

MC4K Pro

Multimedia Server

Specification V4.0



CONTENT

1	Update Record	1
2	Product Introduction	1
3	Product Features	1
4	Application Scenarios	2
5	Product Appearance	3
5.1	Interface Illustration	3
5.2	Product Dimensions	5
6	Product Parameters	6
6.1	Basic Parameters	6
6.2	Specifications	6
7	Precautions	7

1 Update Record

Document version	Release time	Update history
V4.0	June 3, 2026	first release

2 Product Introduction

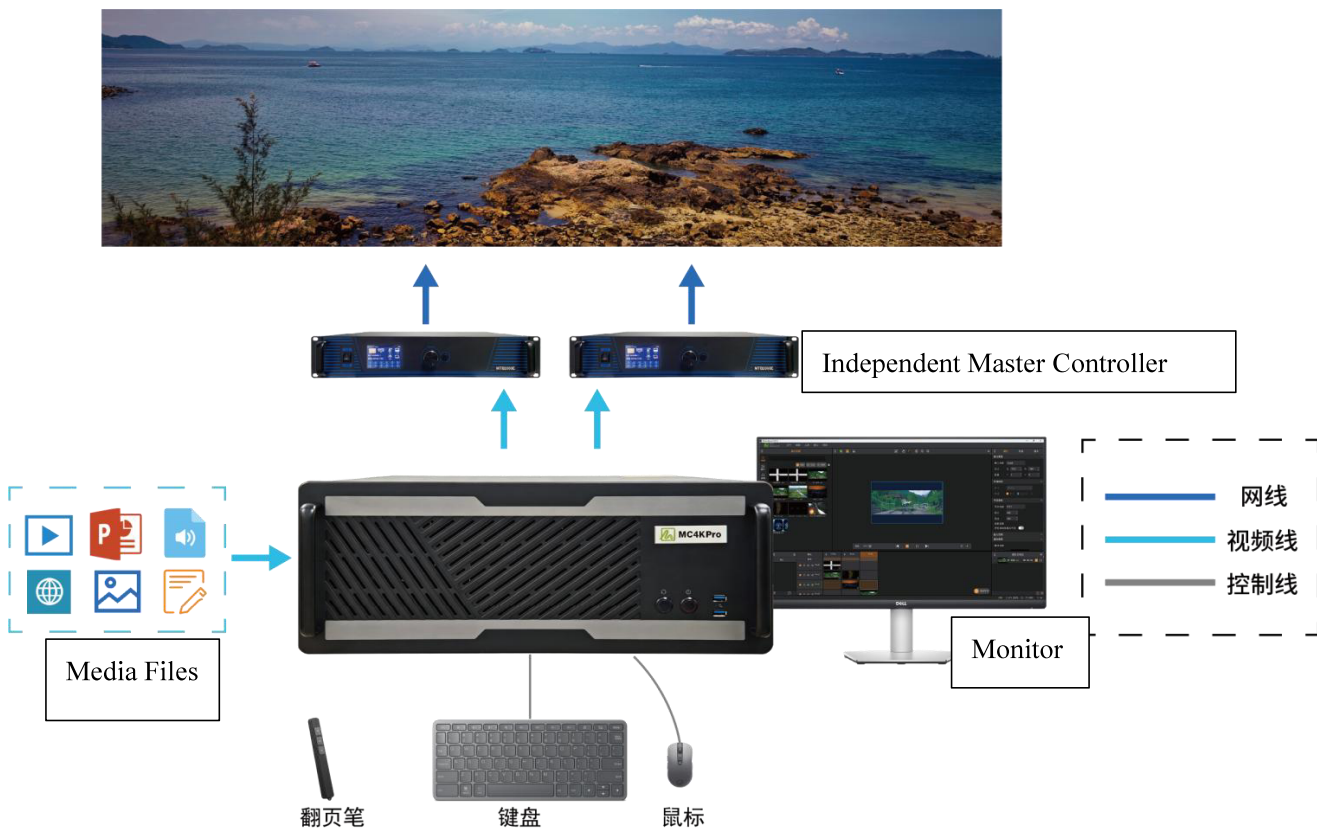
MC4K Pro Multimedia Broadcasting Control Server adopts an integrated customized industrial motherboard capable of delivering 2-channel 4K@60Hz video signal output. Paired with professional media playback control software, it supports creative splicing displays and diverse complex layout solutions to meet personalized presentation requirements.

