

「LT220」

# 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 220- type LED sending controller supports HDMI2.0 input and loop-out, supports 4096x 2160@60Hz signal capturing, 8.8 million pixels load, and can be used with LED receiving cards to achieve ultra-clear LED display.



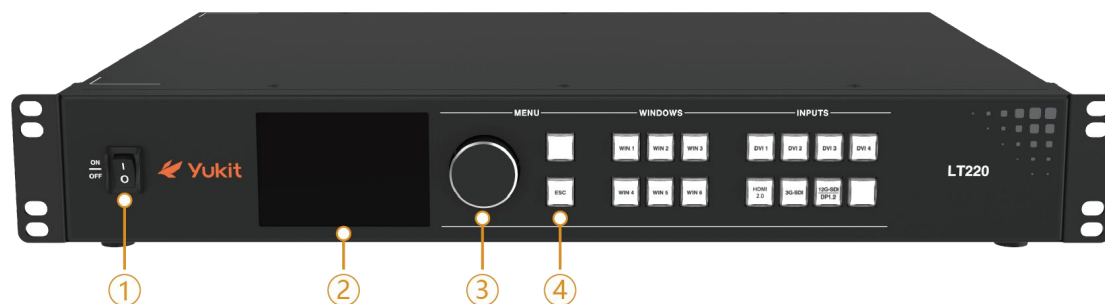
## 2. Features


- Supports HDMI2.0 signal capturing and loopout;
- Support 3.5mm AUDIO independent audio input;
- Configured with 2 Gigabit Ethernet outputs and 4 optical ports, single device supports maximum load of 8.8 million pixels, with a maximum 8188 pixels in the horizontal and 8188 pixels in the vertical;
- Configure 1 HDMI monitoring interface to monitor the LED display screen in real-time;
- 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 back panel of the device. The appearance of the product shall be subject to the actual product.

## 3.1. Front panel



No.	Button	Description
①	Power	Device switch button
②	LCD screen	Displays the current status and menu of the device.
③	Enter	Press to confirm the operation, rotate to select menus and adjust parameters.
④	ESC	Exit the current menu or cancel the current operation.
③&④	key lock	Pressing the "Enter" and "ESC" keys at the same time on any menu interface will lock the front panel keys and jump to the main interface. At this time, all key functions except the power switch are invalid. The lock logo is displayed in the upper right corner of the main interface  . Press again. Click to unlock.
Other buttons		Reserved for future

