



B200S

Sphere 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)	August 1(th), 2025	First release

2 Product Introduction

The B200S is an independent controller featuring two Gigabit Ethernet ports for irregular-shaped displays. It supports up to 1.3 million pixels while delivering powerful processing capabilities that optimize load utilization, perfectly supporting any 2K resolution. Capable of offline brightness adjustment for large screens, it offers robust processing power, ultra-stable performance, and exceptional value.

The B200S is widely applicable in non-rectangular LED displays such as sphere LED screens and circular ring displays.



3 Product Characteristics

- 1 DVI video signal input, synchronously transmitted via Ethernet cable
- 1 AUDIO input, synchronously transmitted via Ethernet cable
- 2 Gigabit Ethernet outputs, supporting vertical/horizontal tiling in any configuration
- 1 USB communication port, enabling control of multiple sending cards from a single PC

- 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 sending card operating parameters and status
- Supports configuration parameter readback
- Supports Gigabit Ethernet error rate detection
- Supports control of various irregular led displays, including sphere and circular, ring screens
- Supports offline brightness adjustment for led screens

4 Product Appearance

Front Panel



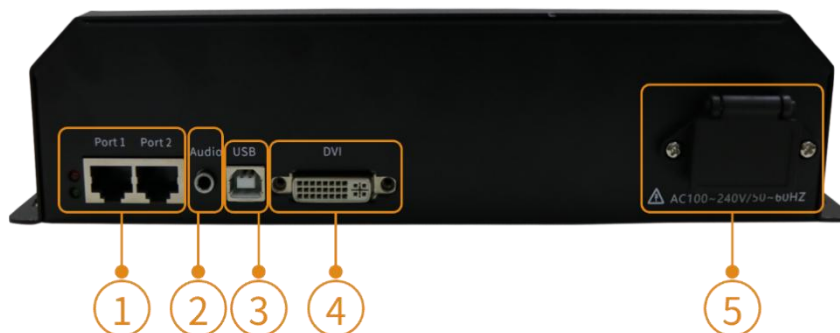
*Product images are for reference only. The actual product shall prevail upon purchase.

4.1 Data Interface Illustration

#	Name	Illustration
1	Switch	Main Control Power Switch
2	LED Display	Brightness Display, showing current brightness value
3	Indicator Light	Main Control Status Indicator
4	100Mbps Ethernet	1×LAN 100Mbps Ethernet Port, Debugging Port
5	Button -	Brightness Decrease Button
	Button +	Brightness Increase Button

Indicator Light Illustration	
Indicator	Illustration
P1、P2	Network Port Indicator: Steady flashing: Gigabit Ethernet signal communication normal Steady on: Gigabit Ethernet signal not connected
DVI	DVI Interface Indicator: Steady on: DVI signal input is normal Steady off: No DVI signal input
USB	USB Port Indicator Light: Steady on: USB cable connected properly Steady off: No USB cable connected
Light	Brightness Indicator: Press and hold the button while it is flashing to adjust brightness
INC	Inspection Indicator

