
| 8 | USB 3.0 | Connect USB drives, mouse, keyboard |
| 9 | USB 2.0 | Connect USB drives, mouse, keyboard |
| 10 | SET | Function port selection |
| 11 | SPDIF | Supports S/PDIF audio signal |
| 12 | AUDIO-OUT | Supports one 3.5mm audio output channel |
| 13 | AUDIO-IN | Supports one 3.5mm audio input channel |
| 14 | USB-C | Device firmware burning/upgrade |
| 15 | DC-12V | DC-12V power input |
| 16 | WiFi | For connecting to external WiFi (Optional) |
| 17 | MSATA | Connect mSATA drive to expand storage capacity (Optional) |

# VI. Connection Diagram

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Terminal 1      Terminal 2      Terminal 3      Terminal 4

router      switch

Local Area Network (Intranet)      4G/Wide Area Network (External Network)

Local Area Network      Cloud services

Multi terminal management

computer      pad