

MTB200S-D

Floor LED Controller

Specification V4.0



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1 Update Records

Document Version	Hardware Version	Release Time	Update Record
V4.0	V30 Pro (V2.0.0)	July 19(th), 2025	First release

2 Product Introduction

The MTB200S-D is an Sending controller independently developed by Mooncell that supports interactive communication protocols for floor led displays, supporting up to 1.3 million pixels. It features powerful processing capabilities, ultra-stable performance, and exceptional cost performance.

The MTB200S-D's powerful video processing and transmission capabilities make it ideal for interactive display projects in education, entertainment, gaming, and more.

3 Product Characteristics

- Supports 1 channel of DVI video signal input, transmitted synchronously via Ethernet cable
- Supports 1 channel of AUDIO input, transmitted synchronously via Ethernet cable
- Supports 2 Gigabit Ethernet ports for output, enabling flexible tiling in vertical, horizontal, or diagonal configurations
- Supports 1 USB communication port for cascading multiple send cards under a single PC
- Supports 1 100Mbps Ethernet communication port
- Supports EDID management
- Compatible with multiple input frame rates including 30Hz, 50Hz, 60Hz, and 120Hz
- Supports host software monitoring of sending card operating parameters and status
- Supports configuration parameter readback
- Supports Gigabit Ethernet error rate detection

4 Product Appearance

Front Panel



* Product photos are for reference only, please refer to the products actually purchased.

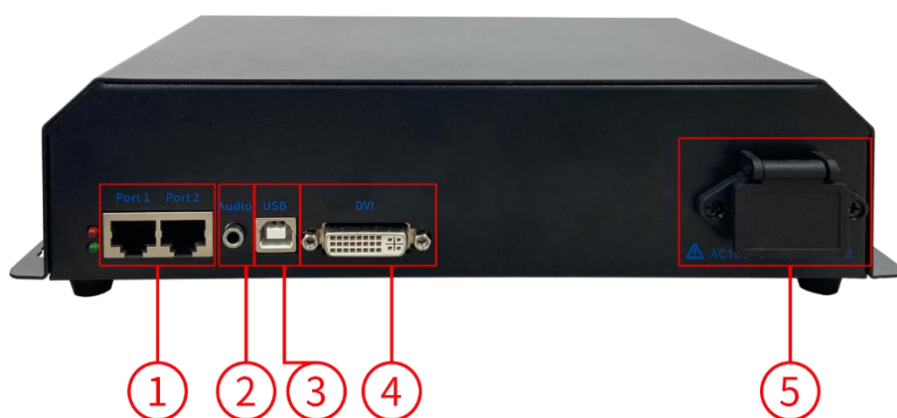
4.1 Description of Data Interface

#	Interface name	Interface description
1	Switch	Main control power supply switch
2	Digital Display	Brightness Display: Shows the current brightness value
3	Indicator	Display device operating status
4	100Mbps Ethernet	1×LAN 100Mbps Ethernet port, debug port
5	Button -	Brightness decrease button
6	Button +	Brightness increase button

Indicator Illustration	
Indicator	Illustration
P1、P2	Network Port Indicator: Steady flashing: Gigabit Ethernet signal communication is normal Steady on: Gigabit Ethernet signal is not connected
DVI	DVI Interface Indicator: Steady on: DVI signal input is normal Steady off: No DVI signal input

USB	USB Interface Indicator: Steady on: USB cable is connected properly Steady off: USB cable is not connected
Light	Brightness Indicator: Press and hold the button while it is lit to adjust brightness
INC	Inspection Indicator Light

