

「LT102」

LED Sending Controller

Datasheet

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Foreword

Thank you very much for purchasing our product. Please read this specification sheet carefully before operation.

All pictures in this specification are for reference only, the actual product may vary.

This specification may not correspond exactly to the product or its accessories you purchased. Our company reserves the right to modify any information in this specification at any time, and will regularly update this specification in accordance with product upgrade. Updated content will be added to the new version of this specification without prior notice, please understand.

Icon conventions

	illustrate	Necessary tips, supplements and explanations to help you understand the content described in the specification more clearly.
	Notice	Matters that must be paid attention to and followed during operation will remind you to use the equipment in a more convenient and efficient way.
	Warning	There may be potentially dangerous situations and you are warned to use the equipment safely.

Safety instructions

To ensure personal and equipment safety, when installing, operating, and maintaining equipment, please follow the safety instructions on the equipment and in the manual to ensure optimal equipment performance and avoid dangerous or illegal situations.



warn

- It is strictly prohibited to place the device in an environment with flammable or explosive gases or smoke, and no operations may be performed in such an environment.
- The equipment installation environment is strictly prohibited from water seepage, dripping, and condensation, otherwise dehumidification equipment must be installed.
- When laying lines, strong current lines and weak current lines must be laid separately to avoid mutual interference.
- Keep the equipment away from sources of fire, and do not place containers containing liquids on or near the equipment.
- Please unplug the power plug when there is lightning or when it is not used for a long time.
- It is prohibited to use parts not approved by the manufacturer to avoid damage to the equipment.
- It is prohibited to use control software not issued by the manufacturer to control the equipment.
- It is prohibited to alter, cover, or tear the equipment information labels attached to the equipment.
- If the plug and power cord are damaged or frayed, liquid is spilled into the device, or the device is dropped and damaged, you should unplug the power source immediately and leave it to professionals.
- All maintenance work should be completed by professionals. Unauthorized maintenance is strictly prohibited to avoid equipment damage and risk of electric shock.

**Notice**

- The equipment should work in an environment with good air circulation and suitable temperature and humidity.
 - Please install the device on a stable and stable work surface or in a standard rack, cabinet, or chassis.
 - Do not use any objects to block the ventilation holes of the device, and leave more than 20 cm of heat dissipation space around the device.
 - Please use a single-phase three-wire 100-240V AC power supply with a protective ground, and ensure that the entire engineering system uses the same ground. Do not use a power supply without ground protection, and the ground pin of the power cord cannot be damaged.
 - turning on the device, please make sure that signal cables, communication cables and other wires are well connected and not loose.
 - Before moving the device, please turn off the power of the device and add anti-collision protection to the device to avoid damage to the device due to electric shock, extrusion, bump, scratch, impact, etc.
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1. Introduction

LT series 102- type LED sending controller supports DVI and HDMI input and loop-out, supports 1920 x 1200@60Hz signal capturing, 1.3million pixels load, and can be used with LED receiving cards to achieve ultra-clear LED display.



2. Features

- Supports HDMI and DVI signal capturing and loopout;
- Support 3.5mm AUDIO independent audio input;
- Configured with 2 Gigabit Ethernet outputs, single device supports maximum load of 1.3 million pixels, with a maximum 3840 pixels in the horizontal and 3840 pixels in the vertical;
- Supports cascading of multiple devices to support greater pixels;
- Support video source resolution self-adaptation;
- Supports ultra-low latency, and LED display is real-time and smooth;
- Support independent Gamma adjustment;
- Supports point-by-point chroma calibration;
- Supports hot standby backup to ensure stable operation.
- Supports work with sensors to monitor brightness, temperature, humidity and other status.

3. Appearance

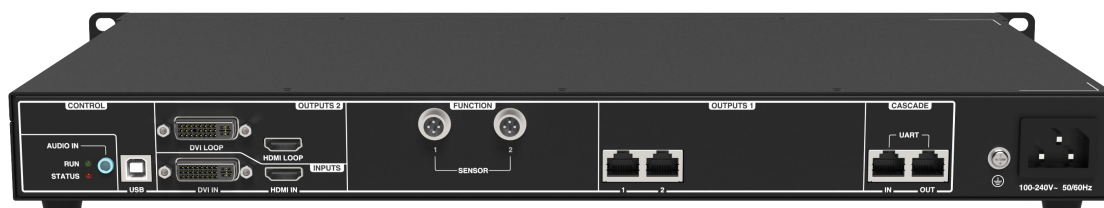
The following is a schematic diagram of the front panel and rear panel of the device. The appearance of the product shall be subject to the actual product.

