4K Media Player Splicing Processor

Product Specifications

Model：RDMP-SW6800-05U

I. Product Overview

This professional image splicing hardware, 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 robust interactive and playback capabilities.

Supports multi-platform terminal control via Windows, Mac OS, iOS, and Android, enabling arbitrary multi-screen window roaming display.The product supports control via infrared remote, mouse, tablet, smartphone, and computer, making it 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 Linux hardware architecture with plug-and-play functionality ensures exceptional system stability, reliably meeting 24/7 operational demands.

✦ Exceptional system performance. Utilizes a mid-to-high-end general-purpose SOC, fully leveraging its powerful CPU, GPU, VPU, RGA hardware resources, and core engines to support point-to-point display of images and videos across up to 9 screens.

✦ Built-in display wall functionality supports seamless integration with LCD video walls, LCD TVs, monitors, and other display devices for simple, convenient setup.

✦ Built-in large storage capacity. Images and videos are stored locally, eliminating the need for additional servers. Supports storage expansion via TF cards and USB drives.

✦ 4K HDMI capture. Supports external 4K HD HDMI video sources such as screen casters and laptops, with simultaneous audio and video transmission.

✦ Robust network connectivity. Supports TCP/IP access to RTSP/ONVIF, RTMP, and live streaming media signals. Connects to the internet to leverage online resources, enabling the access, sharing, and display of diverse graphic data and multi-format network media streams.

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

✦ Flexible window layout: Images, videos, HDMI captures, and network signals can freely roam across the screen, enabling overlay in

different sizes, positions, and layers.

✦ Scene saving and recall: Window displays and layouts for various audio/video files, images, 4K HDMI captures, and network signals can be saved as scenes with a single click. These scenes can be recalled instantly as needed for quick and convenient operation.

✦ Scene Polling and Preset Configuration. Multiple scenes can be saved as presets to cycle through in a specified sequence and time interval. Select a preset to set as an auto-start or scheduled preset, executing upon power-up or at predetermined times.

✦ Signal Cycling. Enables one or more displayed signal windows to cycle through selected signals at set intervals, while other windows maintain their original signals.

✦ Supports rapid, seamless switching between signals and scenes with smooth transitions and no blank screens.

✦ Playback Control. Select currently playing video windows for controls like mute or pause; or select windows in video rotation playback for next/previous track selection.

✦ Centralized Control. Integrates environmental control functions to manage lighting, curtains, projectors, video walls, audio matrices, etc., customizable based on project site conditions and client requirements.

✦ Multiple Control Methods.The video wall processor can be operated via PC, tablet, smartphone, remote control, or button panel.

Alternatively, users can connect a USB keyboard and mouse for operation, offering flexible choices based on needs.

✦ Supports centralized management of multiple devices and bulk uploads of media assets like images and videos, ensuring simplicity and efficiency.

✦ Enables cloud-based management for remote device control, including media uploads, content publishing, and mode switching.

III. Technical Specifications

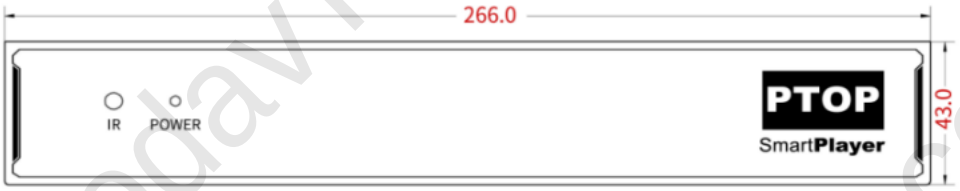
Category	Item	Specifications
Hardware Configuration	CPU	Quad-core CPU architecture, frequency up to 2.0GHz
	GPU	Dual-core GPU, supports OpenGL ES 1.1/2.0/3.0/3.1, OpenCL, supports AFBC (Arm Frame Buffer Compression)
	VPU	High-performance VPU, 1080P 100FPS H.264/H.265 video encoding, 4K 60FPS H.265/H.264 video decoding
	RAM	4G

	Storage	64G (Expandable)
	Power	DC 12V
Interface Parameters	HDMI-OUT	1-4 outputs, max. resolution 1920x1080@60Hz
	HDMI-IN	HDMI 1.4 input, supports up to 4K@30Hz
	LAN	1000M Ethernet port
	RS232	Control serial port (Supports controlling this device and external equipment)
	USB 3.0	Supports connecting USB drives/keyboards
	SET	Function port selection
	AUDIO-OUT	3.5mm audio output port (1 channel)
	TF	Supports TF card for expanded storage capacity
Environmental Parameters	Operating Temperature	0℃ ~ 50℃
	Operating Humidity	10% ~ 75% RH (non-condensing)
	Storage Temperature	-25℃ ~ +125℃

