MC-C2 Multimedia Server

Specification V3.1

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1 Product Overview

Product Introduction

MC-C2 is Mooncell's latest multimedia playback and control server, equipped with a high-performance processor and a professional and stable industrial motherboard, providing reliable support for projects of various sizes.

Paired with the MC-C2 multimedia playback and control software, it supports creative splicing displays, high-resolution video decoding, device status monitoring, and other functional features. It can achieve pixel-to-pixel display on large screens and support various types of special-shaped splicing screen displays, effectively meeting various project control requirements.

Application Scenarios

MC-C2 multimedia server can fully meet the high-definition application requirements of command and dispatch centers, conference reporting centers, exhibition display centers, data operation and maintenance centers, broadcasting and television centers, and other scenarios.

With its powerful capabilities and advanced features, MC-C2 is suitable for applications that demand superior image quality and performance. It provides seamless integration, reliable operation, and efficient management of multimedia content in various professional environments, ensuring a high-quality visual experience and facilitating effective communication and information dissemination.

2 Functions Introduction

- Supports up to 4 DP outputs on a single server, with a maximum resolution of 4096*2160 per channel.

- Allows for arbitrary rotation of images and seamless splicing of displays with different shapes and angles.

- Supports playback of various media types, including videos, images, and text.

- Provides scheduled task playback for planned content playback.

- Allows for previewing of playback content in advance and real-time monitoring of device output.

- Supports online synchronization to ensure strict synchronization of output screens without tearing.

- Supports external signal capture through NDI and capture cards (optional).

- Offers a backup mode for redundancy and fail-over.

- Enables setting of power on/off scripts for automatic control of playback.

- Supports iPad control for centralized management and quick operation of devices in exhibition halls.

- Allows control via central control protocols for scene switching, screen playback, and other functions.

3 Product Specifications

Basic Specifications

General hardware specifications of the server (specific configurations may vary depending on the project)		
Video input interfaces (capture cards)		
Signal Type	**QTY**	**Inputs**
DVI/HDMI/SDI	**Optional**	4 x HDMI（SDI/DVI/VGA/HDMI/Ypbpr/CVBS Optional）
It supports a maximum of 8 channels of 2K or 4 channels of 4K signal capture, with a maximum resolution of 4096X2160@60HZ.		
Video Output Interfaces		
Signal Type	**QTY**	**Outputs**
DP	4	The DP (Display Port) signal supports a maximum resolution of 4096×2160 pixels at a refresh rate of 60Hz
When using a single graphics card, it can support up to four simultaneous DP (Display Port) signal outputs. Each output can handle either four 2K (2560×1440) signals or four 4K (3840×2160) signals.		
Other Interfaces		
USB3.0×2 ； USB2.0×2 ； RJ45（10M/100M/1000M)×1；COM×1（Optional）		

Hardware Introduction

Front Panel

Front Panel Illustration

#	Name	Illustration
	USB	It provides two USB 3.0 interfaces, allowing you to connect external devices such as keyboards, mice, USB drives, and other peripherals.
	Power ON/OFF	Power the device On or Off

