spectra
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# MCTRL660

## Independent Controller



# Specifications

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# 1 Overview

The MCTRL660 is an independent controller of NovaStar. The maximum loading capacity of a single controller is 1920×1200@60Hz. Multiple controllers can be cascaded for uniform control.

The MCTRL660 adopts an innovative architecture to implement smart screen configuration without using a computer, allowing a screen to be configured within 30 seconds. It also allows users to adjust screen brightness manually, which is faster and more convenient.

The MCTRL660 can be mainly used for the rental and fixed fields, such as concerts, live events, security monitoring centers, Olympic Games and various sports centers.

# 2 Features

## 2.1 Features

- 1 × DVI input
- 1 × HDMI input
- 4 × Gigabit Ethernet outputs
- Supports the new generation of NovaStar calibration technology, which is fast and efficient.
- Supports resolutions up to 1920×1200@60Hz.
- Multiple controllers can be cascaded.
- Supports 18-bit grayscale processing and display.
- Manual screen brightness adjustment, which is fast and convenient
- Quick screen configuration without using a computer
- Adopts an innovative architecture to implement smart screen configuration, allowing a screen to be configured within 30 seconds and greatly shortening the stage preparation time
- Adopts NovaStar G4 engine to realize a perfect display image with no flickering or scanning lines, as well as fine quality and good sense of depth
- Supports a variety of video formats, as described in Figure 2-1.

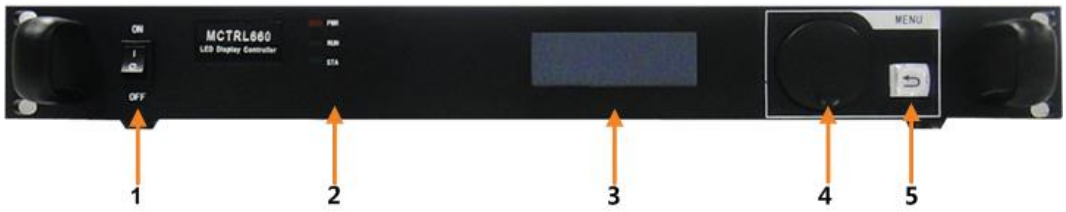
## 2.2 Video Formats

Figure 2-1 Video formats

| Input Connector | Bit Depth | Sampling Format | Maximum Input Resolution |
|---|---|---|---|
| HDMI 1.3 | 8bit | RGB 4:4:4 | 1920×1200@60Hz |
| | 10bit/12bit (Customized) | | 1440×900@60Hz |
| S-DVI | 8bit | | 1920×1200@60Hz |
| | 10bit/12bit (Customized) | | 1440×900@60Hz |

