

MC8K

Multimedia Server

Specification V4.0



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1 Update Record

Document version	Release time	Update history
V4.0	July 15, 2025	first release

2 Product Introduction

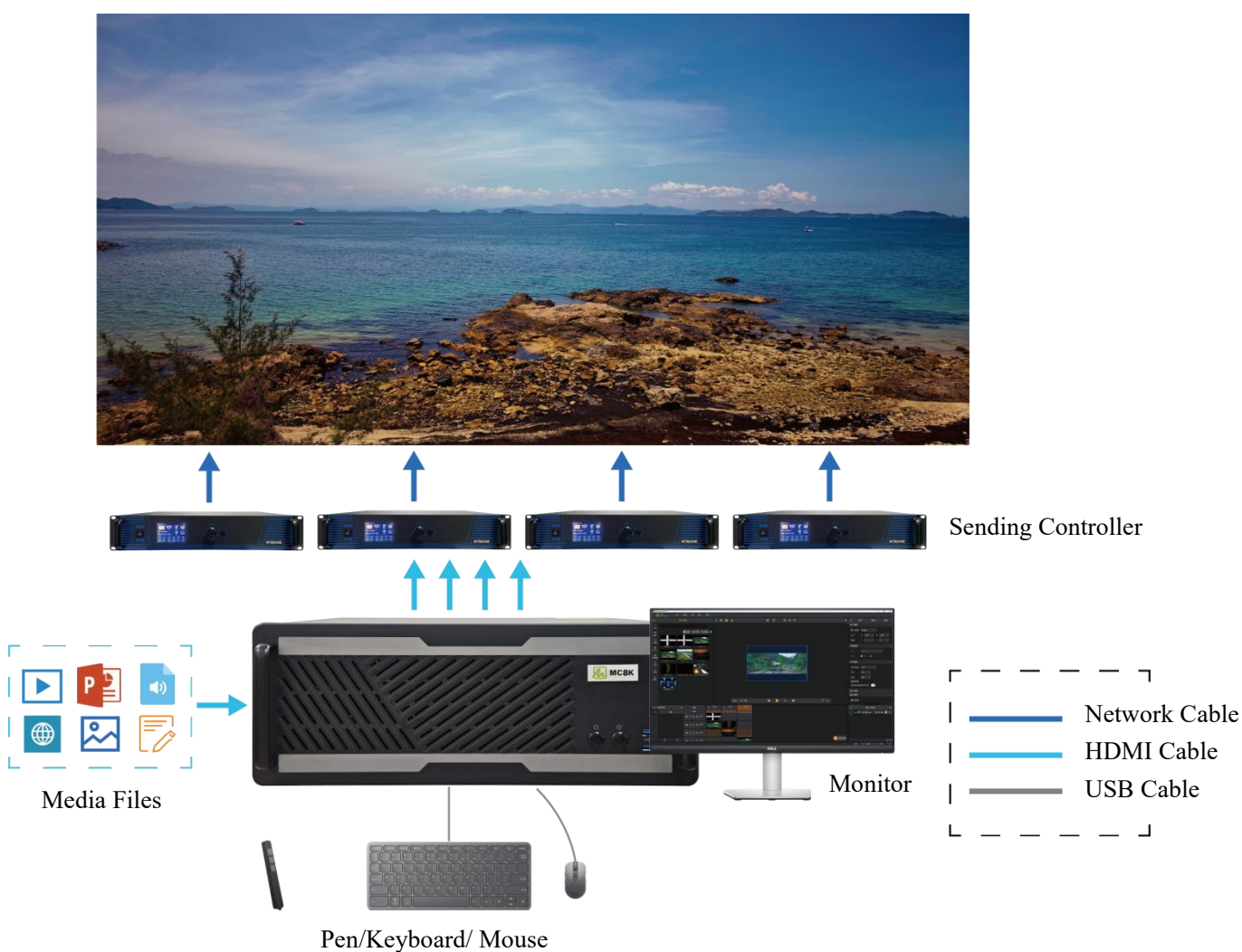
MC8K Multimedia Broadcasting Control Server adopts high-performance processors and professional-grade industrial motherboards, supporting 4-channel 4K@60Hz video output• Integrated with professional media playback control software for batch management and independent control of multiple LED displays• Single unit supports simultaneous output to multiple displays with different resolutions.

