

MC-C2K

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

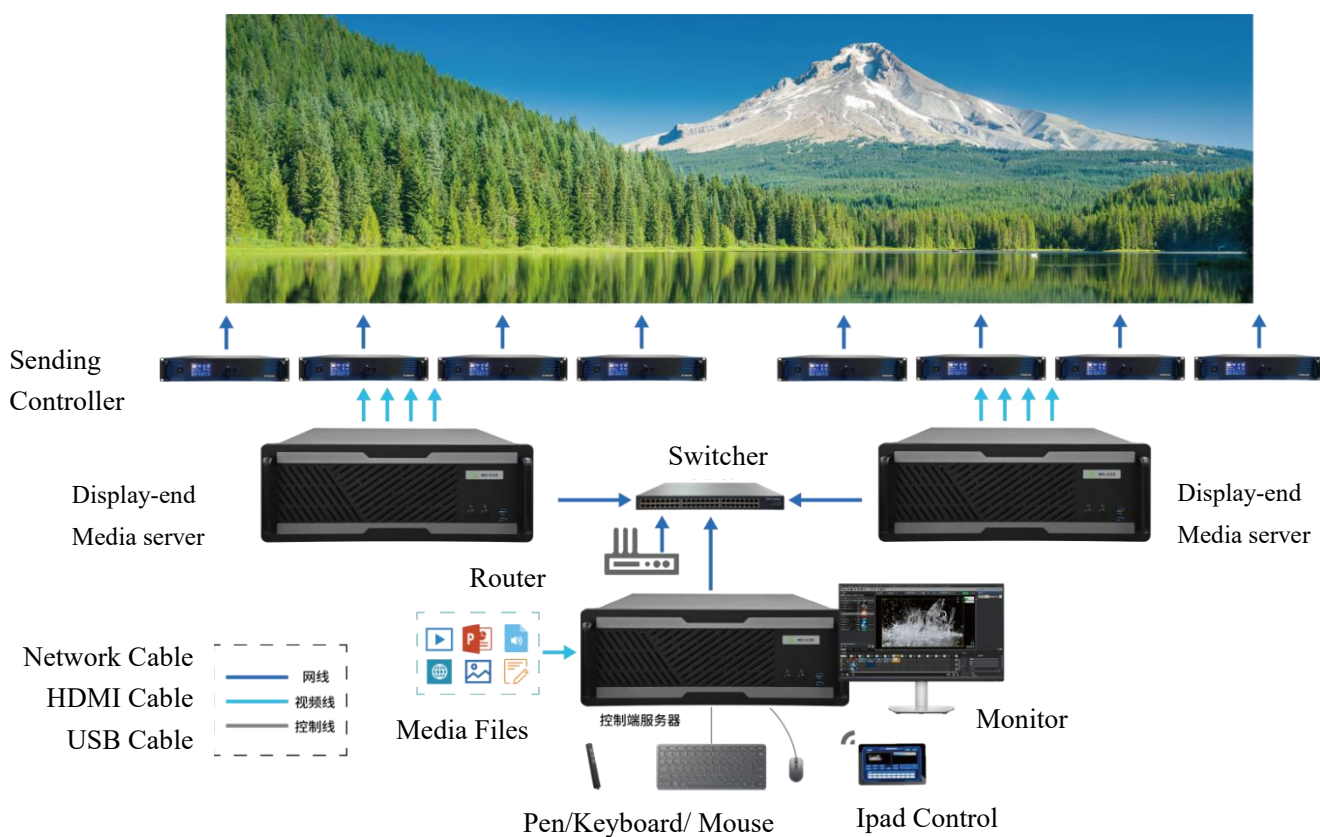
MC-C2K is the latest multimedia playback and control server developed by Mooncell. It utilizes a high-performance processor paired with a professional and stable industrial motherboard. Combined with the MC-C2 multimedia “playback and control” software, it offers features such as creative splicing of the led display, decoding of ultra-high resolution video, and device status monitoring. It can achieve pixel-to-pixel display for large screens and support various splicing of irregular screens, greatly meeting the playback and control requirements of various projects.

