Novastar TU15PRO

Novastar TU15PRO LED Vision Controller User Manual

Model: TU15PRO

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Novastar TU15PRO LED Vision Controller. Please read this manual thoroughly before using the device to ensure proper and safe operation. The TU15PRO is designed for controlling LED displays, offering robust performance and versatile connectivity.

2. SAFETY INFORMATION

- **Power Supply:** Use only the specified power adapter (AC100-240V 50/60Hz). Ensure the power source is stable and matches the device's requirements.

- **Environment:** Operate the device in a dry, well-ventilated area. Avoid exposure to extreme temperatures, humidity, dust, or direct sunlight.

- **Handling:** Do not drop, disassemble, or modify the device. Refer all servicing to qualified personnel.

- **Cables:** Ensure all cables are securely connected. Avoid placing heavy objects on cables or bending them sharply.

- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth. Do not use liquid or aerosol cleaners.

3. PACKAGE CONTENTS

Please check the package contents upon unboxing. If any items are missing or damaged, contact your vendor immediately.

- Novastar TU15PRO LED Vision Controller
- Power Adapter
- USB Cable

- User Manual (this document)

4. PRODUCT OVERVIEW

The Novastar TU15PRO is a compact and powerful LED vision controller designed for various display applications. It features multiple input and output ports for flexible connectivity.

Figure 4.1: Angled view of the Novastar TU15PRO LED Vision Controller, highlighting the rear panel with various input and output ports.

Figure 4.2: Top-down view of the Novastar TU15PRO, showing the front panel with power button and USB port, and a detailed view of the rear panel connections.

4.1. Front Panel

- **Power Button:** Used to turn the device on or off.
- **USB 2.0 Port:** For connecting USB devices, such as a mouse or keyboard for control, or for firmware updates.

4.2. Rear Panel

- **WIFI-AP (1, 2):** Wi-Fi Access Point antennas for wireless control or network extension.
- **WIFI-STA:** Wi-Fi Station antenna for connecting the device to an existing Wi-Fi network.
- **SENSOR:** Port for connecting an external sensor.
- **IR / I/O G RELAY:** Input/Output General Purpose Relay terminal block for external control signals.
- **ETHERNET:** Ethernet port for network connection and control.
- **USB 2.0 (x2):** Additional USB ports for peripherals or data transfer.
- **HDMI IN (x2):** HDMI input ports for video sources.
- **HDMI OUT:** HDMI output port for monitoring or cascading.
- **SPDIF:** Digital audio output.
- **AUDIO 12V === 3A:** Power input port (DC 12V, 3A).

5. SETUP

1. **Unpack:** Carefully remove the TU15PRO controller from its packaging.
2. **Connect Antennas:** Attach the Wi-Fi antennas to the WIFI-AP and WIFI-STA ports on the rear panel.
3. **Connect Video Source:** Connect your video source (e.g., computer, media player) to one of the **HDMI IN** ports using an HDMI cable.
4. **Connect to LED Display:** Connect the controller's Network Ports (1-4) to your LED display receiving cards using Ethernet cables.
5. **Connect Power:** Connect the provided power adapter to the **AUDIO 12V === 3A** port and then plug it into a power outlet.

6. **Power On:** Press the power button on the front panel to turn on the device.

7. **Network Configuration (Optional):** For network control, connect an Ethernet cable to the **ETHERNET** port or configure Wi-Fi settings.

6. OPERATING INSTRUCTIONS

Once the device is set up, you can begin operating it. Detailed operation typically involves using dedicated software on a connected computer or through a web interface.

- **Software Installation:** Install the Novastar control software on your computer. Refer to the software's documentation for installation and usage.

- **Device Recognition:** Ensure the software recognizes the TU15PRO controller. This may require network configuration or direct USB connection.

- **Screen Configuration:** Configure your LED screen parameters within the software, including resolution, cabinet layout, and connection method.

- **Input Source Selection:** Select the desired HDMI input source within the control software.

- **Display Content:** Use the software to manage and display content on your LED screen.

7. MAINTENANCE

- **Regular Cleaning:** Keep the device free from dust. Use a soft, dry cloth to wipe the exterior. Do not use harsh chemicals or abrasive materials.

- **Ventilation:** Ensure the ventilation openings are not blocked to prevent overheating.

- **Firmware Updates:** Periodically check the Novastar official website for firmware updates to ensure optimal performance and access to new features. Follow the update instructions carefully.

- **Cable Management:** Keep cables organized and free from kinks or damage to prevent signal loss or power issues.

8. TROUBLESHOOTING

- **No Power:**

  - Check if the power adapter is securely connected to both the device and the power outlet.
  - Verify the power outlet is functional.

- **No Display Output:**

  - Ensure HDMI input source is active and correctly connected.
  - Verify Ethernet cables to the LED display are properly connected.
  - Check screen configuration in the control software.

- **Device Not Recognized by Software:**

  - Confirm network settings (IP address, subnet mask) are correct if using Ethernet.
  - Ensure USB cable is connected if using direct USB control.
  - Temporarily disable firewall or antivirus software to check for interference.

- **Intermittent Signal:**

- Check all cable connections for looseness or damage.
- Ensure cables are of appropriate quality and length for the signal type.

9. SPECIFICATIONS

Feature	Description
Brand	Novastar
Model	TU15PRO
Input Power	AC100-240V 50/60Hz
Body Size (L×W×H)	211.7mm × 185.0mm × 50.6mm
Control Dots	2,600,000
Output LAN	Network Port × 4
Max Output Width	4096 pixels
Max Output Height	1920 pixels
ASIN	B0D791C3C7

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Novastar website or contact your authorized dealer. Keep your purchase receipt as proof of purchase for warranty claims.
Online Resources: For the latest drivers, software, and additional documentation, please visit the official Novastar support page.