

Introduction

The MCTRL700 is an LED display controller developed by NovaStar. It supports 1x DVI input, 1x HDMI input, 1x audio input, and 6x Ethernet outputs. The maximum loading capacity of a single MCTRL700 is 1920×1200@60Hz.

The MCTRL700 communicates with PC via Type-B USB port. Multiple MCTRL700 units can be cascaded via UART port.

The MCTRL700 can be mainly used in the rental and fixed applications, such as concerts, live events, security monitoring centers, Olympic Games and various sports centers.

Features

- 3x Input connectors
 - 1x SL-DVI (IN-OUT)
 - 1x HDMI 1.3 (IN-OUT)
 - 1x AUDIO
- 6x Gigabit Ethernet outputs
- 1x Type-B USB control port
- 2x UART control ports
- Pixel level brightness and chroma calibration

Used for device cascading. Up to 20 devices can be cascaded.

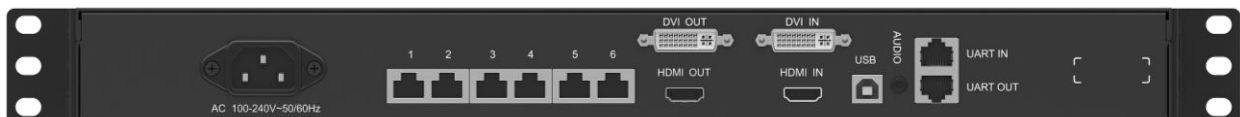
Working with NovaLCT and NovaCLB, the controller supports brightness and chroma calibration on each LED, which can effectively remove color discrepancies and greatly improve LED display brightness and chroma consistency, allowing for better image quality.

Front Panel



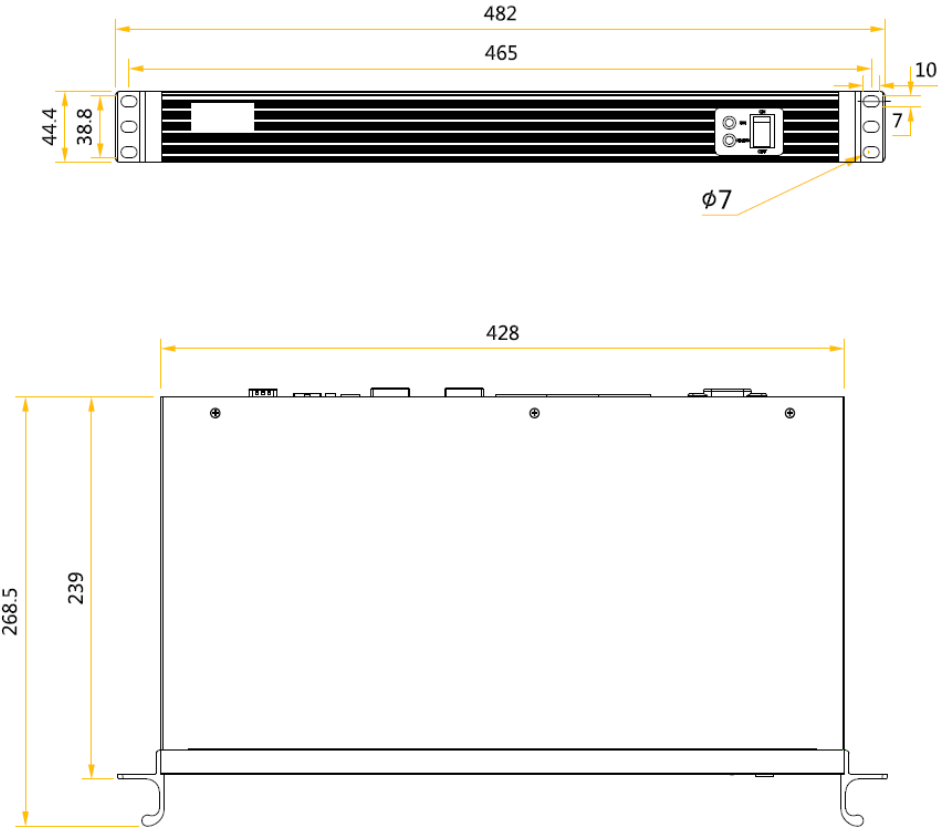
Indicator	Status	Description
RUN (Green)	Slow flashing (flashing once in 2s)	No video input is available.
	Normal flashing (flashing 4 times in 1s)	The video input is available.
	Fast flashing (flashing 30 times in 1s)	The screen is displaying the startup image.
	Breathing	The Ethernet port redundancy has taken effect.
STA (Red)	Always on	The power supply is normal.
	Off	The power is not supplied, or the power supply is abnormal.

Rear Panel



Connector Type	Connector Name	Description
Input	DVI IN	1x SL-DVI input connector - Resolutions up to 1920×1200@60Hz - Custom resolutions supported - Maximum width: 3840 (3840×600@60Hz) - Maximum height: 3840 (548×3840@60Hz) - HDCP 1.4 compliant - DOES NOT support interlaced signal input.
	HDMI IN	1x HDMI 1.3 input connector - Resolutions up to 1920×1200@60Hz - Custom resolutions supported - Maximum width: 3840 (3840×600@60Hz) - Maximum height: 3840 (548×3840@60Hz) - HDCP1.4 compliant - DOES NOT support interlaced signal input.
	AUDIO	Audio input connector
Output	1~6	6x RJ45 Gigabit Ethernet ports - Capacity per port up to 650,000 pixels - Redundancy between Ethernet ports supported
	HDMI OUT	1x HDMI 1.3 output connector for cascading
	DVI OUT	1x SL-DVI output connector for cascading
Control	USB	Type-B USB 2.0 port to connect to PC
	UART IN/OUT	Input and output ports to cascade devices. Up to 20 devices can be cascaded.
Power	AC 100V-240V~50/60Hz	

Dimensions



Tolerance: ± 0.3 Unit: mm

Specifications

Electrical Specifications	Input voltage	AC 100V-240V~50/60Hz
	Rated power consumption	12 W
Operating Environment	Temperature	-20°C to +60°C
	Humidity	10% RH to 90% RH, non-condensing
Physical Specifications	Dimensions	482.0 mm × 268.5 mm × 44.4 mm
	Net weight	2.6 kg Note: It is the weight of a single device only.
	Rackmount	1U
Packing Information	Carrying case	530 mm × 140 mm × 370 mm
	Accessory box	402 mm × 347 mm × 65 mm Accessories: 1x Power cord, 1x USB cable, 1x DVI cable
	Packing box	550 mm × 440 mm × 175 mm
Certifications	FCC, CE, IC	

Video Source Features

Input Connector	Features		
	Bit Depth	Sampling Format	Max. Input Resolution
HDMI 1.3	8bit	RGB 4:4:4	1920×1200@60Hz
Single-link DVI	8bit	RGB 4:4:4	1920×1200@60Hz

FCC Caution

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.