3 Product Features

- Supports 4-channel DP1.4 video output interfaces, each interface supports 4K@60Hz 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
- Compatible with mainstream video formats including but not limited to: Hap, HapQ, Hap Alpha, H.264 encoded MOV/AVI/MP4, etc.
- HAP format: Maximum support for 20Gbit bitrate and 16K*8K@60fps video playback
- H265 support: Standalone playback at 8192 * 8192@24/25/30/50/60fps
- Audio channel support: 5.1/7.1/7.2 digital audio formats including stereo, Dolby, PCM, DTS, etc.
- Supports differential and asynchronous display of no less than 500 signals including videos, images, U3D applications, UE4 applications, 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
- Supports HDR video playback

- 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
- Eliminates complex BIOS settings - physical switch for power-on/power-off after power recovery
- Default support for Wake-on-LAN without additional configuration

4 Application Scenarios



5 Product Appearance

Front Panel

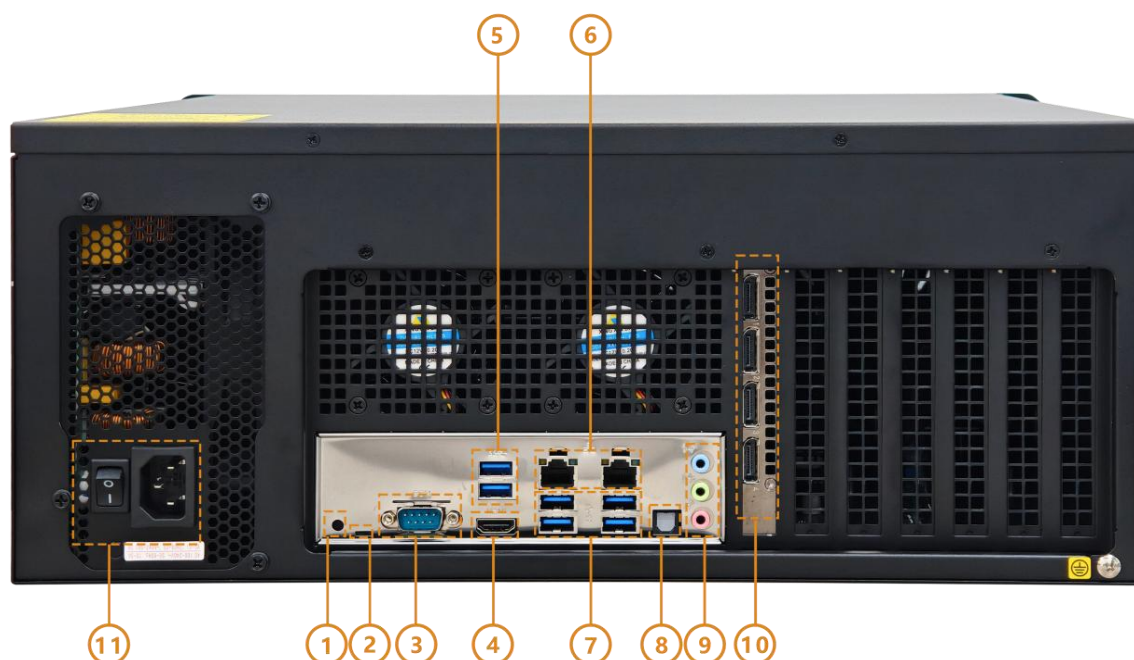


*Product images are for reference only. The actual product shall prevail upon purchase.