Backside Panel
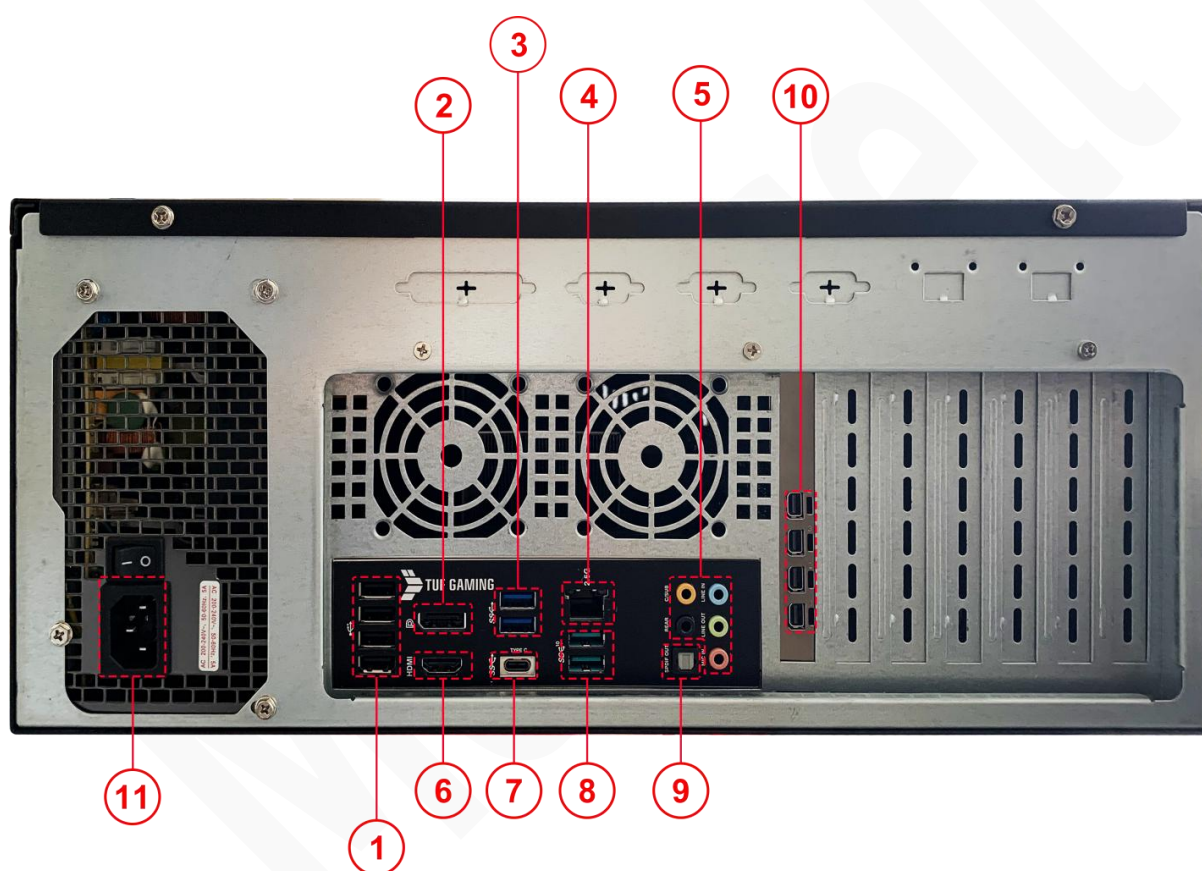
Rear Panel Illustration（Specific configurations may vary depending on the project）		
#	Name	Illustration
1	USB	4xUSB2.0 Interfaces
2	DP	1x DP integrated graphics card output interface (optional)
3	USB	2xUSB3.0 Interfaces
4	LAN	2.5Gb Ethernet Port
5	Audio Interface	Audio channels and microphone, audio input/output interfaces
6	HDMI	1xHDMI integrated graphics card output interface (optional)
7	Type-C	1xType-C Interface
8	USB	2xUSB3.0 Interfaces
9	Optical Fibre S/PDIF	Digital audio output interface
10	Mini DP	4 Mini DP output interfaces for display (optional depending on the project)
11	Power Interface	100-240V AC power supply interface

4 Product Model Selection

Name	Control-End	Display-End	Control&Display-End
Model	MC-C2K	MC-C2X	MC-C2KX
Hardware Outputs	HDMI1.4x1	DP1.2x4	DP1.2x4
Graphics card model	Professional graphics card		
EDID Management	Supported		
Hard drive capacity	500GB SSD		
CPU	Intel Core		
Memory	16GB DDR4		
Audio Output	Stereo XLR		
Operating System	Win 10 Enterprise		
Note			It includes integrated graphics output to the monitor