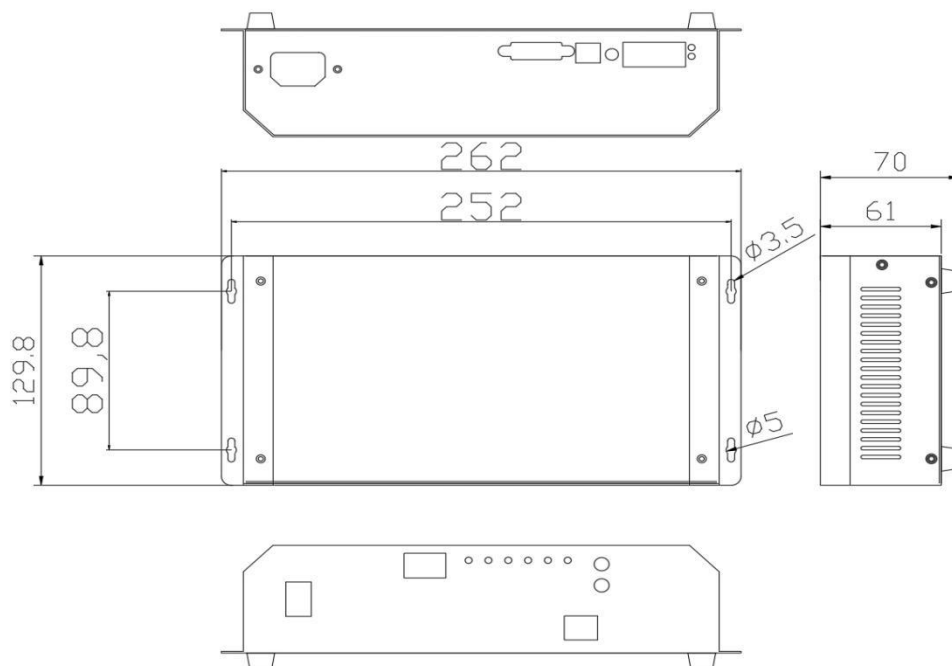
Rear Panel



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Rear Panel Illustration		
Input Interface		
#	Name	Illustration
2	AUDIO	1×3.5mm audio input jack
4	DVI	1×DVI video signal input port, maximum resolution 1920×1200@60Hz
Output Interface		
#	Name	Illustration
1	Gigabit Ethernet port	Port1-Port2 refers to output network ports 1-2 Maximum single-port network load capacity: 650,000 pixels Supports loop backup between network ports
Control Interface		
#	Name	Illustration
3	USB (B-type)	Connect to PC software communication
Power supply interface		
#	Name	Illustration
5	Power interface	AC-100-240V-50/60HZ AC power interface

4.2 Dimensions



Tolerance: ± 0.3 Unit: mm

5 Product Specification

5.1 Basic Parameters

Loading Capacity	Single Ethernet Port	Maximum load capacity: 655,360 pixels Network port load capacity (width × height): 1280 × 512
	Whole unit	1.3 million pixels
Loading Range	Width	128–4096 pixels
	Height	64–2048 pixels
Sphere Loading Limit	Width	4096
	Height	2048
Offset Range	Width	0–4095 pixels
	Height	0–2048 pixels

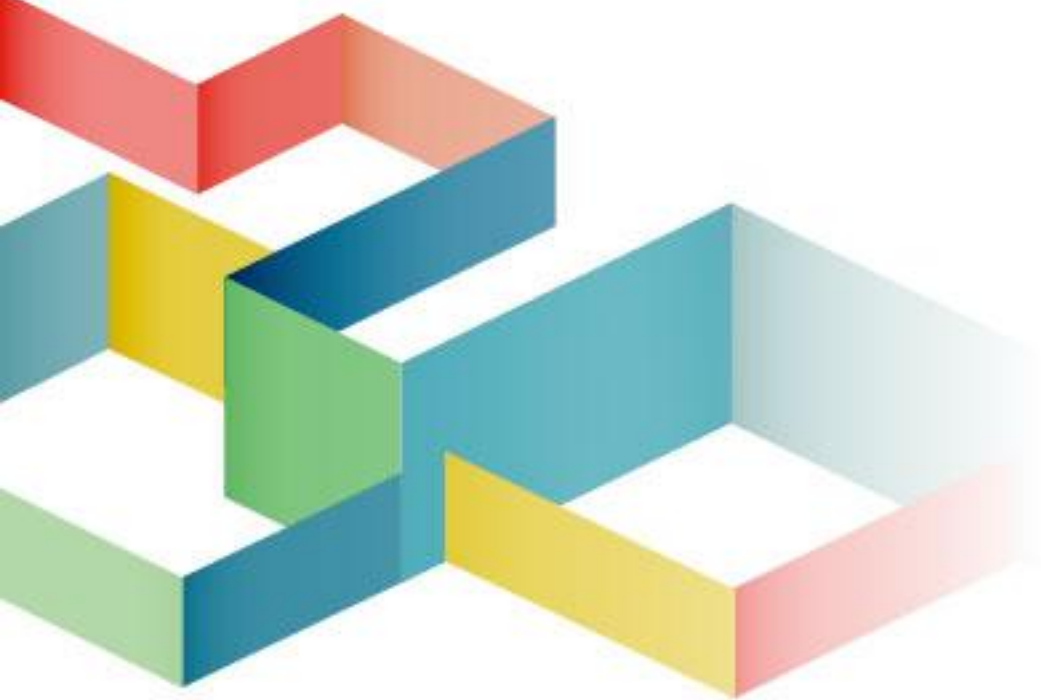
5.2 Specification

Electrical parameters	Rated voltage	AC-100-240V-50/60HZ
	Rated Power	10W
Working environment	Working temperature	-20°C~60°C
	Working humidity	5%RH~85%RH has no condensation.
Storage environment	Temperature	-20°C~70°C
Chassis size	262mm×129.8×70mm	
Net weight	1.1kg	
Outer packing size	300×200×130mmmm	
Gross weight of product	1.85 Kg Description: Including wire, accessories	
Packing mode	1 PCS /box	
Accessory	1 × power cord, 1 × USB cable, 1 × HDMI to DVI cable, 1*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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