3 Product Features

- Supports 2-channel DP1.4 video output interface, single 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.
- Supports differential and asynchronous display of signals including NDI, RTSP, capture cards, etc.
- Allows saving multiple slice projects with seamless switching via control systems
- 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 playback in window mode and timeline mode, with no limit on the number of program scenes
- Playback features include looping, last frame, and program skipping
- Supports fade-in and fade-out effects when switching programs
- Supports scheduled playback

- Supports PPT playback and control via a presentation remote controller
- Supports converting standard videos to CAVE perspective
- Supports HDR video playback
- Supports device status monitoring, including server CPU and memory usage, rendering frame rate
- Supports a screen lock feature that allows you to lock the software interface at any time to prevent accidental operations

4 Application Scenarios



5 Product Appearance

Front Panel

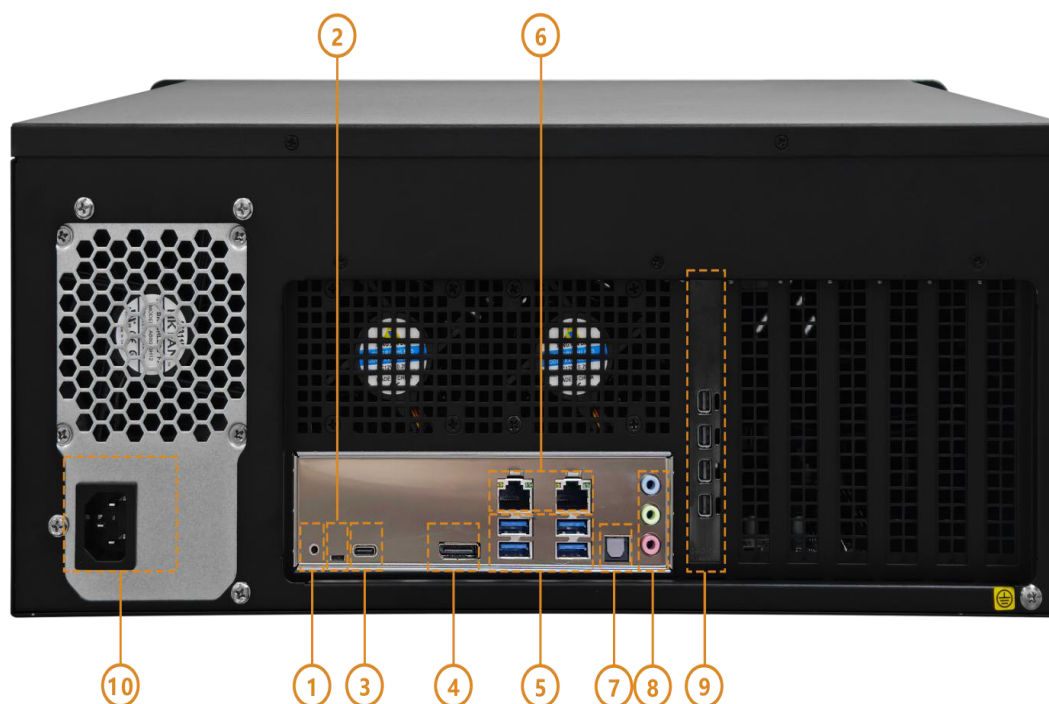


*Product images are for reference only. The actual product shall prevail upon purchase.