Rear Panel

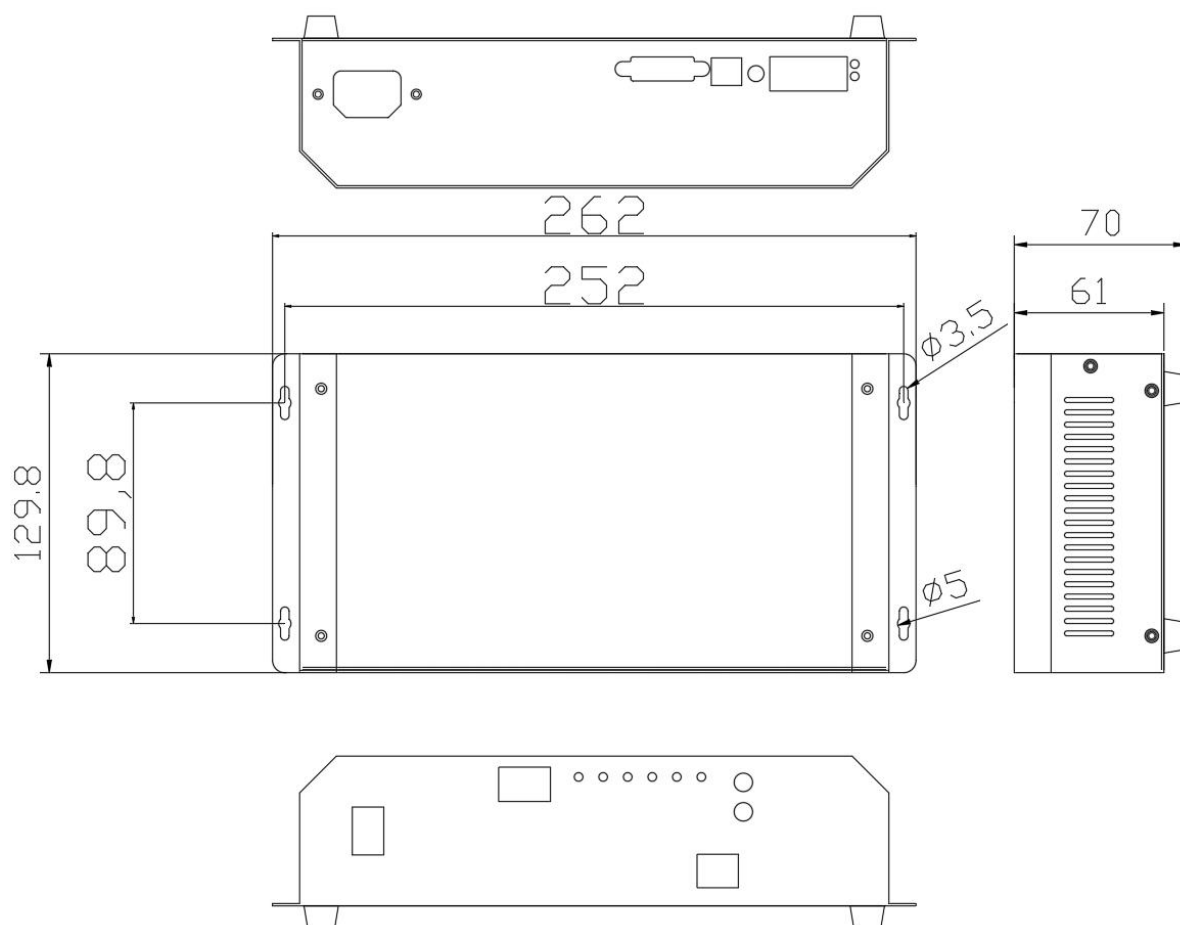


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Rear Panel Description		
Input Interface		
#	Name	Illustration
2	AUDIO	1×3.5mm audio input interface
4	DVI	1×DVI video signal input port, maximum resolution 1920×1200@60Hz
Output Interface		
#	Name	Illustration
1	Gigabit Ethernet port	◆ Port1-Port2 correspond to output ports 1-2 ◆ Maximum single-port load capacity: 650,000 pixels ◆ Supports loop backup between network ports

Control Interface		
#	Name	Illustration
3	USB (B-Type)	Connects to PC software for communication
Power supply interface		
#	Name	Illustration
5	Ac power Interface	AC-100-240V-50/60HZ AC power interface

4.2Product Dimensions



Tolerance: ± 0.3 Unit: mm

5 Product Parameters

5.1 Basic Parameters

Loading capacity	Single network port	Maximum load 655360 pixels, network port load (width × height) 1280 × 512
	Whole Unit	1.30 million Pixels
Load Range	Width	128-4096 Pixels
	Height	64-2048 Pixels
Offset Range	Width	0—4095 Pixels
	Height	0—2047 Pixels

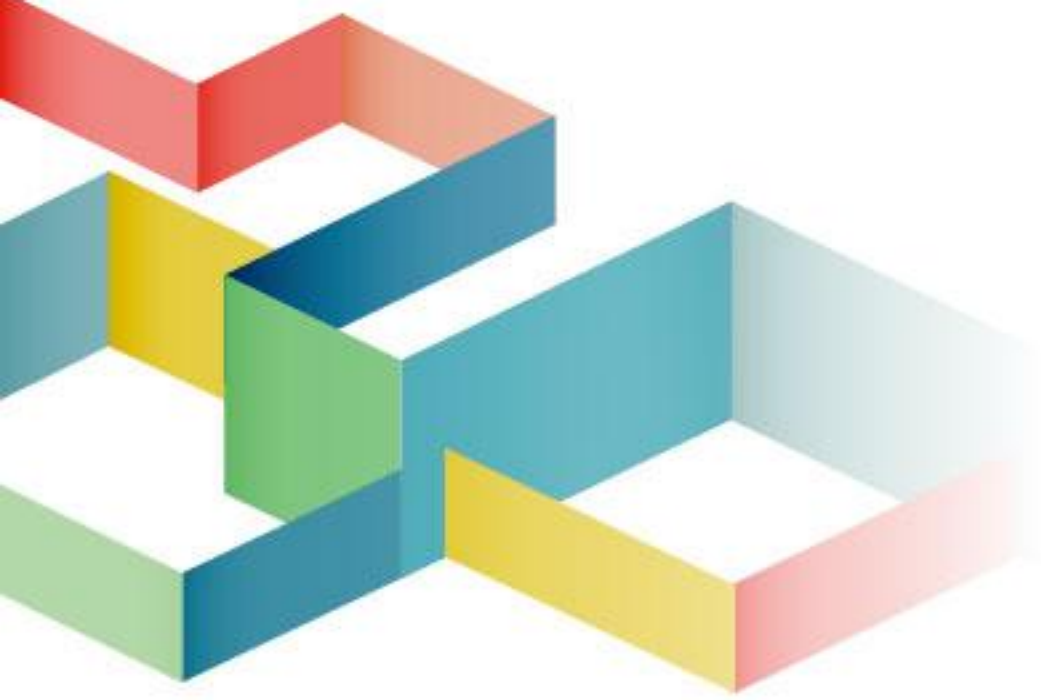
5.2 Specification

Electrical Parameters	Rated voltage	AC-100-240V-50/60HZ
	Rated power	10W
Working Environment	Operating temperature	-20°C~60°C
	working humidity	10%RH~90%RH non-condensing
Storage Environment	Temperature	-20°C~70°C
Chassis size	262mm×129.8×70mm	
Net weight	1.12Kg	
Outer box size	300×200×130mm	
Gross weight	1.9 Kg Description: Including accessories and packaging materials	
Accessory	1×Power Cord、1×USB、1×DVI、1×HDMI to DVI Cable、1×Certificate	

*Current and power consumption may vary depending on factors such as product usage, environment, and settings.

6 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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