Mctrlvp VX2000 Pro

Mctrlvp VX2000 Pro LED Video Processor User Manual

Model: VX2000 Pro

1. Introduction

The Mctrlvp VX2000 Pro is an all-in-one controller that integrates video processing and video control functionalities into a single device. It is equipped with 20 Ethernet ports and supports three working modes: video controller, fiber converter, and ByPass. This device is capable of managing up to 13 million pixels, with a maximum output width of 16,384 pixels and a height of 8,192 pixels, making it suitable for controlling ultra-wide and ultra-high LED screens.

The VX2000 Pro offers robust video signal reception and processing, supporting a maximum resolution of 4K×2K@60Hz for video input. It handles multiple video signal inputs and includes advanced features such as 12 layers, output scaling, low latency, and pixel-level brightness and chroma calibration to ensure outstanding image display quality.

2. Key Features

- **Integrated Control:** Combines video processing and video control in one unit.
- **High Pixel Capacity:** Manages up to 13 million pixels.
- **Flexible Output:** Supports maximum output of 16,384 pixels wide and 8,192 pixels high.
- **Multiple Working Modes:** Functions as a video controller, fiber converter, or ByPass device.
- **Advanced Input Support:** Handles video input up to 4K×2K@60Hz.
- **Comprehensive Connectivity:** Features 20 Gigabit Ethernet ports and 4 Fiber outputs.
- **Image Enhancement:** Includes 12 layers, output scaling, low latency, and pixel-level brightness and chroma calibration.
- **Diverse Control Options:** Operable via front panel knob, NovaLCT software, Unico web interface, and VICP app.
- **USB Playback:** Supports instant plug-and-play convenience for media playback.
- **Reliability:** Data saving after power failure and end-to-end backup design ensure stable operation.

3. Setup

3.1 Unboxing and Initial Inspection

Carefully remove the VX2000 Pro from its packaging. Inspect the device for any signs of physical damage that may have occurred during shipping. Ensure all accessories listed in the packing list are present.



Figure 3.1: The VX2000 Pro packaging box, indicating safe transport and branding.

3.2 Connecting the Device

Before connecting, ensure the device is powered off. Connect the necessary input sources (e.g., HDMI, OPT) to the corresponding input ports on the rear panel. Connect the Ethernet output ports to your LED display modules. For control, connect an Ethernet cable from your computer to the control Ethernet port.



Figure 3.2: Rear panel of the VX2000 Pro, displaying various input (HDMI, OPT, Audio, Genlock) and output (Ethernet, Fiber) ports, along with control interfaces (Ethernet, USB, RS232) and power input.

3.3 Powering On

After all connections are securely made, connect the power cable to the VX2000 Pro and a suitable power outlet. Flip the power switch on the rear panel to the 'ON' position. The device will initiate its startup sequence.

4. Operation

4.1 Front Panel Controls

The front panel provides direct access to essential functions and settings. It includes a display screen, a rotary knob for navigation and selection, and various buttons for source selection, layer management, and function access.



Figure 4.1: Front panel of the VX2000 Pro, showing the display screen, rotary knob, source selection buttons, and layer/function control buttons.



Figure 4.2: Angled view of the VX2000 Pro with its front panel display active, illustrating the user interface for configuration and monitoring.

4.2 Working Modes

The VX2000 Pro operates in three distinct modes:

- **Video Controller Mode:** Standard operation for processing and sending video signals to LED screens.
- **Fiber Converter Mode:** Converts electrical signals to optical signals for long-distance transmission via fiber optic cables.
- **ByPass Mode:** Allows signals to pass through with minimal processing, useful for specific system configurations.

4.3 Input and Output Management

Utilize the front panel or software to select input sources, configure output resolutions, and manage display layers. The device supports various input types including HDMI and OPT. Output is primarily via the 20 Gigabit Ethernet ports and 4 Fiber outputs.

4.4 Software Control

For advanced configuration and remote control, the VX2000 Pro can be managed using NovaLCT software, the Unico web interface, or the VICP app. These platforms offer comprehensive control over settings, pixel mapping, and display adjustments.

5. Maintenance

5.1 Cleaning

To ensure optimal performance and longevity, regularly clean the exterior of the VX2000 Pro with a soft, dry cloth. Avoid using liquid cleaners or abrasive materials that could damage the finish or internal components. Ensure ventilation openings are free from dust and obstructions.

5.2 Firmware Updates

Periodically check the manufacturer's official website for available firmware updates. Keeping the device's firmware up-to-date ensures access to the latest features, performance improvements, and bug fixes. Follow the provided instructions carefully when performing firmware updates.

6. Troubleshooting

This section addresses common issues you might encounter with the VX2000 Pro.

- **No Power:**
  - Ensure the power cable is securely connected to both the device and a working power outlet.
  - Check the power switch on the rear panel is in the 'ON' position.
  - Verify the power outlet is functional.
- **No Signal on LED Screen:**
  - Confirm input sources are correctly connected and active.
  - Check Ethernet output cables are securely connected to the LED modules.
  - Verify the correct input source is selected on the VX2000 Pro.
  - Ensure the LED screen configuration (resolution, mapping) matches the VX2000 Pro output settings.
- **Image Distortion or Flickering:**
  - Check cable connections for looseness or damage.
  - Ensure input signal resolution and refresh rate are compatible with the VX2000 Pro and the LED screen.
  - Perform pixel-level brightness and chroma calibration if available.
- **Software Connection Issues:**
  - Verify the Ethernet control cable is connected.
  - Ensure network settings (IP address) on your computer are correctly configured to communicate with the VX2000 Pro.
  - Disable any firewalls that might be blocking communication.

7. Specifications

Feature	Detail
Model	VX2000 Pro
Pixel Capacity	Up to 13 Million Pixels
Max Output Width	16,384 pixels
Max Output Height	8,192 pixels
Input Resolution Support	Up to 4K×2K@60Hz
Ethernet Ports	20x Gigabit Ethernet ports
Fiber Outputs	4x Fiber outputs

Feature	Detail
Working Modes	Video Controller, Fiber Converter, ByPass
Control Options	Front panel knob, NovaLCT, Unico web, VICP app
Product Dimensions	11.81 x 17.72 x 1.57 inches
Manufacturer	NOVA STAR
ASIN	B0FJWSXT5

8. Warranty and Support

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official Mctrlvp/NOVA STAR website. Support resources typically include FAQs, troubleshooting guides, and contact information for customer service.

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