3 Product Features

- Control server paired with display server for ultra-large resolution pixel-to-pixel output
- - Allows arbitrary rotation of images and splicing of displays at different shapes and angles.
- Online frame synchronization: Supports Quadro Sync synchronization cards. The multi-machine synchronization technology ensures strictly synchronized output images without tearing.
- Powerful decoder: Supports high-performance hardware decoding formats such as H.265, HVC, and HAP, with built-in optimized decoding.
- Support for control protocols: Art-Net, OSC, MIDI, TCP/UDP, HTTP, IOT, etc.
- Tablet control (optional): Supports a mobile control terminal APP, enabling centralized management and control of exhibition hall equipment as well as quick operations.
- Support for media masking: Allows custom mask templates.

- Support for R, G, B keying: Enables customization of the keying area.
- Support for fade-in and fade-out effects for program switching.
- Program effects: Supports adjustment of multiple attributes such as playback speed, transparency, volume, saturation, hue, contrast, brightness, feathering, and color smoothing.
- Window mode playback: No upper limit on the number of window layers.
- Playback options: Supports loop playback, last frame hold, and program jumping.
- Supports power-on/off script settings to automatically implement playback control from the control terminal
- Supports scheduled task playback
- Supports NDI, Spout, and capture card signal input, with optional HDMI and SDI signal capture cards
- Supports multi-machine master-slave backup to ensure reliable display between master and backup terminals
- Supports PPT playback and control via presentation clickers
- Supports Wake-on-LAN and power-on auto-start functions
- Supports abnormal status detection with key information prompts for device and material playback anomalies
- Supports device status monitoring, including server CPU and memory usage, rendering frame rate, and screen status
- Supports screen lock function to instantly lock the software interface and prevent erroneous operations

4 Application Scenarios



5 Product Appearance

Front Panel

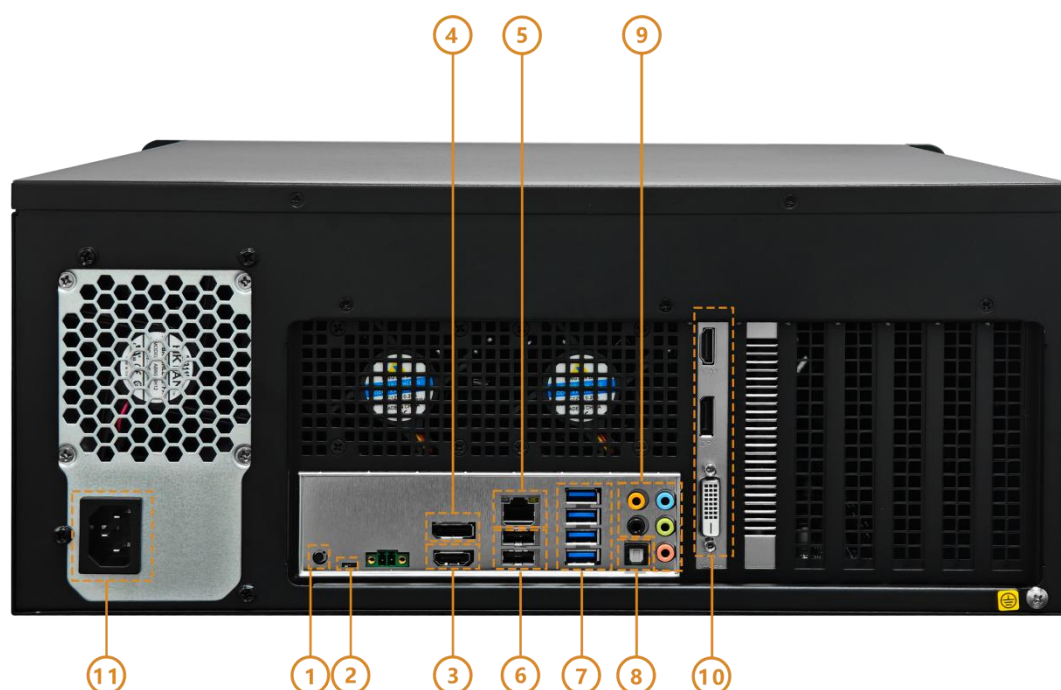


*Product images are for reference only. The actual product shall prevail upon purchase.