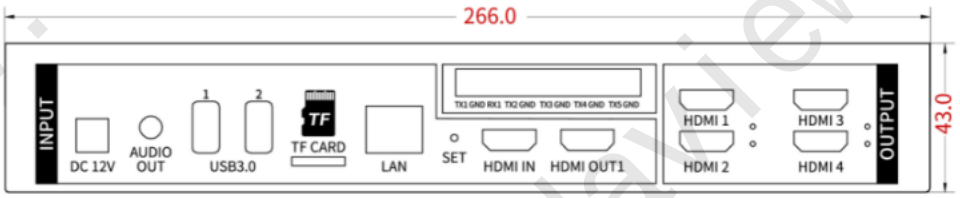
Physical Specifications	Net Weight	1.5kg
	Gross Weight	2.3kg (with packaging)
	Chassis Dimensions	266 × 200 × 43 mm
Packaging Specifications	Package Dimensions	430 × 266 × 95 mm
	Package List	1 × Power Adapter, 1 × Certificate of Conformity, 1 × IR Remote Controller, 2 × Mounting Ears, 5 × Phoenix Terminal Plugs, 10 × Mounting Screws

IV. Product Dimensions

0.5U chassis (supports up to 4 ports)



Front panel

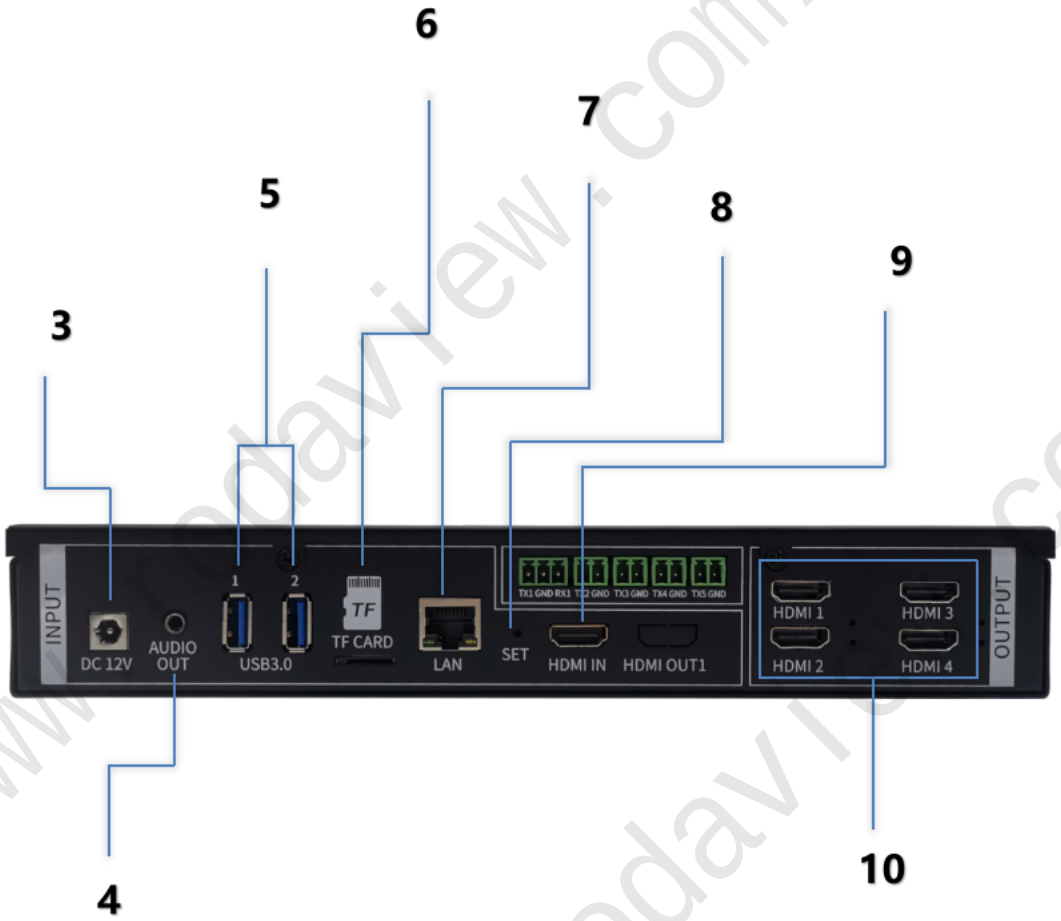


Rear panel

Top panel

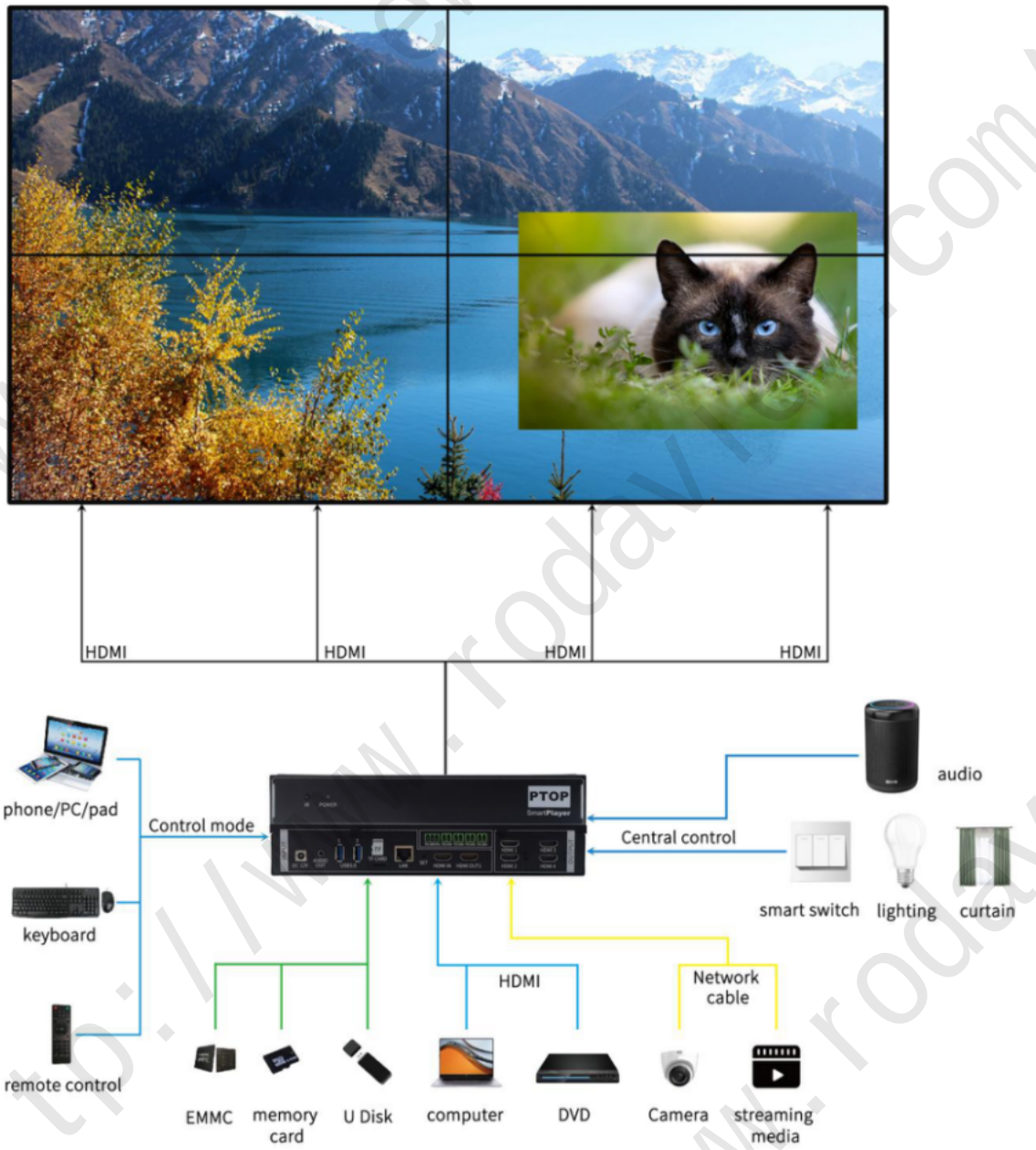
V. Panel Buttons and Ports

No.	Interface	Description
1	POWER	Power indicator, green light on indicates normal operation
2	IR	Infrared (IR), receives infrared signals

