

MC2K

Multimedia Server

Specification V4.1



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1 Update Record

Document version	Release time	Update history
V4.0	July 15, 2025	first release
V4.1	June 3, 2026	Updated

2 Product Introduction

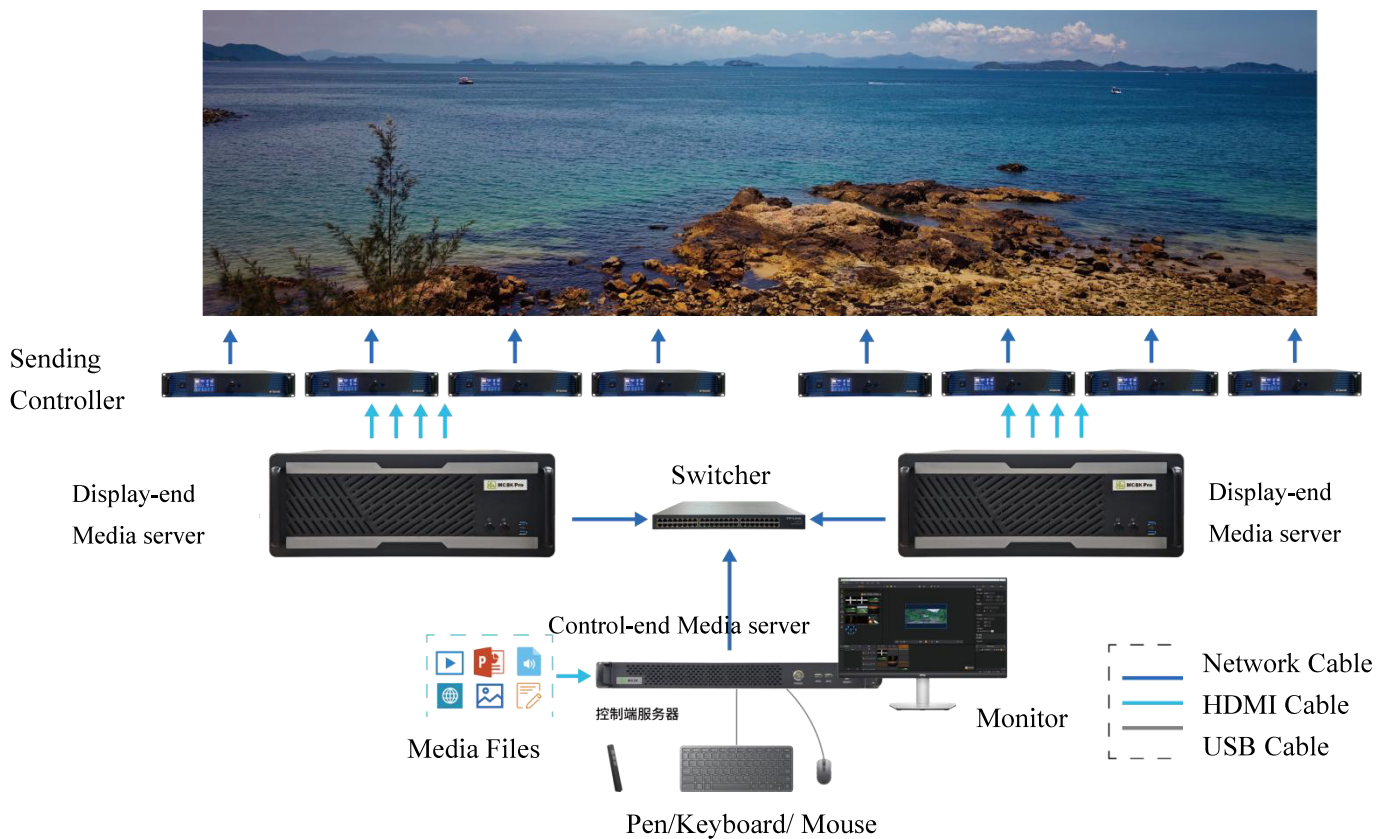
MC2K Multimedia Broadcasting Control Server adopts high-performance processors paired with professional-grade industrial motherboards for superior stability. Integrated with display-end servers and dedicated media playback control software, it supports batch management and independent playback control of multiple LED displays. A single unit can connect to and output video mapping to screens of various resolutions, while supporting multi-unit cascade synchronization for seamless large-scale screen point-to-point display. It also accommodates irregular-shaped splicing screen configurations.

