

MC-C2KX

Multimedia Server

Specification V4.0



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1 Update history

Document version	Release time	Update history
V4.0	July 16, 2025	first release

2 Product Introduction

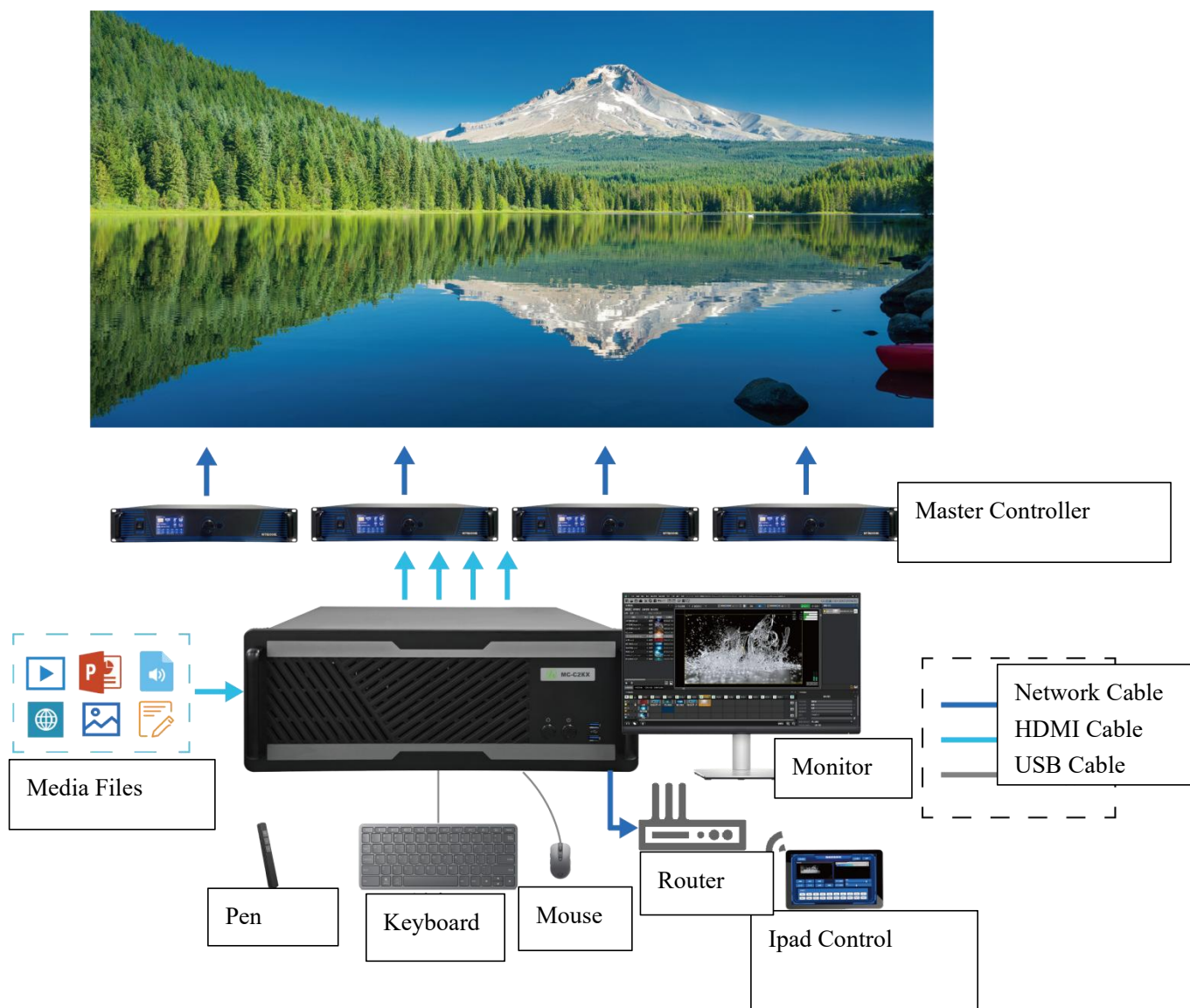
MC-C2KX is the latest multimedia playback and control server developed by Mooncell. It utilizes a high-performance processor paired with a professional and stable industrial motherboard. It can support 4*4K@60Hz video signal outputs. Combined with the MC-C2 multimedia “playback and control” software, 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

- It supports 4 DP 1.4 video output interfaces, with each interface capable of outputting 4K at 60Hz.
- Allows arbitrary rotation of images and splicing of displays at different shapes and angles
- Powerful decoder supporting high-performance hardware decoding formats: H.265, HVC, HAP, etc., with built-in optimized decoding.
- Supports control protocols: Art-Net, OSC, MIDI, TCP/UDP, HTTP, IOT, etc.
- Tablet control (optional), supports mobile control APP, enabling centralized management and quick operation of exhibition devices.
- Supports media masking with customizable mask templates.
- Supports R, G, B chroma keying with customizable keying areas.
- Supports fade-in/fade-out transition effects for program switching.
- Supports adjustment of multiple playback effect attributes including playback speed, transparency, volume, saturation, hue, contrast, brightness, feathering, and color smoothing

