MCTRL510

Independent Controller



XI'AN NOVASTAR TECH CO., LTD.

Specifications

Product Version: V1.1.0

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Change History

Version	Release Date	Description
V1.1.0	2019-05-15	• Updated document style. • Optimized document content.

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1 Overview

The MCTRL510 is an independent controller. The maximum loading capacity of a single controller is 1920×1200@60Hz. Multiple controllers can be cascaded via RS232 port for uniform control.

The MCTRL510 can be mainly used for the rental and fixed fields, such as concerts, live events, security monitoring centers, Olympic Games and various sports centers.

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2 Features

2.1 Features

- 1 × DVI input
- 1 × audio input
- 1 × DVI output
- 4 × RJ45 Gigabit Ethernet outputs
- 4 × 1.25G optical outputs
- RS232 control port to cascade devices for uniform control
- 1 × communication port with communication rate at 100 Mbps and support for TCP/IP
- Supports resolutions up to 1920×1200@60Hz and downward compatibility.
- Supports the new generation of NovaStar calibration technology.
- Supports input monitoring.
- Supports a variety of video formats, as described in Figure 2-1.

2.2 Video Formats

Figure 2-1 Video formats

Input Connector	Bit Depth	Sampling Format	Maximum Input Resolution
DVI	8-bit	RGB 4:4:4	1920×1200@60Hz

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3 Appearance

3.1 Front Panel



Indicators	
PWR	Power indicator. It is always on after the power is supplied.
RUN	Device operating indicator. Working status: • Flashing slowly: Video input unavailable • Flashing normally: Video input available • Flashing rapidly: The screen is displaying startup image. • Breathing: Ethernet port redundancy has taken effect.
DVI	DVI indicator. Working status: • Always on: DVI input available • Off: DVI input is unavailable or DVI input is abnormal.

3.2 Rear Panel



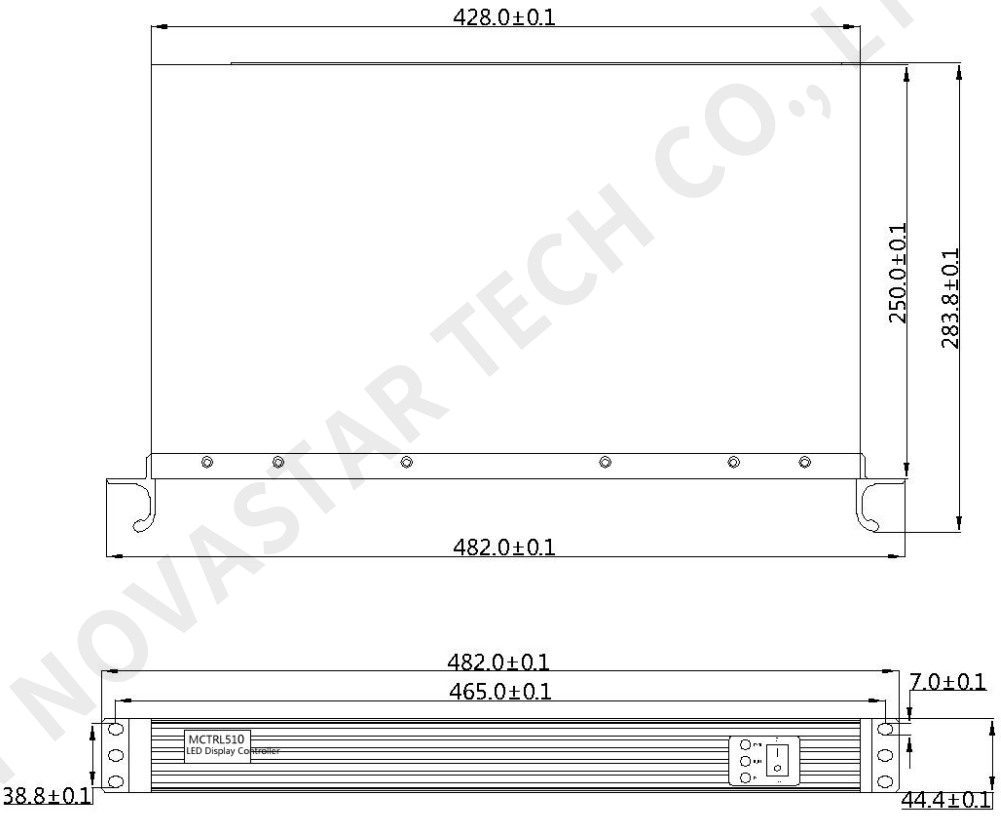
Connector	Connector Name	Description
Input	DVI IN	• Single-link DVI connector • Resolution up to 1920×1200@60Hz and downward compatible • Custom resolutions supported: Resolution with maximum width: 3840×600@60Hz Resolution with maximum height: 800×2560@60Hz

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Connector	Connector Name	Description
	AUDIO	Audio input connector
Output	OUT 1–4	• 4 Gigabit Ethernet ports • Maximum loading capacity of a single Ethernet port: 650,000 pixels • Support redundancy between Ethernet ports.
	OPT 1–4	• 1.25G optical ports – Single-mode twin-core fiber: Support LC optical connectors; wavelength: 1310 nm; transmission distance: 10 km; OS1/OS2 recommended. – Dual-mode twin-core fiber: Support LC optical connectors; wavelength: 850 nm; transmission distance: 300 m; OM3/OM4 recommended. • The four optical ports correspond to the four Ethernet ports, respectively. OPT1 corresponds to OUT1. OPT2 corresponds to OUT2. OPT3 corresponds to OUT3. OPT4 corresponds to OUT4.
	DVI OUT	Single-link DVI output connector
Communication	Fast Ethernet	For data interaction with PC • IP address: 192.168.11.2 • Subnet mask: 255.255.255.0 • Default gateway: 192.168.11.1 • Port: 6000
Control	RS232 IN	Input port for cascading devices
	RS232 OUT	Output port for cascading devices
Power	AC 100V~240V-50/60Hz	

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4 Dimensions



Unit: mm

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5 Specifications

Electrical Parameters	Input voltage	AC 100 V–240 V, 50/60 Hz
	Rated power consumption	10 W
Operating Environment	Temperature	-20°C–60°C
	Humidity	0% RH–90% RH, non-condensing
Dimensions	482.0 mm × 283.8 mm × 44.4 mm	
Net weight	2.9 kg	
Space Requirement	1U	
Packing Information	Each controller is provided with a carrying case, accessory box and packing box. The controller and accessory box (containing controller related wires and accessories) is packed in the carrying case and the carrying case is packed in the packing box.	
	Carrying case	530 mm × 140 mm × 370 mm, craft paper box
	Accessory box	402 mm× 347 mm × 65 mm, craft paper box • 1 × power cord • 1 × USB cable • 1 × DVI cable
	Packing box	550 mm × 440 mm × 175 mm, craft paper box

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