3 Product Features

- Control-end servers paired with display-end servers achieve ultra-high resolution pixel-to-pixel output
- Supports batch management and independent playback control for different LED displays
- Enables arbitrary image segmentation/recombination, geometric deformation, and rotation to accomplish splicing displays of various shapes and angles
- Supports current mainstream video formats including but not limited to: Hap, HapQ, Hap Alpha, H.264 encoded MOV/AVI/MP4, etc.
- Supports playback in window mode and timeline mode, with no limit on the number of program scenes
- Supports loop playback, playback of the last frame, and program skipping
- Supports fade-in and fade-out transitions between programs
- Supports scheduled playback
- Supports PPT presentations and control via a presentation remote
- Supports differential and asynchronous display of signals including NDI, RTSP, capture cards, etc.
- Allows saving multiple slice projects with seamless switching via control systems

- Supports conversion of standard video to CAVE perspective effects
- Features auto-start configuration and unattended timed activation mode
- Automatically loads project files and initiates playback upon startup
- Supports master/slave server modes with compatibility for third-party control consoles
- Supports HDR video playback
- Supports network wake-up and automatic startup upon power-on
- Supports device status monitoring, including server CPU and memory usage, rendering frame rate, and more
- Supports a screen lock feature that allows you to lock the software interface at any time to prevent accidental user operations

4 Application Scenarios



5 Product Appearance

Front Panel

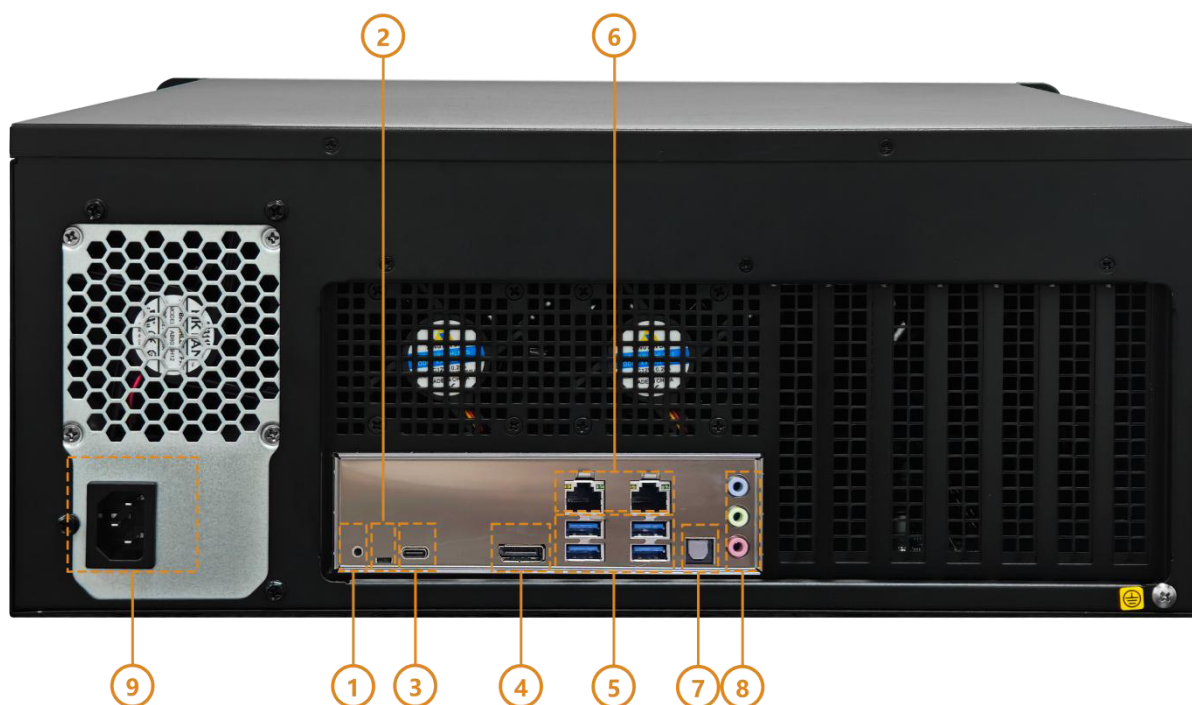


*Product images are for reference only. The actual product shall prevail upon purchase.