- Window mode playback with unlimited number of window layers.
- Playback supports loop playback, last frame hold, and program jump.
- Supports setting power-on/power-off scripts for automatic playback control via the control terminal.
- Supports scheduled tasks for timed playback
- Supports NDI, Spout, and capture card signal input, with optional HDMI and SDI capture cards
- Supports PPT playback, with support for PPT control via presentation clicker
- Supports Wake-on-LAN and auto power-on
- Supports abnormal status detection, providing key information prompts for device and content playback exceptions
- Supports device status monitoring, including server CPU and memory usage, rendering frame rate, and screen status
- Supports screen lock function, allowing instant locking of the software interface to prevent accidental operation

4 Application Scenarios



5 Product Appearance

Front Panel

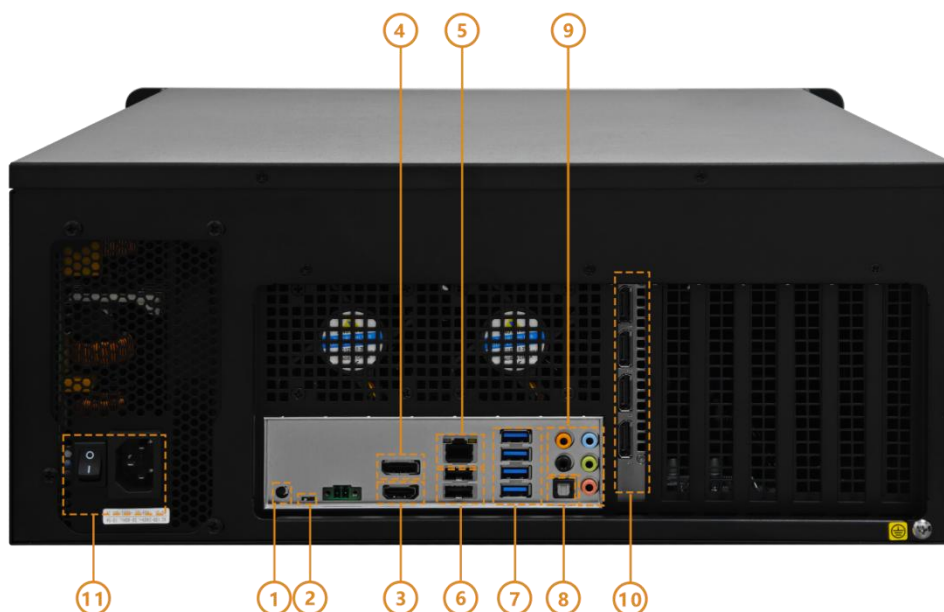


*Product images are for reference only. The actual product shall prevail upon purchase.