| Product Name	Multimedia Player
Model	MC-C2PX
Features	Timeline mode editing, unlimited layers. Supports polygonal slicing Supports animation mode and image mode playback. Supports grid templates and geometric transformation switching. Supports various effects such as flash, blur, borders, marquee, etc. Supports virtual screens for camera splicing, close-up shots, live streaming, and irregular screen playback effects. Supports preview mode to view other programs without affecting the main screen output. Automatic startup and playback. Supports central control (supports TCP/UDP protocols for controlling the media server) Supports decoding of any video format, up to 8K resolution Supports video and image playback, multi-point geometry correction, and overall color gamut unification Supports NDI network stream capture Supports multiple signal inputs (HDMI, DVI, SDI, YPbPr, NDI, etc.) Audio

	output: Supports 5.1, 7.1 channel output
Note	The letter "X" in the model represents the number of output channels of the player.

5 Product Parameters

Hardware Parameters

Operating Voltage	100~240V 50/60Hz
Operating Humidity	30-75%
Chassis	4U Industrial Control Server Chassis
Dimensions	Length 482mm x Width 450mmx Height 178mm
Packaging Dimensions	580mmx520mmx260mm
Gross Weight	14.5KG

Product Dimensions
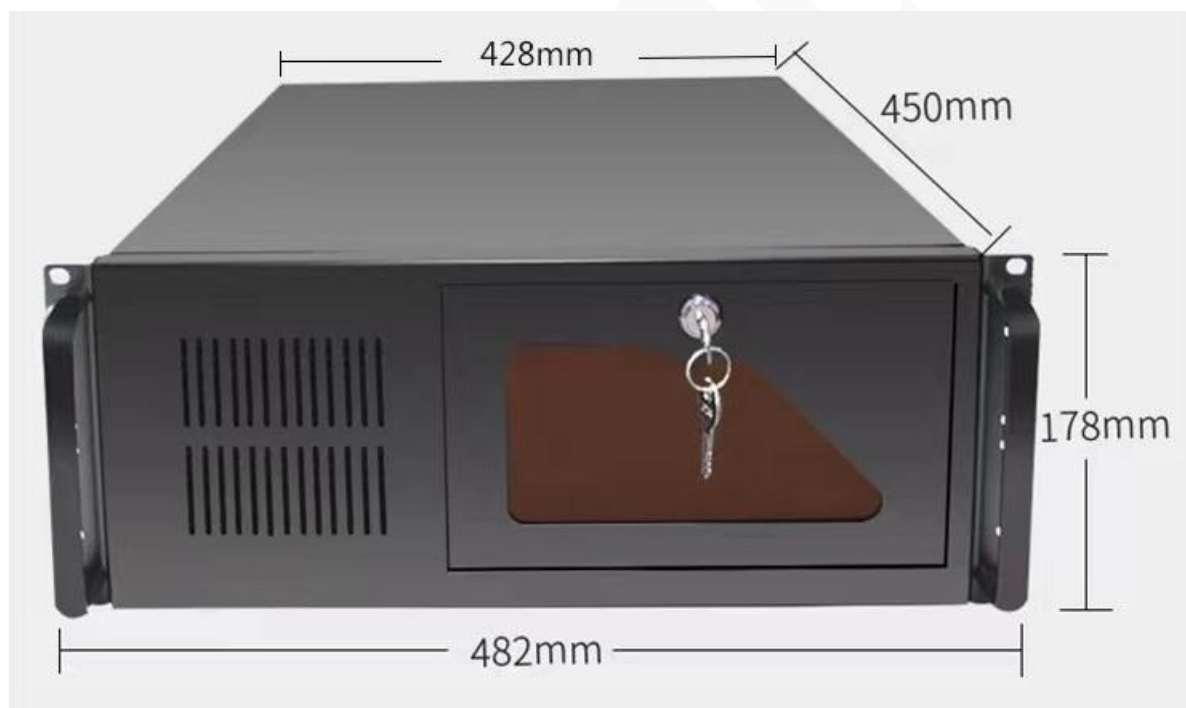
Precautions:

- **High Voltage Hazard: This product operates at AC -100V~240V.**

- **Do not allow liquids, metal fragments, or other conductive objects to enter the device to prevent safety accidents.**

- **Please use the equipment in a dry and clean environment.**