5.1 Interface Illustration

#	Name	Illustration
3	Power Restart	Restart the server device
1	Power switch	Switch server device
2	USB	2 × USB 3.0 interface

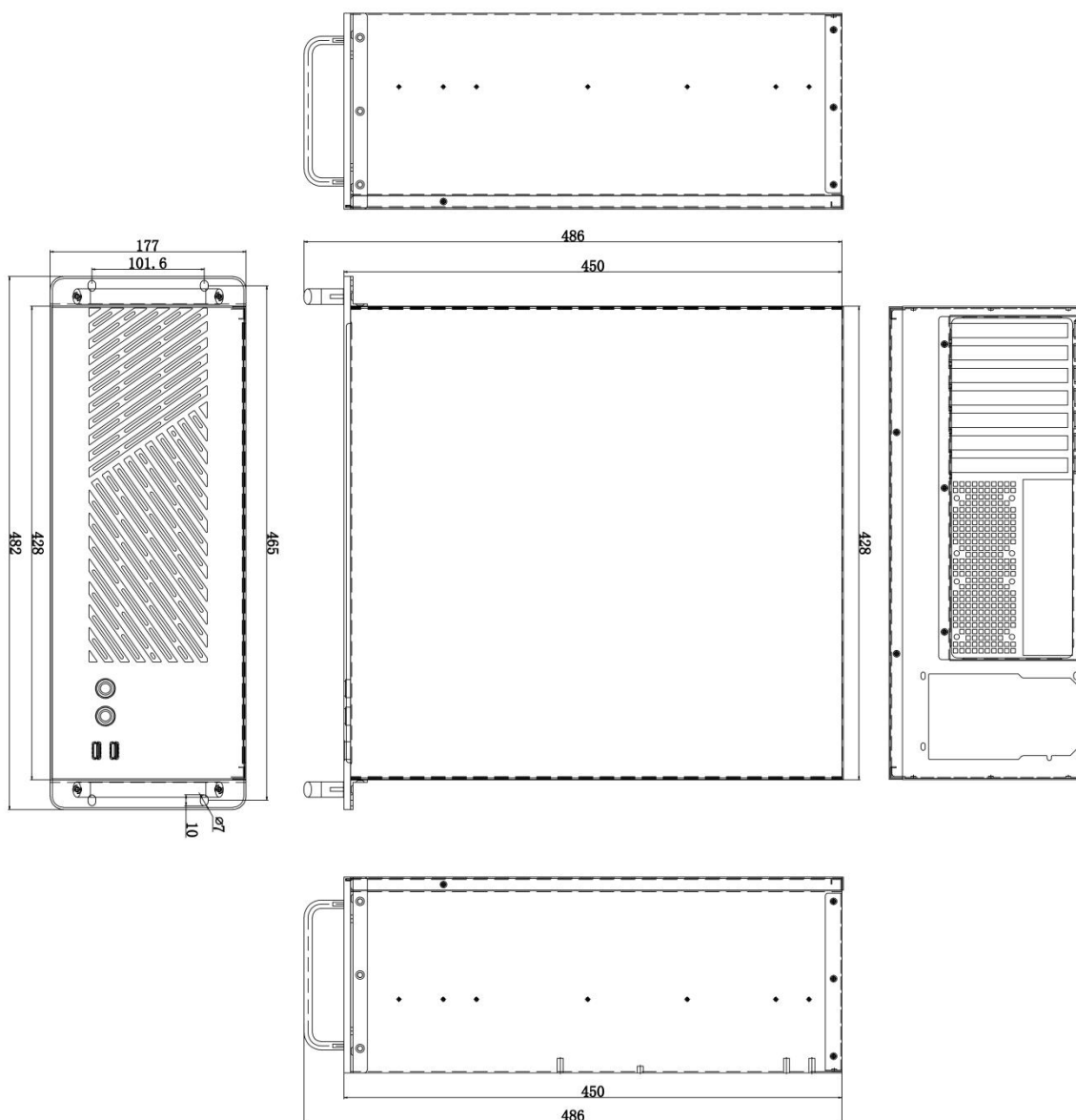
Rear Panel



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#	Name	Illustration
1	BIOS Restore	One-Click BIOS Restore
2	Power-Activated Self-Start Lever	Power-activated automatic toggle switch: push left to turn off, push right to turn on
3	Type-c	1×Type-C port, USB 3.0-C protocol interface
4	DP1.2	1×DP 1.2 output port, supporting a resolution of 3840×2160@60Hz
5	USB	4×USB 3.0 port
6	LAN	2×LAN port, supporting Wake-on-LAN
7	Audio Interface	Fiber-optic audio interface supporting 5.1 digital audio transmission
8	Audio Interface	Audio Input (blue), Audio Output (green), Microphone Input (pink)
9	Power Supply	AC 100-240V power input connector

