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Model: MCTRL660 Pro

1. PRODUCT OVERVIEW

The Novastar MCTRL660 Pro is a professional LED display controller designed for high-performance video processing and control. It supports a wide range of resolutions and offers advanced features for managing large LED screens. This controller is ideal for applications requiring precise control and high-quality visual output.

Key Features:

- High loading capacity up to 1920×1200@60Hz.
- Customizable resolutions for ultra-large screen configurations.
- Multiple input interfaces including HDMI, DVI, 3G SDI, and HDBaseT.
- Multiple Ethernet output ports for connecting to LED receiving cards.
- USB control for configuration and firmware updates.
- Genlock input for synchronization.

2. SAFETY INFORMATION

Please read and understand all safety precautions before operating the device to prevent injury or damage.

- Ensure the power supply voltage matches the device requirements (AC 100-240V, 50/60Hz).
- Do not expose the device to rain or moisture.
- Do not block ventilation openings. Ensure proper airflow around the unit.
- Avoid placing the device near heat sources or in direct sunlight.
- Only use accessories specified by the manufacturer.
- Refer all servicing to qualified service personnel.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Novastar MCTRL660 Pro Controller (x1)
- Power Cable (x1)
- USB Cable (x1)
- User Manual (this document)

4. DEVICE LAYOUT

Familiarize yourself with the various ports and controls on the MCTRL660 Pro.

Front Panel:

The front panel features the power button, a control knob for navigation, 'BACK' and 'INPUT' selection buttons, and a USB port for configuration and firmware updates.

Rear Panel:



This image displays the Novastar MCTRL660 Pro controller, showing both its front and rear panels. The front panel features a power button, navigation controls, and a USB port. The rear panel is equipped with various input and output connectors including Ethernet, USB, Genlock, HDBaseT, 3G SDI, HDMI, DVI, and multiple Ethernet output ports, along with the power input.

- **ETHERNET CONTROL:** RJ45 port for PC control and configuration.
- **USB IN/OUT:** USB Type-B port for connecting to a computer for control and a Type-A port for cascading multiple units.
- **GENLOCK LOOP:** BNC connectors for external synchronization input and loop-through.
- **HDBaseT:** RJ45 input for long-distance video transmission.
- **3G SDI IN/LOOP:** BNC connectors for 3G-SDI video input and loop-through.
- **HDMI-IN/LOOP:** HDMI ports for video input and loop-through.
- **DVI-IN/LOOP:** DVI ports for video input and loop-through.
- **MONITOR HDMI:** HDMI output for monitoring the input source.
- **OPT1/OPT2:** Optical fiber input ports.
- **OUTPUT (1-6):** Six Ethernet output ports for connecting to LED receiving cards.
- **POWER:** AC 100-240V, 50/60Hz power input with ON/OFF switch.

5. SETUP

Follow these steps for initial setup of your MCTRL660 Pro:

1. **Unpack and Inspect:** Carefully remove the MCTRL660 Pro from its packaging and inspect for any signs of damage.
2. **Placement:** Place the controller on a stable, flat surface or mount it in a standard 19-inch rack. Ensure adequate ventilation

space around the unit.

3. **Connect Power:** Connect the provided power cable to the AC power input on the rear panel and then to a suitable power outlet. Ensure the power switch is in the 'OFF' position before connecting.
4. **Connect Input Source:** Connect your video source (e.g., computer, media player) to one of the input ports (HDMI, DVI, 3G SDI, HDBaseT) on the rear panel.
5. **Connect LED Display:** Connect the Ethernet output ports (OUTPUT 1-6) on the rear panel to the receiving cards of your LED display using standard Ethernet cables.
6. **Connect Control PC (Optional):** For advanced configuration and control, connect a PC to the ETHERNET CONTROL port or the USB IN port using the appropriate cable.
7. **Power On:** Flip the power switch on the rear panel to the 'ON' position. The device will power on and the front panel display will illuminate.

6. OPERATING INSTRUCTIONS

This section provides basic instructions for operating the MCTRL660 Pro.

Input Selection:

- Use the 'INPUT' button on the front panel to cycle through available input sources.
- The front panel display will show the currently selected input.

Screen Configuration:

For detailed screen configuration, including resolution settings, screen mapping, and brightness adjustments, it is recommended to use the Novastar control software on a connected PC. Refer to the software's user guide for comprehensive instructions.

Firmware Updates:

Firmware updates can be performed via the USB port on the front panel. Download the latest firmware from the official Novastar website and follow the provided update instructions.

7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your MCTRL660 Pro.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or aerosols.
- **Ventilation:** Regularly check that the ventilation openings are clear of dust and debris to prevent overheating.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place, away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
No power	Power cable not connected; Power switch off; Power outlet issue.	Ensure power cable is securely connected; Turn power switch ON; Test power outlet with another device.
No display output	Incorrect input selected; Output cables loose; LED display not configured.	Select correct input source; Check all Ethernet output cables; Configure LED display using Novastar software.
Image distortion/flickering	Resolution mismatch; Cable quality; Interference.	Adjust output resolution to match display; Use high-quality cables; Check for sources of electromagnetic interference.
Control software not connecting	Incorrect network settings; USB cable issue; Driver not installed.	Verify IP settings (if using Ethernet); Try a different USB cable; Install necessary drivers for the control software.

9. SPECIFICATIONS

Technical specifications for the Novastar MCTRL660 Pro.

Feature	Detail
Manufacturer	Novastar
Model Number	MCTRL660 Pro
Loading Capacity	Up to 1920×1200@60Hz
Item Weight	15.92 pounds
Package Dimensions	22.4 x 16.9 x 6.4 inches
Number of Items	1
ASIN	B07QKFRQSF
First Available Date	April 12, 2019

10. WARRANTY AND SUPPORT

Novastar products typically come with a limited manufacturer's warranty. Please refer to the warranty card included with your product or visit the official Novastar website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or service inquiries, please contact Novastar customer support through their official website or authorized distributors. Ensure you have your product model number and purchase information ready when contacting support.