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

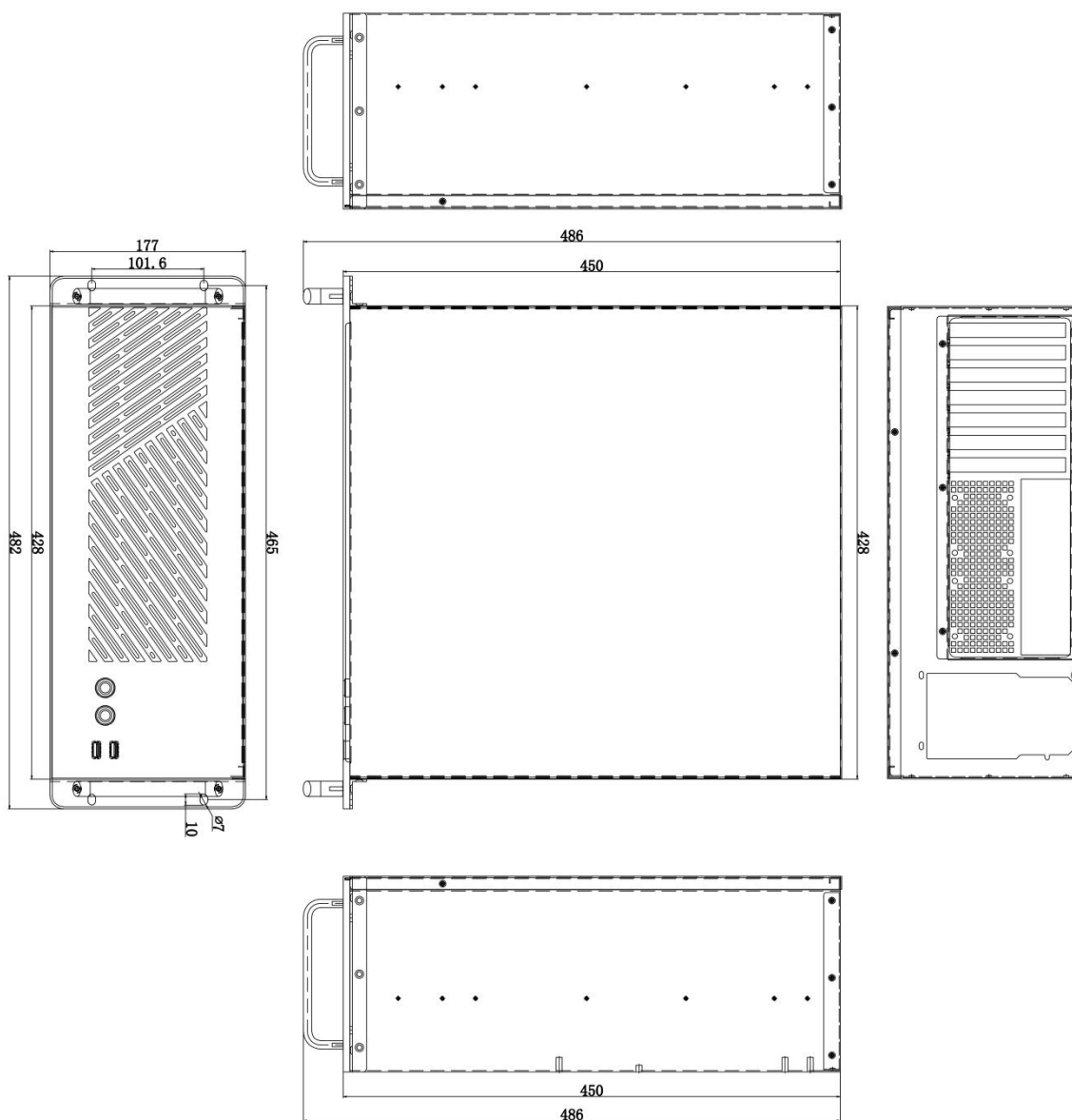
Rear Panel



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#	Name	Illustration
1	Restore BIOS	One-click restore BIOS
2	Power-on self-starting lever	Power on the self-starting lever, dial left to close, dial right to open
3	HDMI	1 × HDMI2.0 output interface, support 3840 * 2160@60Hz resolution
4	DP	1 × DP1.2 output interface, support 3840 * 2160@60Hz resolution
5	LAN	1 × LAN interface, support network wake-up
6	USB	2 × USB 2.0 interface, maximum transmission bandwidth 480Mbps
7	USB	4 × USB 3.2 Gen 1 interface, maximum transmission bandwidth 5Gbps
8	SPDIF	1 x SPDIF_OUT interface, support SPDIF fiber digital output
9	Audio Interface	Line In (Blue), Audio Out (Green), Microphone In (Red), Digital Out or Mid/Bass Out (Orange), Post Audio Out (Black)
10	Output Interface	DP1.2×1、HDMI2.0×1、DVI×1
11	Power Supply	AC 100-240V power input interface