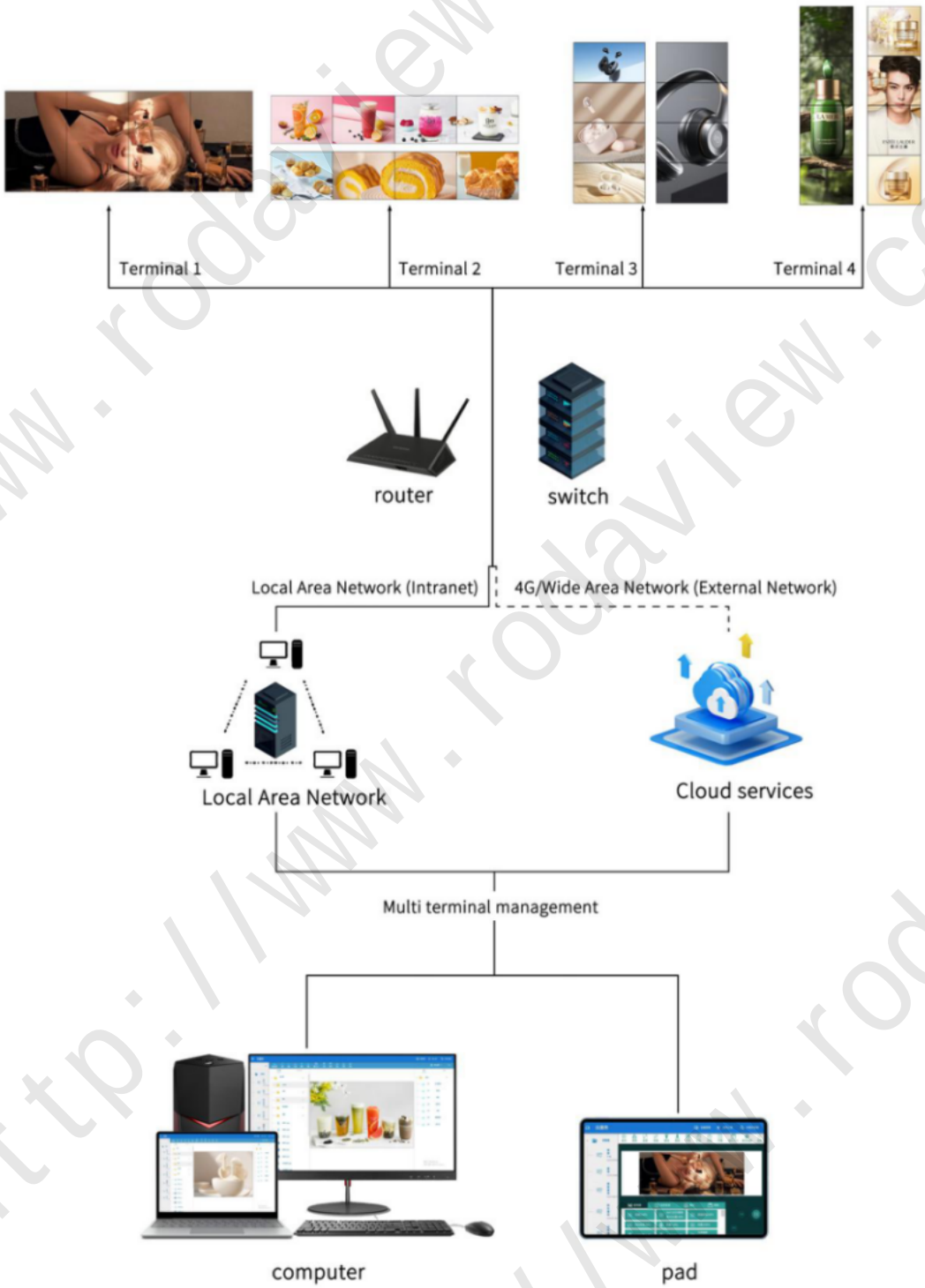


3	DC-12V	DC-12V power input
4	AUDIO-OUT	Supports one 3.5mm audio output channel
5	USB 3.0 / USB 2.0	Connect USB drives, mouse, keyboard
6	TF Card Slot	Supports TF card for expanded storage capacity
7	LAN	1000M Ethernet port for network connection
8	SET	Function port selection
9	HDMI IN	Supports input up to 4K@30Hz
10	HDMI OUT (1-4)	Supports output up to 1920×1080@60Hz

VI. Connection Diagram



VII. Cloud Management System Framework



VIII. Common Splicing Effects Showcase