

MCTRL500

Independent Controller



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Change History

| Document Version | Release Date | Description |
|------------------|--------------|---|
| V2.3.1 | 2019-11-13 | Updated the product pictures.Updated the dimensions diagram. |
| V2.3.0 | 2019-05-15 | Updated document style.Optimized document content. |

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Overview

The MCTRL500 is an independent controller of NovaStar. The maximum loading capacity of a single controller is 1920×1200@60Hz. Multiple controllers can be cascaded via RS232 port for uniform control.

The MCTRL500 can be mainly used for the rental and fixed fields, such as concerts, live events, security monitoring centers, Olympic Games and various sports centers.

Peatures

2.1 Features

- 1 x DVI input
- 1 x audio input
- 1 x DVI output
- 4 x RJ45 Gigabit Ethernet outputs
- 4 x 1.25G optical outputs
- RS232 control port to cascade devices for uniform control
- Supports resolutions up to 1920×1200@60Hz and downward compatibility.
- Supports the new generation of NovaStar calibration technology.
- Supports input monitoring.
- Multiple controllers can be cascaded.
- 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 |

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. |

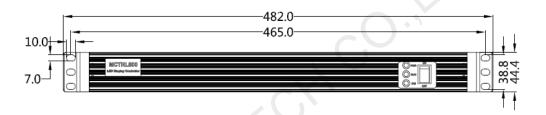
3.2 Rear Panel

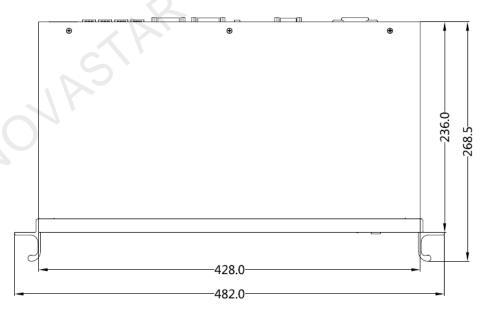


| Connector | Connector Name | Description |
|-----------|-------------------|---|
| Input | DVI IN | Single-link DVI connector Resolution up to 1920×1200@60Hz and downward compatible |
| | | Custom resolutions supported: Resolution with maximum width: 3840×600@60Hz |

| Connector | Connector Name | Description |
|-----------|----------------------|--|
| | | Resolution with maximum height: 800×2560@60Hz |
| | 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 |
| Control | RS232 IN | |
| Control | K3232 IIV | Input port for cascading devices |
| | RS232 OUT | Output port for cascading devices |
| Power | AC 100V~240V-50/60Hz | |

4 Dimensions





Unit: mm

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 |
| Storage Environment | Temperature | -20°C–70°C |
| Physical Specifications | Dimensions | 482.0 mm × 268.5 mm × 44.4 mm |
| | Weight | 2.9 kg |
| | Space Requirement | 1U |
| Packing Information | 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 |
| Certifications | FCC, RoHS, EAC, IC, PFOS, LVD, EMC | |

6 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.