5.2 Product Dimensions



Tolerance: ± 0.3 Unit: mm

6 Product Parameters

6.1 Basic Parameters

Product name	Multimedia server (Control end)
Product model	MC-C2K
Hardware output	DP1.2×1、HDMI2.0×1、DVI×1
Graphics card	NVIDIA professional graphics card
Capture card (optional)	HDMI/SDII Interface
CPU	Intel 8 core 16 thread
Memory	16G DDR4
Hard disk capacity	1TB M.2 High Speed Solid State Drive
Power supply	300W
Chassis	4U industrial control server chassis
Broadcast control software	MC-C2 broadcast control software

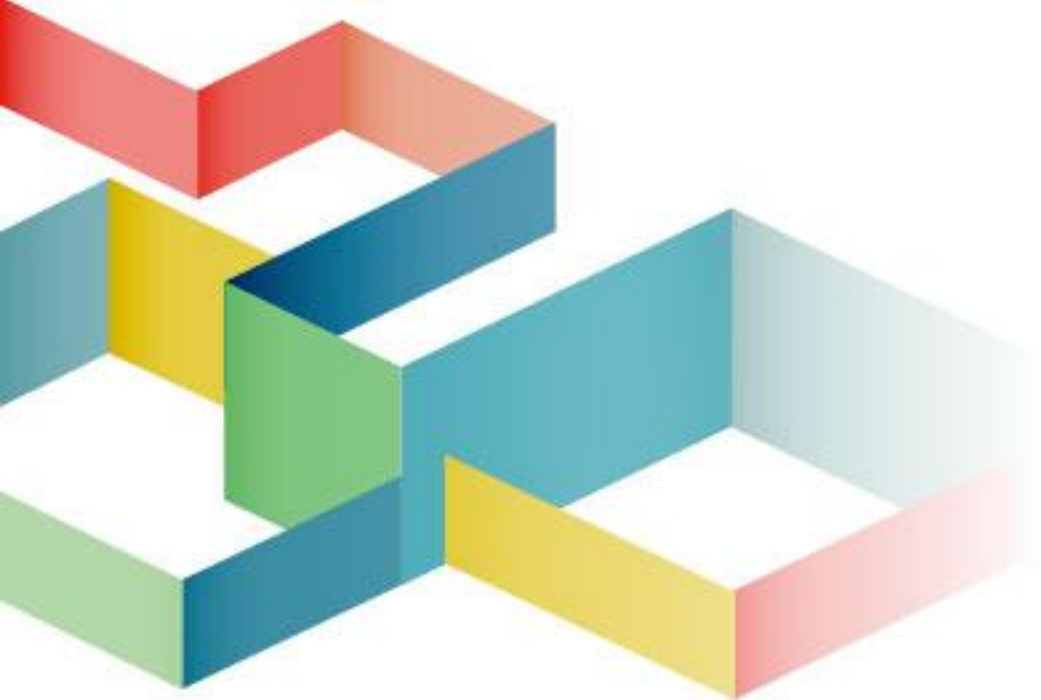
6.2 Specifications

Electrical parameters	Rated voltage	AC-100-240V-50/60HZ
	Rated power	300W
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	
Packaging information	Outer box size	615mm×565mm×275mm
	Accessories	1 × power cord, 1 × certificate

*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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