5.1 Interface Illustration

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

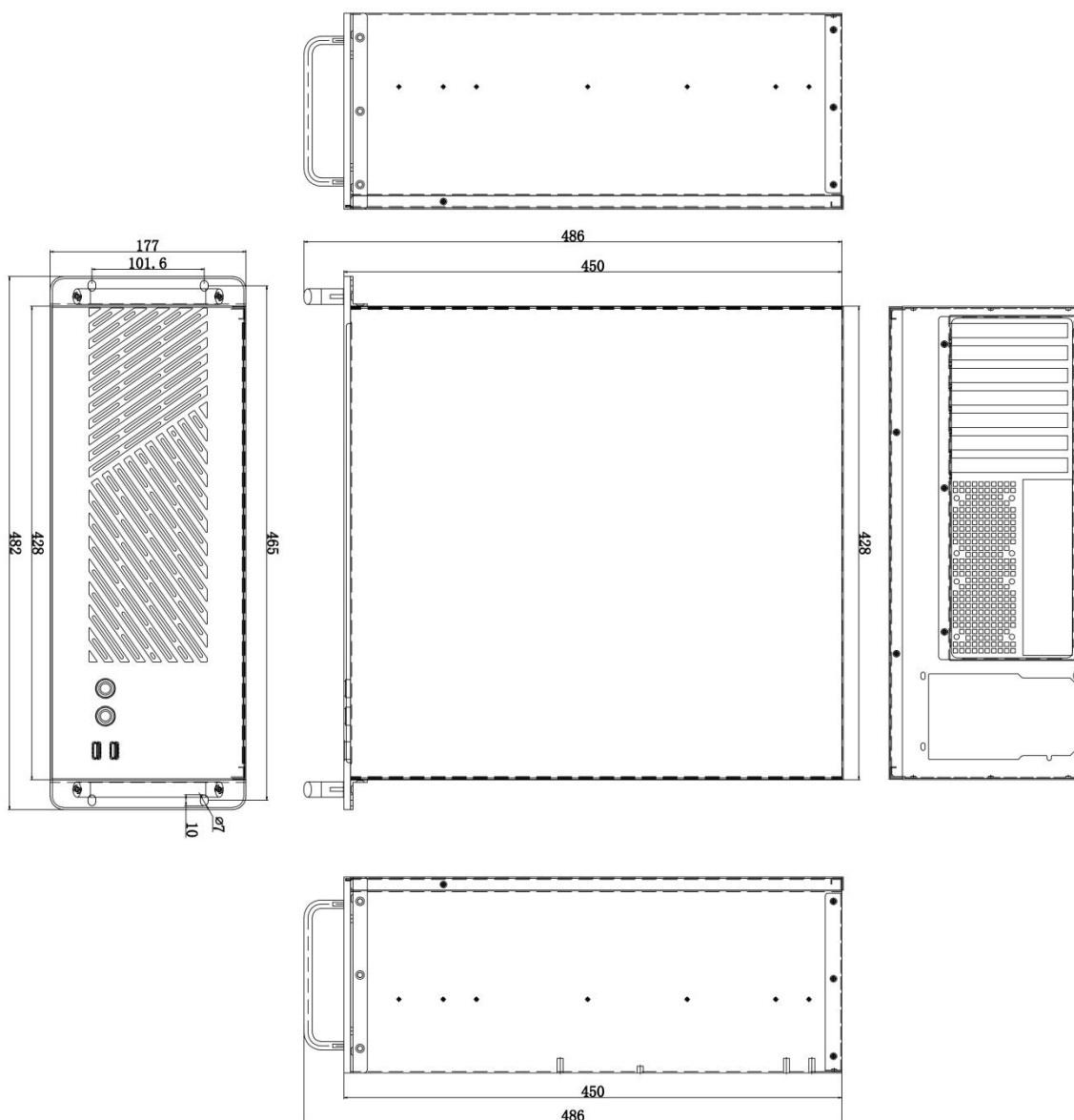
Rear Panel



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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	Type-C	1× Type-c Interfaces
4	DP	1× DP1.2 output port, supporting 3840×2160@60Hz resolution
5	USB	4×USB 3.0 ports
6	LAN	2×LAN ports, supports Wake-on-LAN
7	Audio Jack	Optical audio port, supporting 5.1 digital audio transmission
8	Audio Jack	Audio input (blue), audio output (green), microphone input (pink)
9	Mini DP	4×Mini DP 1.4 output ports
10	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 (Control and Display Integrated)
Product model	MC4K Pro
Hardware output	Mini DP1.4×2
Graphics Card	NVIDIA Professional Graphics Cards
Capture Card	HDMI/SDI Interface
