



MCTRL660 PRO

Video Processors



#MCTRL660PRO

The MCTRL660 PRO is a professional controller developed by NovaStar. A single MCTRL660 PRO has a loading capacity of up to 1920×1200@60Hz. It supports custom resolutions with the width up to 3840 pixels and height up to 2560 pixels, which meets configuration requirement of ultra-large screens.

Applications

- Rental and fixed fields: Concerts
- Live events
- Security monitoring centers
- Olympic Games
- Various sports centers

Power supply

100 V–240 V AC

Power switch

ON/OFF



Input

DVI IN

Single-link DVI connector.
Custom resolutions supported:
Maximum width: 3840 pixels
Maximum height: 2560 pixels
Supported standard resolutions:
1024x768@(24/30/48/50/60/72/75/85/100/120)Hz
1280x1024@(24/30/48/50/60/72/75/85)Hz
1366x768@(24/30/48/50/60/72/75/85/100)Hz
1440x900@(24/30/48/50/60/72/75/85)Hz
1600x1200@(24/30/48/50/60)Hz
1920x1080@(24/30/48/50/60)Hz
1920x1200@(24/30/48/50/60)Hz
2560x960@(24/30/48/50)Hz
2560x1600@(24/30)Hz

HDMI IN

HDMI 1.4a compliant.
HDCP 1.4 compliant.
Custom resolutions supported:
Maximum width: 3840 pixels
Maximum height: 2560 pixels
Supported standard resolutions:
1024x768@(24/30/48/50/60/72/75/85/100/120)Hz
1280x1024@(24/30/48/50/60/72/75/85)Hz
1366x768@(24/30/48/50/60/72/75/85/100)Hz
1440x900@(24/30/48/50/60/72/75/85)Hz
1600x1200@(24/30/48/50/60)Hz
1920x1080@(24/30/48/50/60)Hz
1920x1200@(24/30/48/50/60)Hz
2560x960@(24/30/48/50)Hz
2560x1600@(24/30)Hz

3G-SDI IN

SMPTE ST 425-1 Level A & B, SMPTE ST 274, ST 296, ST 295 compliant
Maximum supported input resolution:
1920x1080@60Hz
Note: 3G-SDI input sources do not support input resolution and color depth settings.

Output

6x RJ45

6 Gigabit Ethernet ports
Maximum loading capacity of a single Ethernet port:
For 8-bit input sources: 650,000 pixels
For 10-bit/12-bit input sources: 320,000 pixels
Support redundancy between Ethernet ports.

OPT1 /OPT2

10G 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 maximum loading capacity of a single optical port equals to that of all the 6 Ethernet ports.
2 OPT inputs/outputs
The OPT1 works as the primary input or output port, and the 6 Gigabit Ethernet ports work as the corresponding output or input ports.
The OPT2 works as the backup input or output port of OPT1.
In the sending card mode, both OPT ports and 6 Gigabit Ethernet ports can work as output ports to output the same image.
In the fiber converter mode, when the OPT ports work as the input ports, the 6 Gigabit Ethernet ports work as output ports. When the 6 Gigabit Ethernet ports work as input ports, the OPT ports work as output ports.

DVI LOOP

DVI loop output

HDMI LOOP

HDMI loop output.
Support HDCP 1.3 loop output encryption.

3G-SDI LOOP

SDI loop output

Monitor

HDMI

Connect to a monitor to monitor the inputs. The output resolution of this connector is 1920×1080@60Hz (fixed output with a width of 1920 pixels and height of 1080 pixels).
If the input resolution exceeds the monitor resolution, the input will be automatically scaled in proportion and then displayed on the monitor starting from its top left.

Control

GENLOCK IN

GENLOCK input connector.
Genlock type: Blackburst.
Input Genlock sync signal to ensure synchronization and same refresh rate between the output signals of cascaded MCTRL660 PRO units and the external Genlock input signal.



GENLOCK LOOP

Genlock loop output connector.
Up to 8 MCTRL660 PRO units can be cascaded.

ETHERNET

Fast Ethernet port, which connects to PC and supports TCP/IP.

USB IN

Input port for cascading devices, or connecting to PC.

USB OUT

Output port for cascading devices.
Up to 8 MCTRL660 PRO units can be cascaded.

Certifications