# 3 Appearance

## 3.1 Front Panel



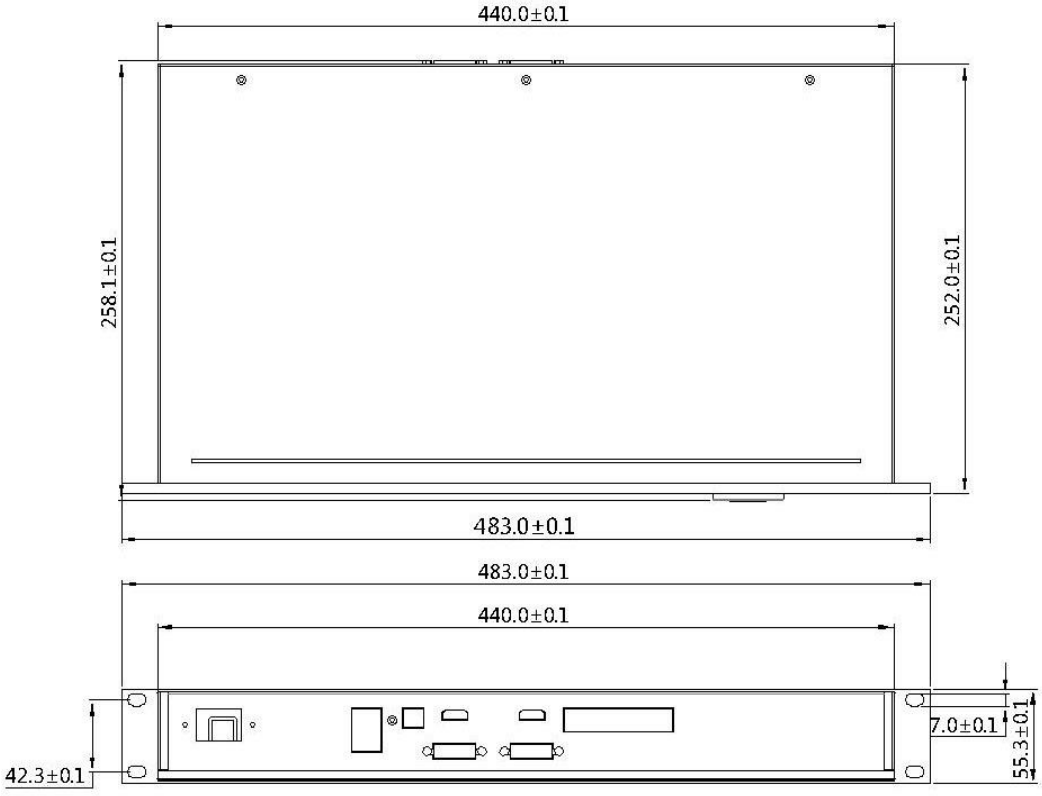

| No. | Name | Description |
|---|---|---|
| 1 | Power switch | ON/OFF |
| 2 | Indicators | **PWR**: Power indicator |
| | | **RUN**: Device operating indicator. Working status:<br>• Flashing slowly: Video input unavailable<br>• Flashing normally: Video input available<br>• Flashing rapidly: The screen is displaying startup image.<br>• Breathing: Ethernet port redundancy has taken effect. |
| | | **STA**: Device operating indicator. Working status:<br>• Always on: The device is operating normally.<br>• Off: The device is not operating, or operating abnormally. |
| 3 | LCD | LCD operation panel |
| 4 | Knob | Operation instructions:<br>• On the home screen, press the knob to enter the menu page.<br>• On the menu page, press the knob to select the current menu or enter the menu. Rotate the knob to select a menu item or adjust a menu parameter.<br>• Hold down the knob and **BACK** button simultaneously for 5 seconds to lock or unlock all the buttons. |
| 5 | BACK | Press to go back to the previous menu or exit the current operation. |

# 3.2 Rear Panel




| Connector | Connector Name | Description |
|---|---|---|
| Input | DVI IN | • Single-link DVI input, with a maximum resolution of 1920×1200@60Hz.<br>• Custom resolution supported<br>Resolution limit with maximum width: 3840×600@60Hz<br>Resolution limit with maximum height: 800×3840@60Hz |
| | AUDIO | Audio input connector |
| | HDMI IN | • HDMI 1.3 input, with a maximum resolution of 1920×1200@60Hz.<br>• HDCP 1.4 compliant<br>• Custom resolution supported<br>Resolution limit with maximum width: 3840×600@60Hz<br>Resolution limit with maximum height: 800×2560@60Hz |
| Output | RJ45 × 4 | • 4 × Gigabit Ethernet outputs<br>• Maximum loading capacity of each Ethernet port: 650,000 pixels<br>• Support redundancy between Ethernet ports. |
| Control | TO PC | Type-B USB port for connecting to PC |
| | UART IN | Input port for cascading devices |
| | UART OUT | Output port for cascading devices. Up to 20 controllers can be cascaded. |
| 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 |
| Dimensions | 483.0 mm × 258.1 mm × 55.3 mm | |
| Space Requirement | 1.25U | |
| Net Weight | 3.6 kg | |
| Certifications | CB, RoHS, EAC, FCC, UL/CUL, LVD, EMC, KC, CCC, PSE | |
| Packing Information | Each controller is provided with a carrying case, accessory box and packing box.<br>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 ×370mm ×140 mm, kraft paper box printed with **NOVASTAR** |
| | Accessory box | 402 mm× 347 mm × 65 mm, kraft paper box<br>• 1 × power cord<br>• 1 × USB cable<br>• 1 × DVI cable |
| | Packing box | 550 mm × 440 mm × 175 mm, kraft paper box printed with **NOVASTAR** |

# 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.