



MTB200S

Sending Controller

User Manual/Guide/Handbook

Applicable to MTB200S

Document version:: V2.0

Safety Instruction



This symbol reminds the user that there are important operation and maintenance instructions in the user manual of the equipment.



This symbol warns the user that there is dangerous voltage exposed in the casing of the equipment, and there is danger of electric shock.

Precautions

Reading Instructions Users must read and understand all safety and use instructions before using the equipment.

Save Instructions Users should save safety instructions for future use.

Obedience warning Users should observe all safety and operating instructions in the product and user's guide.

Avoid appending Do not use tools or appending equipment not recommended by the manufacturer of this product to avoid danger.

Warning

Power supply

This equipment can only use the power supply indicated on the product. The equipment must be powered by a power supply system with a ground wire. The third line (ground wire) is a safety facility, which cannot be used or skipped.

Unplug the power supply

In order to safely unplug the power supply from the equipment, please unplug the power cord of all equipment rear or desktop power supply, or any power cord connected to the mains system.

The power cord shall be properly wired to avoid being trampled or squeezed by heavy objects.

Maintenance

All repairs must be carried out by certified maintenance personnel. There are no parts in the equipment that can be replaced by users. To avoid the danger of electric shock, don't try to open the cover of the equipment to repair the equipment yourself.

Vent holes

Some equipment housings have vent slots or holes, which are used to prevent the sensitive components in the machine from overheating. Don't block the vent with anything.

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1 Update Records

Document version	Hardware version	Release time	Update record
V2.0	V30 Pro(V2.0.0)	July 22(nd), 2025	First release of document

2 Applicable Model

The product models applicable to this article are as follows:
MTB200S

In this paper, MTB200S Sending Controller is used to explain:

3 Product Overview

3.1 Product Introduction

The MTB200S is an sending controller developed and launched by Mooncell, supporting up to 1.3 million pixels. It features powerful processing capabilities, ultra-stable performance, and exceptional cost performance

3.2 Product Features

- 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 Ethernet loopback backup and dual master backup
- Supports EDID management
- Compatible with multiple input frame rates including 30Hz, 50Hz, 60Hz, and 120Hz
- Supports host software monitoring of transmitter card operating parameters and status
- Supports configuration parameter readback
- Supports Gigabit Ethernet error rate detection

4 Hardware Introduction

4.1 Hardware Interface Specifications

4.1.1 Front Panel



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

#	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

4.1.2Rear Panel



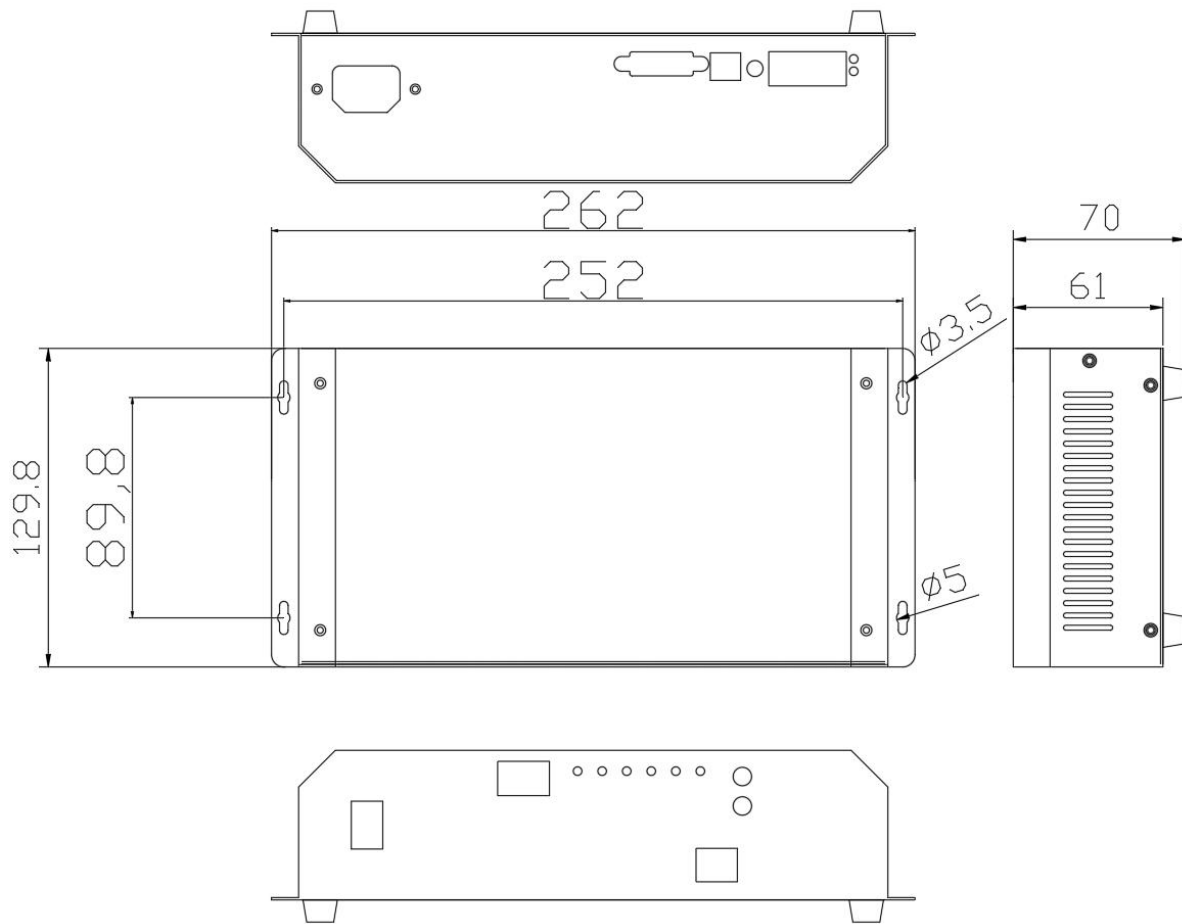
* Product photos are for reference only, please refer to the products actually purchased.

Data Interface Illustration:

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

4.2 Product 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	4096 Pixels
	Height	2048 Pixels
Offset Range	Width	0—4095 Pixels
	Height	0—2048 Pixels

5.2 Specification

Electrical Parameters	Input 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	
Packing method	/	

*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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WeChat Official Account Platform

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