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

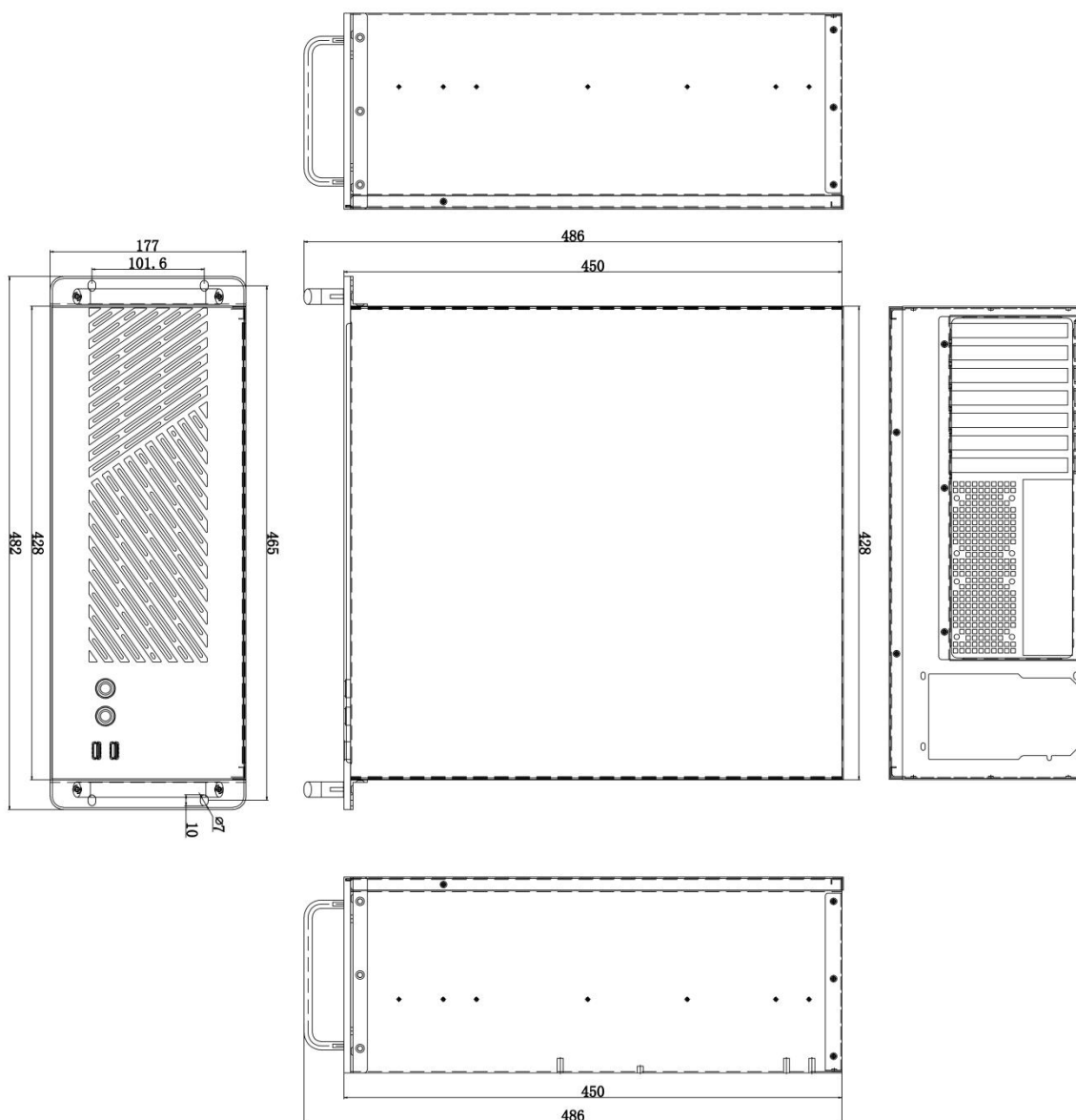
Rear Panel



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#	Name	Illustration
1	BIOS Reset	One-Click BIOS Restore
2	Power-On Reset Switch	Power-On Auto-Start Switch: Slide left to disable, slide right to enable
3	COM	Industrial Control Interfaces
4	HDMI	1× HDMI 2.0 output port, supporting 3840×2160@60Hz resolution
5	USB	2×USB 3.0 ports, supporting USB 3.0 Gen2x1 (10Gb/s)
6	LAN	2×RJ45 Gigabit Ethernet ports
7	USB	4×USB 3.0 ports, supporting USB 3.0 Gen2x1 (10Gb/s)
8	Audio Jack	Optical audio port, supporting 5.1, 7.1, 7.2 digital audio transmission
9	Audio Jack	Left and right channels, audio input/output
10	DP	4×DP 1.4 output ports
11	Power Supply	AC 100-240V power input port

5.2 Product Dimensions