CPU	Intel 20-core, 28-thread processor
Memory	16GB DDR5 RAM
Hard Drive Capacity	500GB M.2 high-speed solid-state drive
Power Supply	300W power supply
Chassis	4U industrial control server chassis
Broadcast Control Software	M2 broadcast control software

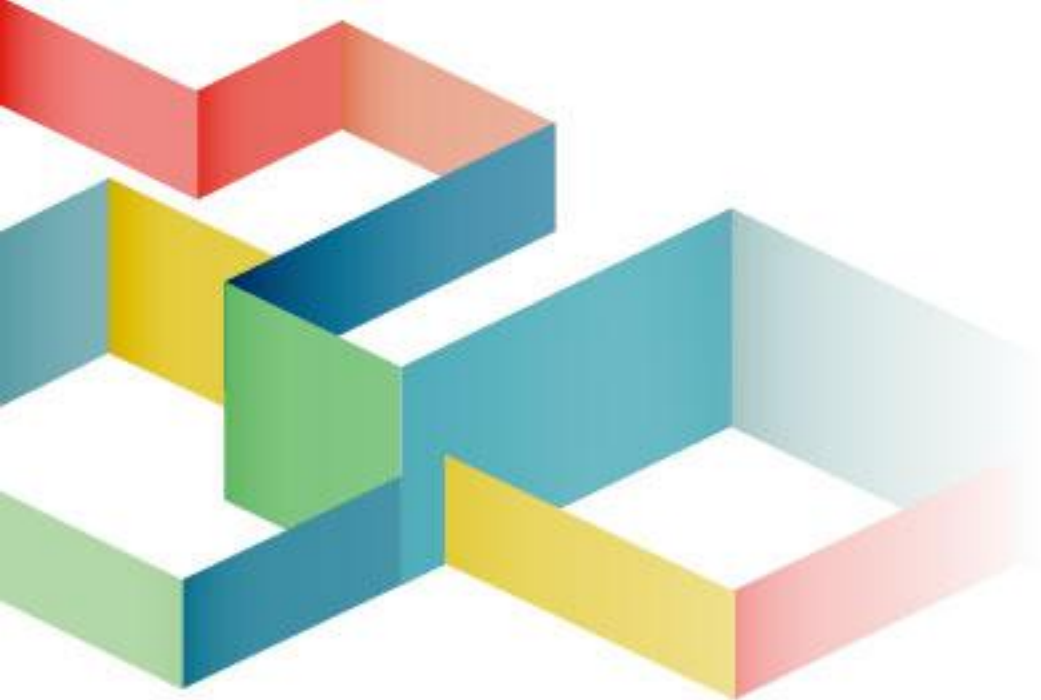
6.2 Specifications

Electrical parameters	Rated voltage	AC-100-240V-50/60HZ
	Rated power	300W
Working environment	Operating temperature	0℃~+40℃
	Working humidity	0%RH~80%RH, non-condensing
Storage environment	Storage temperature	-10℃~+60℃
	Storage humidity	0%RH~95%RH, non-condensing
Chassis size	482mm×486mm×177mm	
Net weight	11.8 Kg	
Gross Weight	15.3Kg	
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, 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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