

Novastar VX6S

Novastar VX6S All-in-1 Controller/Video Processor User Manual

This manual provides comprehensive instructions for the setup, operation, and maintenance of your Novastar VX6S All-in-1 Controller/Video Processor. Please read thoroughly before use.

1. INTRODUCTION

The Novastar VX6S is an advanced all-in-one video controller designed to integrate sending card functions with powerful video processing capabilities. It is engineered to provide flexible screen control and outstanding video presentations for various applications.

Key features include:

- Supports 7 video input connectors: 2 × 3G-SDI, 2 × HDMI1.3, 2 × DVI, 1 × USB.
- Equipped with 6 Gigabit Ethernet outputs.
- Based on a powerful FPGA processing platform.
- Supports multiple switching effects, such as quick seamless switching and fade.
- Supports 3 × layers and 1 × OSD (On-Screen Display).

2. PRODUCT OVERVIEW

The VX6S unit features a robust design suitable for professional environments. Below are images illustrating the device's front and rear panels, highlighting its various ports and controls.



Figure 2.1: Front view of the Novastar VX6S All-in-1 Controller/Video Processor. It shows the display screen, control knob, input selection buttons, and function buttons.



Figure 2.2: Rear view of the Novastar VX6S, displaying the various input ports (USB, Ethernet, SDI, DVI, HDMI) and output ports (DVI, HDMI, Ethernet outputs 1-6), along with the power input.



Figure 2.3: The Novastar VX6S unit shown alongside its included power cables and network cables, indicating a complete package for immediate setup.

3. SETUP

Follow these steps to properly set up your Novastar VX6S controller:

1. **Unpacking:** Carefully remove the VX6S unit and all accessories from the packaging. Verify that all components listed in the packing list are present.
2. **Placement:** Place the VX6S on a stable, flat surface or install it into a standard 19-inch rack. Ensure adequate ventilation around the unit to prevent overheating.
3. **Power Connection:** Connect the provided power cable to the AC IN port on the rear panel of the VX6S and then to a suitable power outlet (AC100-240V~50/60Hz).
4. **Input Source Connection:** Connect your video sources (e.g., cameras, computers, media players) to the desired input ports on the VX6S rear panel. The VX6S supports 3G-SDI, HDMI1.3, DVI, and USB inputs.
5. **Output Display Connection:** Connect your LED display screens or other output devices to the Gigabit Ethernet output ports (1-6) on the rear panel. Ensure proper cabling for stable signal transmission.
6. **Control Connection (Optional):** For remote control or configuration via software, connect a USB or Ethernet cable from the VX6S control port to your computer.
7. **Power On:** Once all connections are secure, press the power button on the front panel to turn on the VX6S. The display screen will illuminate, indicating the unit is starting up.

4. OPERATING INSTRUCTIONS

The Novastar VX6S offers intuitive controls for managing your video presentations. Familiarize yourself with the front panel controls:

- **Display Screen:** Shows current status, menu options, and settings.
- **Control Knob:** Used for navigating menus and adjusting parameters. Press to confirm selections.
- **MENU Button:** Accesses the main menu for system settings, input/output configurations, and advanced features.
- **ESC Button:** Exits the current menu or cancels an operation.
- **Input Buttons:** Dedicated buttons for selecting active video inputs (HDMI, DVI, SDI, USB).
- **Function Buttons (FN, U-DISK, TAKE):** Provide quick access to specific functions like USB playback or immediate switching.

Basic Operation:

1. **Input Selection:** Press the corresponding input button (e.g., **HDMI 1**) to switch the active video source. The VX6S supports seamless switching between inputs.
2. **Layer Management:** The VX6S supports up to 3 layers. Navigate to the "Layer" menu using the control knob to configure layer size, position, and priority.
3. **OSD Control:** The On-Screen Display (OSD) can be enabled or disabled via the menu. Use it to display text or graphics over your video output.
4. **Output Configuration:** Adjust output resolution and refresh rates through the "Output" menu to match your display requirements.
5. **Saving Presets:** Configure your desired input, layer, and output settings, then save them as a preset for quick recall.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Novastar VX6S.

- **Cleaning:** Regularly clean the exterior of the unit with a soft, dry cloth. Do not use liquid cleaners or aerosols directly on the device.
- **Ventilation:** Ensure that the ventilation openings are clear of dust and obstructions. Blocked vents can lead to overheating.
- **Environment:** Operate the VX6S in a clean, dry environment within the recommended temperature and humidity ranges. Avoid extreme temperatures or direct sunlight.
- **Firmware Updates:** Periodically check the official Novastar website for firmware updates. Keeping the firmware updated can improve performance and add new features.
- **Cable Management:** Ensure all cables are securely connected and neatly organized to prevent accidental disconnections or damage.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your VX6S controller.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No display on screen.	Power issue, incorrect input selection, faulty cable, display off.	Check power connection to VX6S and display. Ensure correct input is selected on VX6S. Verify video cables are securely connected and not damaged. Confirm display is powered on and set to correct input.
Image flickering or distorted.	Cable issue, resolution mismatch, signal interference.	Replace video cables with high-quality, shielded ones. Adjust output resolution on VX6S to match display's native resolution. Check for sources of electromagnetic interference.
Cannot control VX6S via network.	Network cable issue, incorrect IP settings, firewall.	Verify Ethernet cable connection. Check IP address settings on VX6S and controlling computer. Temporarily disable firewall on computer to test connectivity.

7. SPECIFICATIONS

Detailed technical specifications for the Novastar VX6S All-in-1 Controller/Video Processor:

- **Model Number:** VX6S
- **Brand:** Novastar
- **Input Connectors:** 2 × 3G-SDI, 2 × HDMI1.3, 2 × DVI, 1 × USB (Total 7 inputs)
- **Output Connectors:** 6 × Gigabit Ethernet ports, DVI Out, HDMI Out
- **Layers Supported:** 3 × layers
- **OSD Support:** 1 × OSD
- **Dimensions (L x W x H):** Approximately 21.65 x 15.75 x 7.87 inches (55 x 40 x 20 cm)
- **Item Weight:** Approximately 11.53 pounds (5.23 kg)
- **Connectivity Technology:** USB, Ethernet, HDMI
- **Compatible Devices:** LED screens using Novastar system
- **Color:** Black
- **Special Features:** Low Light capability

8. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included with your product purchase or visit the official Novastar website. Warranty terms and conditions may vary by region and retailer.

For technical support, troubleshooting assistance beyond this manual, or service inquiries, please contact Novastar customer support through their official website or authorized service centers. Keep your product model number (VX6S) and purchase details ready when contacting support.

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