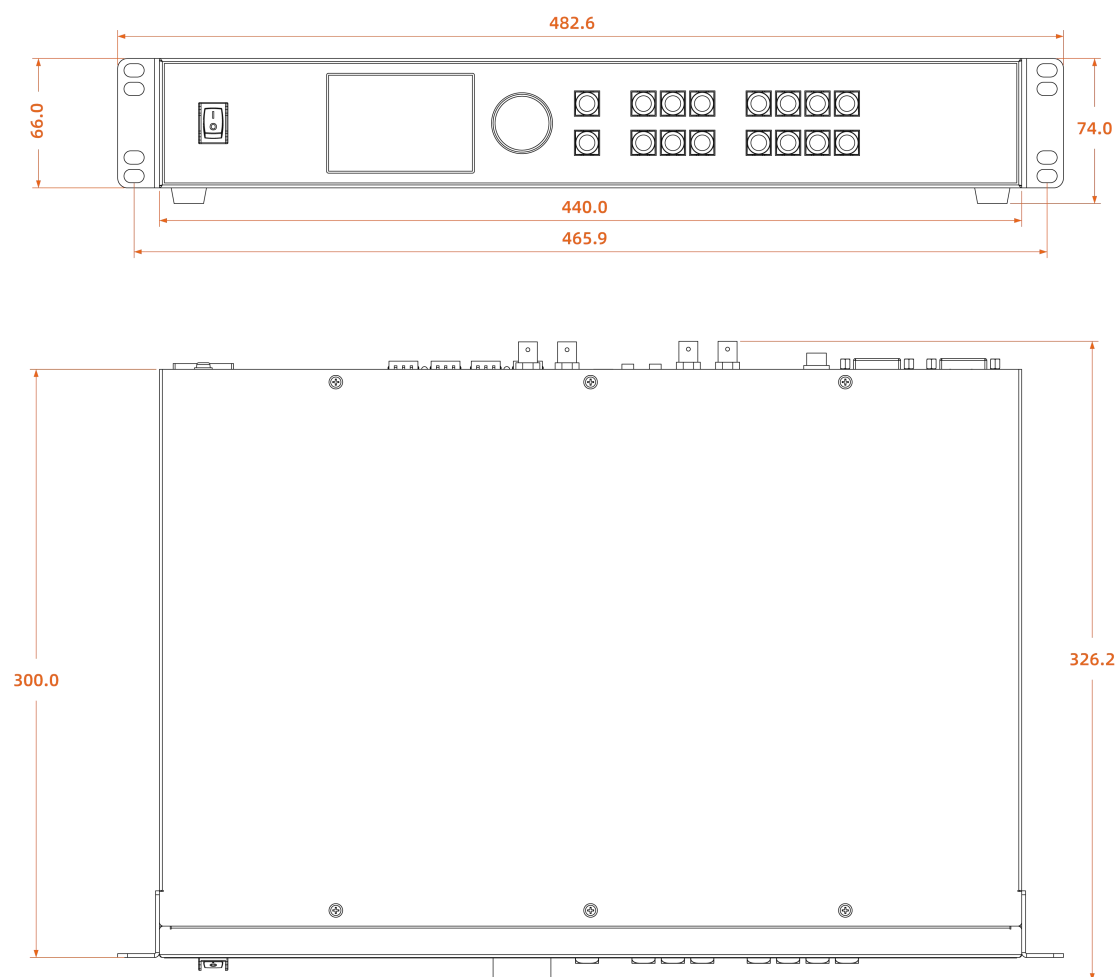
## 3.2. Rear panel



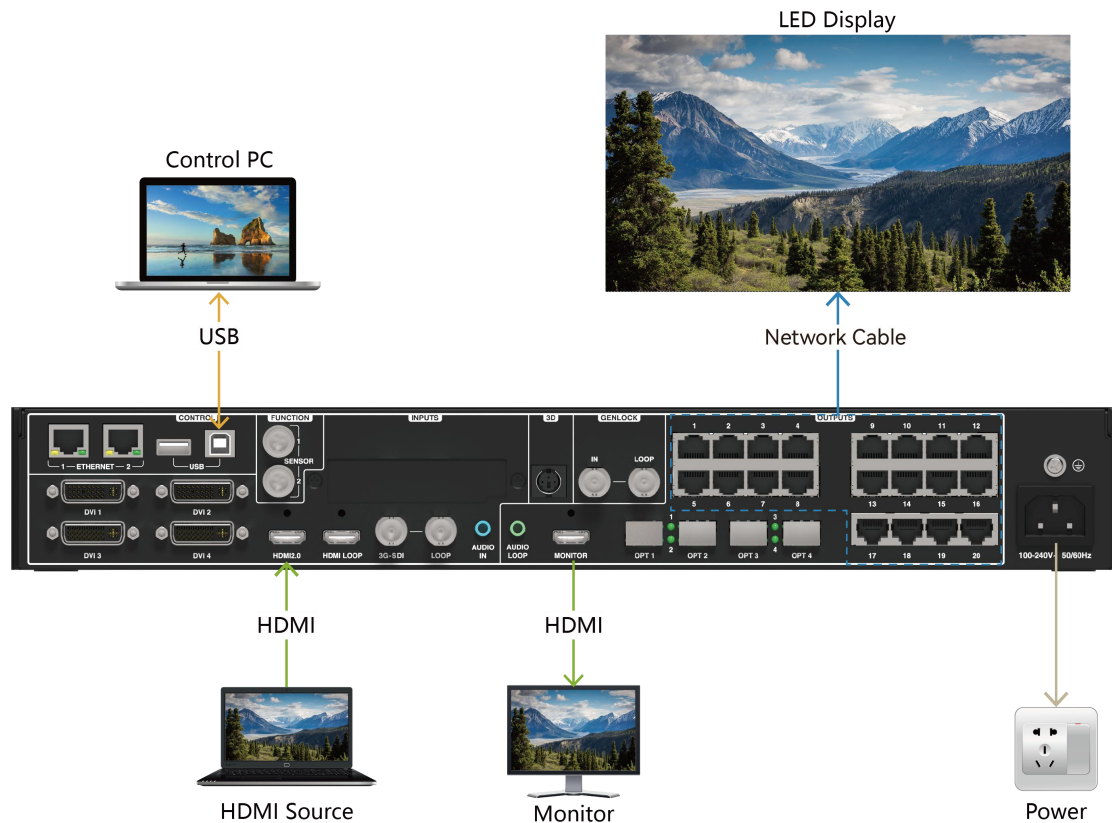
Type	Name	Description
Input	HDMI 2.0	<ul style="list-style-type: none"> <li>HDMI interface x1, HDMI 2.0 standard, supports HDMI2.0 signal loop out</li> <li>Support HDCP 2.2</li> <li>The maximum supported resolution is: 4096 × 2160 @60Hz</li> <li>Support custom resolution</li> </ul>
		Limit width: 8188 Extreme height: 8188 <p>NOTE: Horizontal parameters must be multiples of 4. Including: horizontal total points, horizontal synchronization width, horizontal synchronization leading edge, horizontal synchronization trailing edge, and horizontal effective points.</p>

Type	Interface	Description
Audio	AUDIO IN	3.5 mm audio interface x1, independent audio input.
	AUDIO LOOP	3.5 mm audio interface x1, independent audio loop out.
Output	1 ~ 20	RJ45 x20, 20- channel Gigabit network port output, connected to the receiving card.
	OPT1~4	10G optical port x4, OPT1 transmits data from network ports 1 to 10, OPT2 transmits data from network ports 11 to 20, OPT 3 is the backup channel of O PT1, and OPT 4 is the backup channel of O PT2.
	MONITOR	HDMI interface x1, monitors LED screen with a resolution of 1920 x1080 @60Hz.
Control	ETHERNET 1	Control network port, connect to the control PC.
	ETHERNET 2	Connect to other devices to manage and control the device.
	USB-B	Control interface, connect to the control PC.
	USB-A	Reserved interface
Functional	SENSOR 1~2	2-channel sensor, can be used for brightness, temperature, and humidity monitoring.
	3D	Reserved interface
	GENLOCK	Genlock
Power	AC 100-240V	50/60Hz
Other	Reserved for future upgrades	

## 4. Equipment size



## 5. Application



## 6. Specifications

Specification	Description
Electrical	Power supply AC100-240V 50/60Hz
	Power 45W
Physical	Size (L x W x H) 482.6mm x 300mm x 44mm ( Excluding foot pads and interfaces)
	Net weight 4.8kg
Packaging	Suitcase 540mm x 390mm x 162mm
	Large outer box 565mm x 405mm x 187mm