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

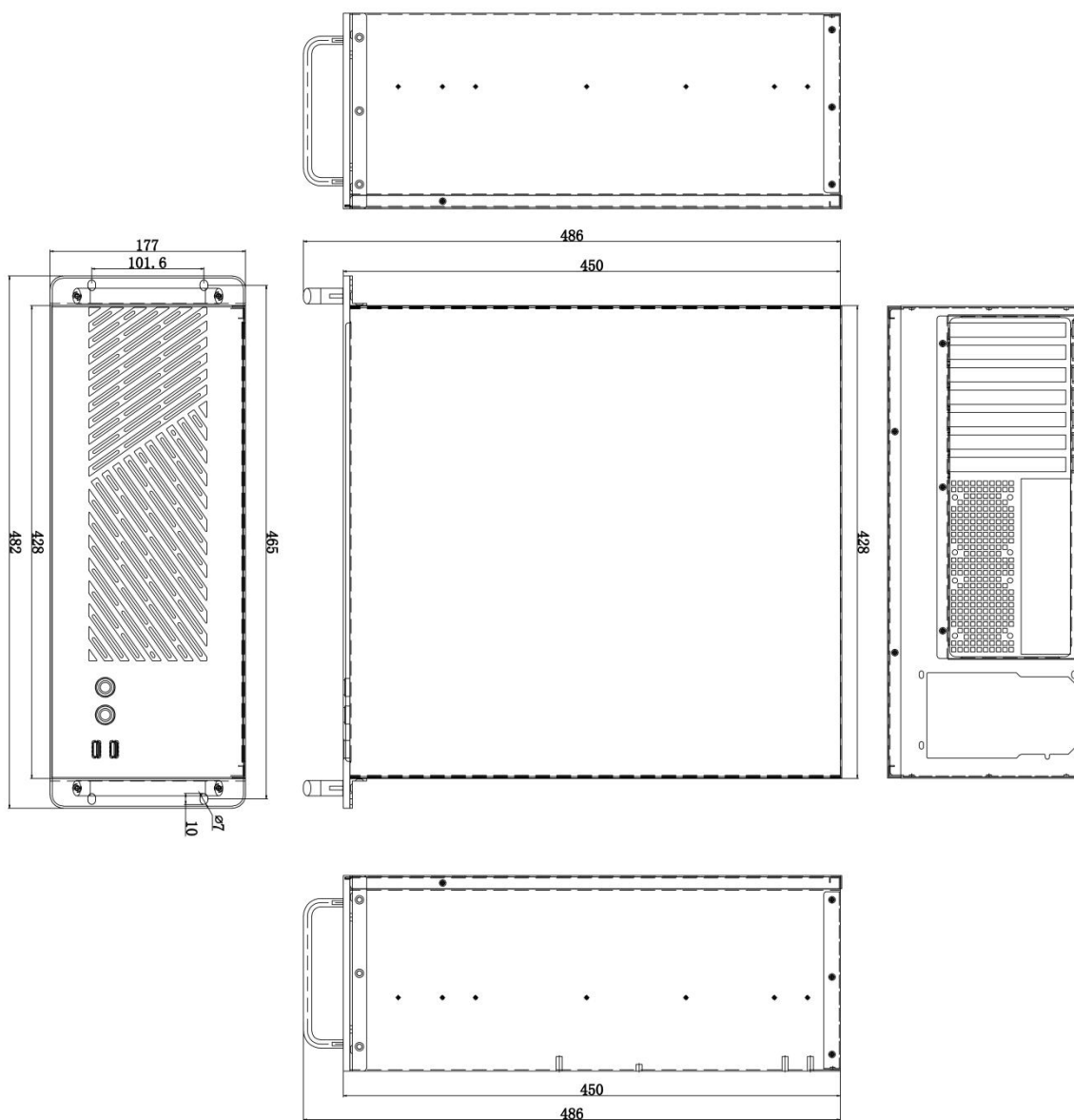
Rear Panel



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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	DP	4×DP1.4 Output
11	Power Supply	AC 100-240V power input interface

5.2 Product Dimension



Tolerance: ± 0.3 mm

6 Product Parameters

6.1 Basic Parameters

Product name	Multimedia server (integrated control and display)
Product model	MC-C2KX
Hardware output	DP1.4 × 4
Graphics card	NVIDIA professional graphics card
Capture card (optional)	HDMI/SDI interface
CPU	Intel 8 core 16 thread
Memory	16G DDR4
Hard disk capacity	1TB M.2 High Speed Solid State Drive
Power supply	650W
Chassis	4U industrial control server chassis
Broadcast control software	MC-C2 broadcast control software

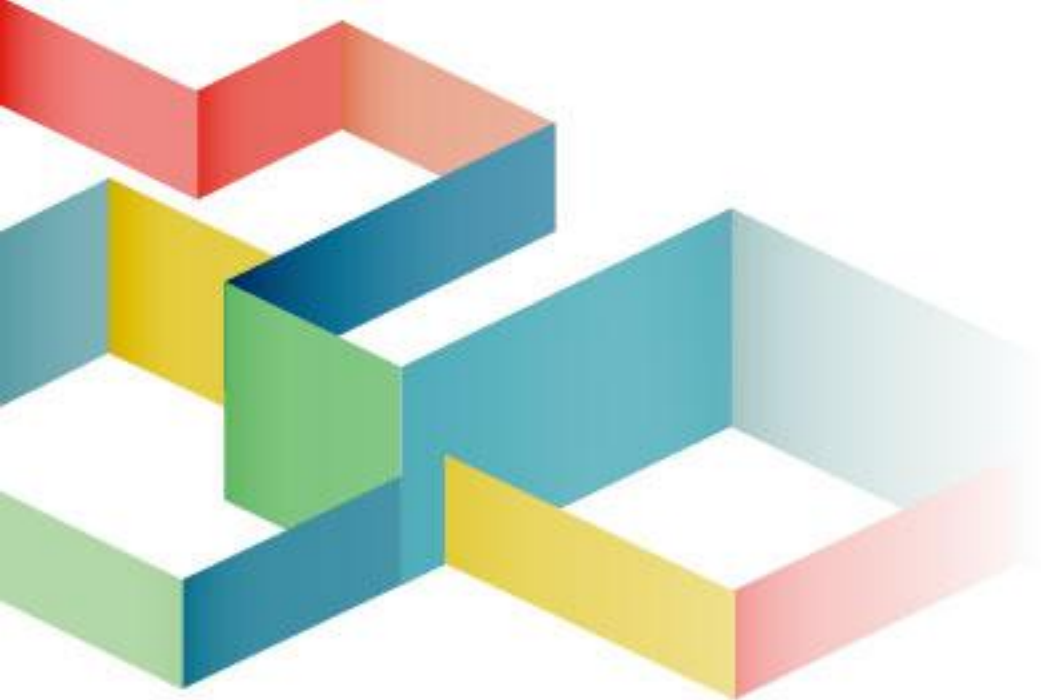
6.2 Specifications

Electrical parameters	Input voltage	AC-100-240V-50/60HZ
	Rated power	650W
Working environment	Operating temperature	0℃~+40℃
	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 × broadcast control software encryption lock, 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.



National after-sales services hotline: 400-881-3531

Official website: www.mooncell.com.cn

Address: Mooncell Building, Third Industrial Zone, Baoshi South Road, Shiyan
Street, Baoan District, Shenzhen