5.2 Product Dimensions



Tolerance: ± 0.3 Unit: mm

6 Product Parameters

6.1 Basic Parameters

Product name	Multimedia server (Control end)
Product model	MC2K
Hardware output	DP1.2×1 (connect to the monitor)
CPU	Intel 20-core, 28-thread
Memory	16GB DDR5
Hard Drive Capacity	1TB M.2 high-speed solid-state drive
Power Supply	300W
Chassis	4U industrial control server chassis
Broadcast Control Software	M2 broadcast control software

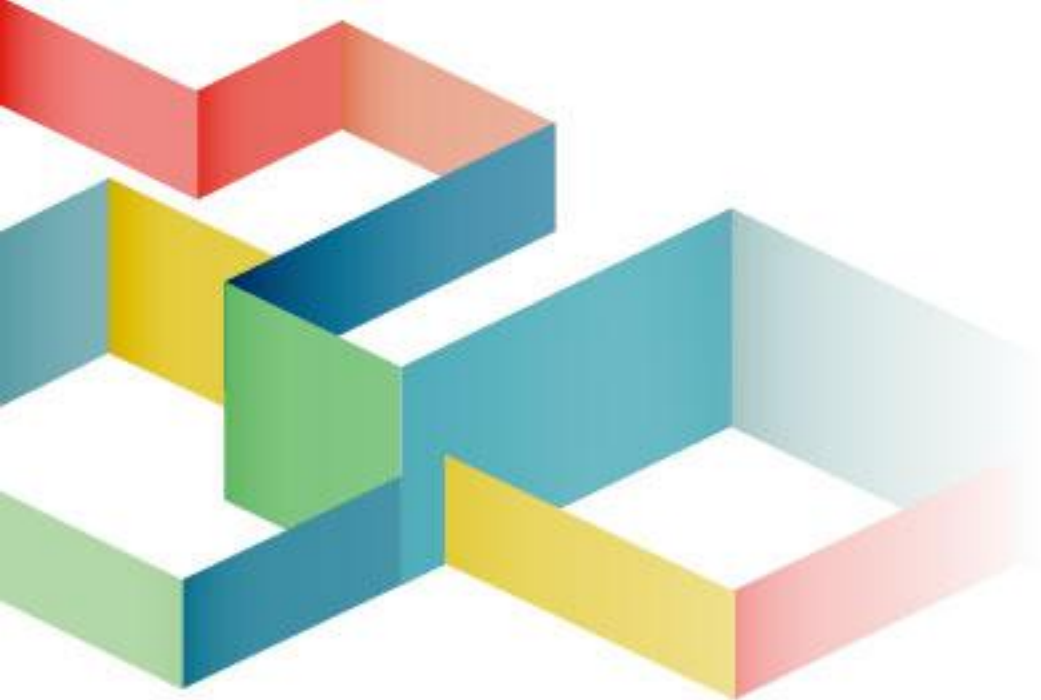
6.2 Specifications

Electrical parameters	Rated voltage	AC-100-240V-50/60HZ
	Rated power	30W
Working environment	Operating temperature	0°C~+40°C
	Working humidity	0%RH~80%RH, non-condensing
Storage environment	Storage temperature	-10°C~+60°C
	Storage humidity	0%RH~95%RH, non-condensing
Chassis size	482mm×486mm×177mm	
Net weight	11.3Kg	
Gross Weight	14.9Kg	
Packaging information	Outer box size	615mm×565mm×275mm
	Accessories	1 × power cord, 1 × certificate, 1 × Broadcast Control Software Dongle

*Current and power consumption may vary depending on factors such as product usage, environment, and settings.

7 Precautions

- High voltage hazard: This product operates at AC 100V~240V.
- Do not allow liquids or metal fragments and other conductive materials to enter the device, to prevent safety accidents.
- Please use the device in a dry and clean environment.



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