

Novastar MX40 Pro

NovaStar MX40 Pro All-in-one LED Display Controller / Video Processor User Manual

Model: MX40 Pro

Brand: Novastar

INTRODUCTION

The NovaStar MX40 Pro is a flagship 4K LED display controller and video processor, part of the new generation COEX series. This device is designed for professional LED display applications, offering robust video input capabilities and extensive output options. It integrates seamlessly with the Vision Management Platform (VMP) software for enhanced control and operational efficiency.

This manual provides essential information for the proper setup, operation, and maintenance of your MX40 Pro unit. Please read it thoroughly before use to ensure optimal performance and longevity of the device.

PRODUCT OVERVIEW



Figure 1: Front Panel of MX40 Pro. This image shows the front panel of the NovaStar MX40 Pro, featuring the display screen, control knob, and various indicators and ports for user interaction and monitoring.



Figure 2: Rear Panel of MX40 Pro. This image displays the rear panel of the NovaStar MX40 Pro, highlighting the extensive array of input and output ports, including HDMI, DP, SDI, and 20 Ethernet outputs, along with power input and control connections.

Key Features:

- 3x HDMI 2.0 inputs (with loop through)
- 1x DisplayPort (DP) 1.2 input
- 1x 12G SDI input (with loop through)
- 20 Ethernet outputs for LED display connectivity
- Compatibility with Vision Management Platform (VMP) software
- Advanced 4K video processing capabilities

SETUP GUIDE

1. Unpacking and Inspection

Carefully remove the MX40 Pro from its packaging. Inspect the unit for any signs of physical damage that may have occurred during transit. Retain all packaging materials for future transport or storage.

2. Rack Mounting (Optional)

The MX40 Pro is designed for standard 19-inch rack mounting. Secure the unit using appropriate rack screws. Ensure adequate ventilation around the unit to prevent overheating.

3. Power Connection

Connect the provided power cable to the AC power input on the rear panel of the MX40 Pro. Plug the other end into a grounded power outlet (100-240V AC, 50/60Hz). Ensure the power switch is in the OFF position before connecting.

4. Input Source Connection

Connect your video sources (e.g., media players, computers) to the appropriate input ports on the rear panel:

- **HDMI 2.0:** For high-resolution digital video and audio.
- **DisplayPort 1.2:** For high-bandwidth digital video.
- **12G SDI:** For professional broadcast-grade video signals.

5. LED Display Output Connection

Connect the Ethernet cables from the 20 Ethernet output ports on the MX40 Pro to your LED display receiving cards. Ensure correct mapping and cabling according to your LED display configuration.

6. Network Connection (Optional)

For remote control and configuration via the Vision Management Platform (VMP) software, connect an Ethernet cable from the MX40 Pro's control Ethernet port to your network switch or directly to a computer.

OPERATING INSTRUCTIONS

1. Powering On/Off

To power on the unit, flip the power switch on the rear panel to the ON position. The front panel display will illuminate, indicating the boot-up process. To power off, flip the switch to the OFF position.

2. Front Panel Operation

The MX40 Pro features a front panel display and a control knob for direct operation:

- **Control Knob:** Rotate to navigate menus and adjust parameters. Press to confirm selections.
- **BACK Button:** Press to return to the previous menu or cancel an operation.
- **Display Screen:** Shows current status, input/output information, and menu options.

3. Input Source Selection

From the front panel menu, navigate to the "Input" section. Select the desired video input source (e.g., HDMI 1, DP, SDI) that is connected to your display content.

4. Output Configuration

Configure the output resolution and mapping settings to match your LED display's specifications. This can be done via the front panel or more comprehensively using the VMP software.

5. Using Vision Management Platform (VMP) Software

For advanced control, configuration, and monitoring, install the NovaStar Vision Management Platform (VMP) software on a connected computer. The VMP software provides a graphical interface for managing multiple devices, creating display configurations, and performing detailed adjustments. Refer to the VMP software user manual for detailed instructions on its features and operation.

MAINTENANCE

1. Cleaning

Regularly clean the exterior of the MX40 Pro with a soft, dry cloth. Do not use liquid cleaners or aerosols, as they may damage the unit. Ensure ventilation openings are free from dust and debris.

2. Firmware Updates

Periodically check the NovaStar official website for firmware updates. Keeping the firmware up-to-date ensures optimal performance, new features, and bug fixes. Follow the provided instructions carefully when performing firmware updates.

3. Environmental Conditions

Operate the MX40 Pro within its specified environmental conditions (temperature, humidity) to prevent damage and ensure stable operation. Avoid exposing the unit to extreme temperatures, direct sunlight, or high humidity.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power cable disconnected; Power switch off; Power outlet issue.	Check power cable connection; Ensure power switch is ON; Test power outlet with another device.

Problem	Possible Cause	Solution
No video output on LED display	Incorrect input source selected; Output resolution mismatch; Ethernet cable issues; LED display configuration error.	Verify input source selection; Adjust output resolution; Check Ethernet cable connections; Review LED display receiving card settings.
VMP software cannot connect to MX40 Pro	Network cable disconnected; Incorrect IP address settings; Firewall blocking connection.	Ensure network cable is connected; Verify IP address settings on both MX40 Pro and computer; Temporarily disable firewall for testing.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact NovaStar technical support for assistance.

SPECIFICATIONS

Feature	Detail
Model	MX40 Pro
Brand	Novastar
Video Inputs	3x HDMI 2.0 (with loop through), 1x DP 1.2, 1x 12G SDI (with loop through)
Ethernet Outputs	20
Dimensions (Package)	23.75 x 23.25 x 9.5 inches
Item Weight	24 pounds
Display Type	LED
UPC	760488879986

WARRANTY AND SUPPORT

Warranty Information

The NovaStar MX40 Pro comes with a standard manufacturer's warranty. For specific terms and conditions, including warranty period and coverage details, please refer to the warranty card included with your product or visit the official NovaStar website. Keep your proof of purchase for warranty claims.

Technical Support

For technical assistance, product inquiries, or troubleshooting beyond the scope of this manual, please contact NovaStar customer support. Contact information can typically be found on the official NovaStar website or on the product packaging.

When contacting support, please have your product model (MX40 Pro) and serial number ready to expedite the process.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question