3.1. Front panel



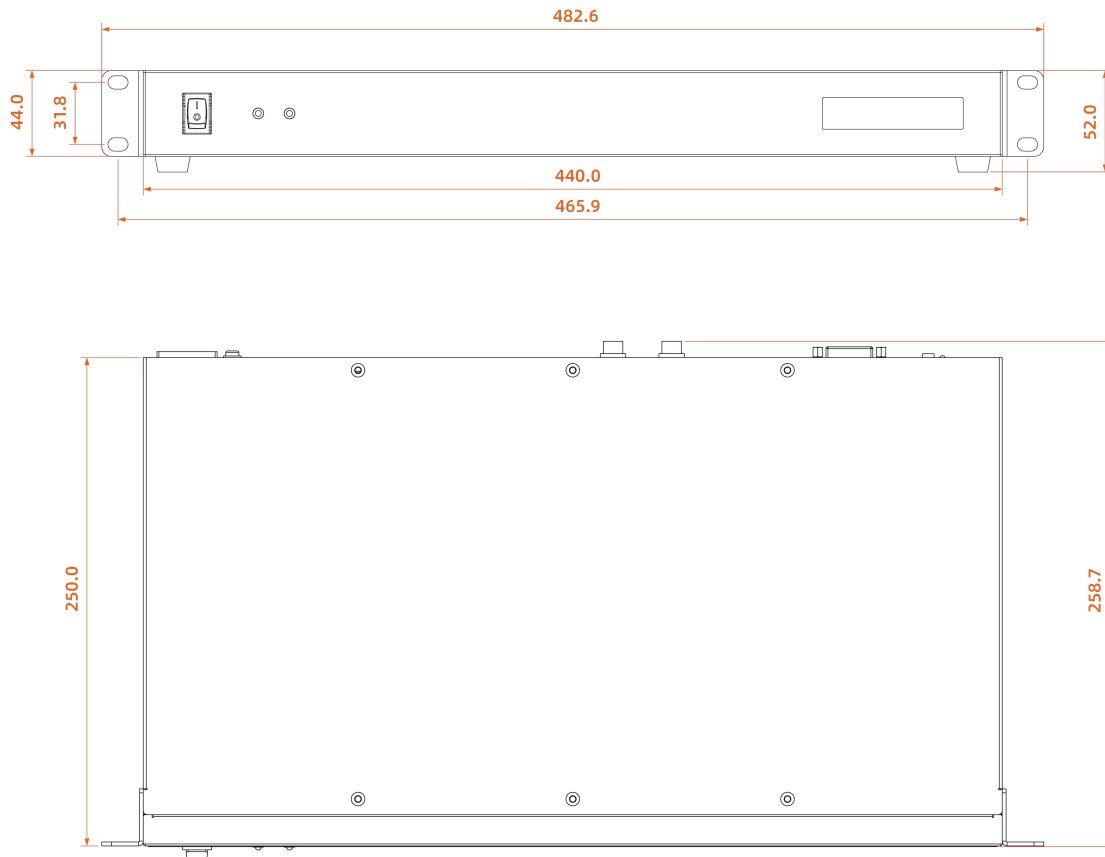
Indicator	Status	Description
RUN (green)	Flash slowly (flash once every 2 seconds)	No video input.
	Normal flashing (4 flashes per second)	There is video input.
STATUS (red)	Always on	The power supply is normal.
	Off	No power or abnormal power supply.
Power	/	Switch button.

3.2. Rear panel



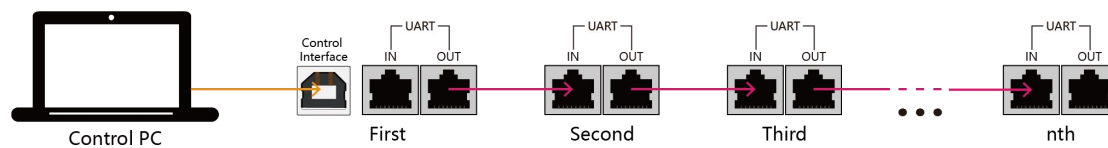
Type	Interface	Description	
Video	HDMI IN	<ul style="list-style-type: none">• HDMI x1, HDMI 1.3 standard, supports signal loop-out• Support HDCP 1.4• The maximum supported resolution is: 1920× 1200 @60Hz• Interlaced signal input is not supported• Support custom resolution Maximum width: 3840 (3840 x 600@60Hz) Maximum height: 3840 (548 x 3840@60Hz)	
	DVI IN	<ul style="list-style-type: none">• DVI interface x1, VESA standard, supports signal loop out• Support HDCP 1.4• The maximum supported resolution is: 1920×1200 @60Hz• Interlaced signal input is not supported• Support custom resolution Maximum width: 3840 (3840 x 600@60Hz) Maximum height: 3840 (548 x 3840@60Hz)	
Audio	AUDIO IN	3.5mm audio x1, independent audio input.	
Output	1 ~ 2	RJ45 x2, 2 Gigabit network outputs, connected to receiving card.	
Functional	SENSOR	2-channels sensor, to monitor brightness, temperature, and humidity.	
Cascade	UART IN/OUT	Cascading input/output.	
Control	USB	USB-B x1, connect to control PC.	
Indicator	RUN (green)	Flash slowly (flash once every 2 seconds)	No video source input.
		Normal flashing (4 flashes per second)	There is video source input.
	STATUS (red)	Always on	The power supply is normal.
		Off	No power supply or abnormal power supply.
Power	AC 100-240V	50/60Hz	

4. Equipment size



5. Cascading

When the size of the LED screen exceeds the loading capacity of a single device, multiple devices can be cascaded for loading. The cascading diagram is shown below.



6. Specifications

Specification	Description		
Electrical	Power supply	AC100-240V	50/60Hz
	Power	6W	
Physical	Size (L x W x H)	482.6mm x 250mm x 44mm (Excluding foot pads and interfaces)	
	Net weight	3kg	
Packaging	Suitcase	540mm x 390mm x 140mm	
	Large outer box	750mm x 560mm x 415mm Note: When fully loaded, each outer box can hold 5 devices.	

7. Application