Tolerance: ± 0.3 Unit: mm

6 Product Parameters

6.1 Basic Parameters

Product Name	Multimedia Server (Integrated Control and Display)
Product Model	MC8K
Hardware Output	DP1.4 × 4
Graphics Card	NVIDIA Professional Graphics Card
Capture Card (Optional)	HDMI/SDI Interfaces
CPU	Intel 8-Core 16-Thread Processor
Memory	16GB DDR4 RAM
Hard Drive Capacity	1TB M.2 High-Speed SSD
Power Supply	650W Power Supply
Chassis	4U Industrial Server Chassis
Broadcast Control Software	M2 Broadcast Control Software

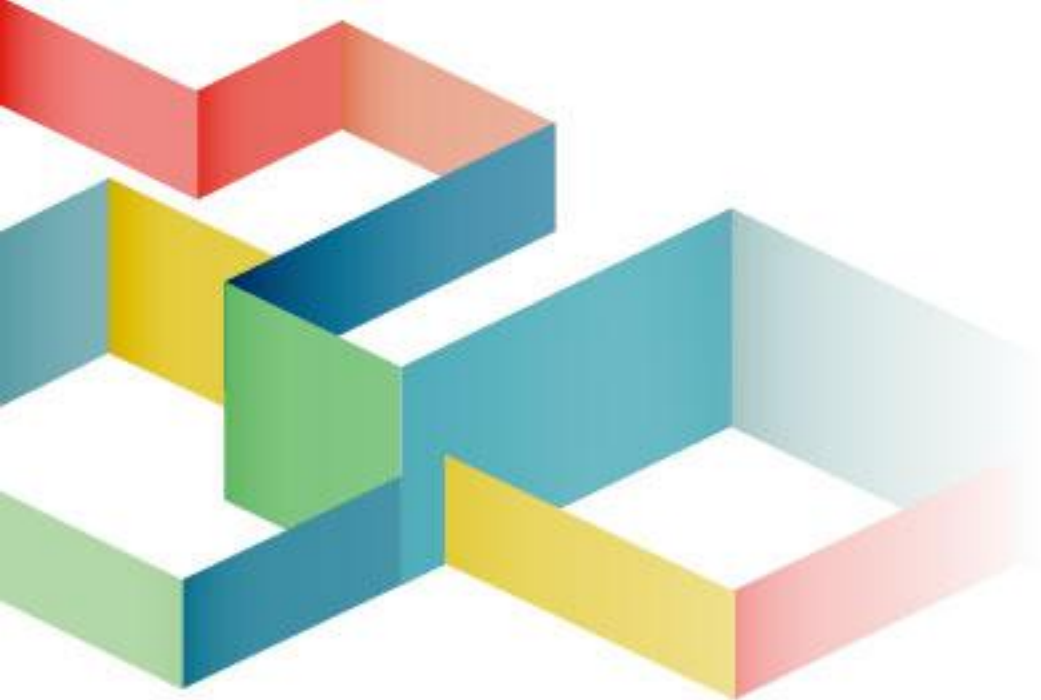
6.2 Specifications

Electrical parameters	Rated voltage	AC-100-240V-50/60HZ
	Rated power	650W
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	11.65Kg	
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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