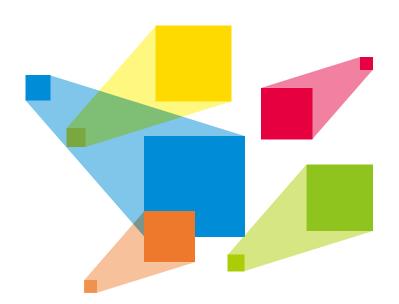


NovaPro UHD All-in-One Controller

V1.0.0 NS160000303



Quick Start Guide

Introduction

The NovaPro UHD is a new alti-none controller developed by NovaStar. By integrating video processing, video control and LED screen configuration functions into one controller, this product is capable of receiving a variety of video signals, processing and sending images of resolutions up to ultra HD 4K-2K@60Hz.

With the built-in Master VI smart platform, the NovaPro UHD supports layer creation, property settings, and screen configuration via simple mouse, keyboard, and monitor operations.

The NovaPro UHD supports sending of processed video to LED display through Neutrik Ethernet ports or fiber optical connectors. With powerful video processing and sending capabilities, this product is well suited for high end rental applications, stage control systems, and fine-pitch LED displays.





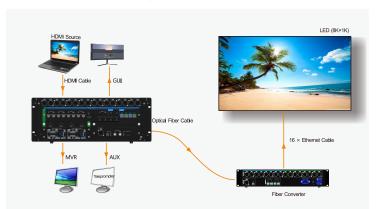
Supports ST-2082-1 (12G), ST-2081-1 (6G), ST-424 (3G) and ST-292 12G-SDI (HD) input signals. Input resolutions up to 4K×2K@60Hz and downward compatible Supports 12G-SDI loop output Input resolution up to 4K×2K@60Hz (8K×1K@60Hz) and downward compatible, HDCP 1.3 compliant DP 1.2 Does not support interlaced signal inputs Input resolution up to 4K×2K@60Hz (8K×1K@60Hz) and HDMI 2.0 downward compatible, HDCP 1.4 and HDCP 2.2 compliant, loop output Does not support interlaced signal inputs. 4 × HDMI 1.3: Each with resolution up to 1920×1080@60Hz Can be changed to D 4 × DVI input card HDMI 1.3 The default option is D 4 × HDMI input card Supports HDCP 1.3 Supports interlaced signal inputs Ethernet port Neutrik Gigabit Ethernet outputs 4 × 10G fiber optical output connectors with copy and hot backup modes OPT 1 transmits data of Ethernet ports 1–8 OPT 1-4 OPT 2 transmits data of Ethernet ports 9–16 OPT 3 is the copy/hot backup channel for OPT 1 OPT 4 is the copy/hot backup channel for OPT 2 HDMI 1.3 connector, used as monitoring connector of MultiViewer MVR to monitor input source, PVM, PGM or perform mixed preview HDMI 1.3 connector, used as auxiliary output connector for AUX connecting an auxiliary device, such as a teleprompter ETHERNET Connect to the PC for communication or connect to the network. 1 × USB-B: Connect to the PC for device debugging. 2 × USB-A: Insert a USB drive to perform system update. Connect a mouse or keyboard. Output connector for device cascading. GENLOCK Connect a synchronization signal source to synchronize the IN-LOOP cascaded devices. CONTROL UI Connect to a monitor for human-machine interaction.

Applications

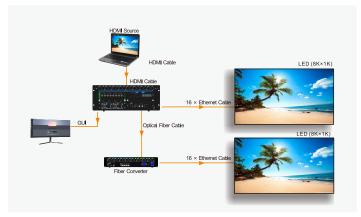
NovaPro UHD unit for image mosaic



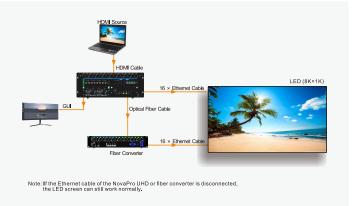
Remote Transmission - 1 NovaPro UHD unit only



Remote Transmission - 1 NovaPro UHD unit for copy output mode



Remote Transmission - 1 NovaPro UHD unit for hot backup output mode



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Basic operations of the NovaPro UHD includes configuring screens, adding layers and selecting input sources.

Quick Configuration

Preconditions

- · LED screen must be a regular screen.
- Cabinets of the screen must be regular cabinets with the same resolution.
- The flowing data flow settings are supported. During data flow settings, you must ensure that the physical connection of each port is along the same direction and downward to next one.



 During data flow settings, you must ensure that the Ethernet Port 1 is at the beginning position of the whole physical connection.

Procedure

- Step 1 Power on the LED screen.
- Step 2 On the home screen, press the knob to enter the main menu screen. Then rotate the knob to choose Screen Settings > Quick Configuration to enter the quick configuration
- Step 3 Set Cabinet Row Qty and Cabinet Column Qty according to the actual row and column quantities of the cabinets.



Step 4 Rotate the knob to select Port 1 Cabinet Qty to set the quantity of the cabinets loaded by Ethernet port 1.



The quantities of the cabinets loaded by Ethernet ports 1-15 must be the same. The quantity of the cabinets loaded by Ethernet port 16 should be no greater than that loaded by Ethernet ports 1-15. The quantity of cabinets loaded by each Ethernet port must be an integer multiple of Cabinet Row Qty or Cabinet Column Qty of the screen.

- Step 5 Rotate the knob to select Data Flow (Front View) and press it, then select an appropriate physical connection mode of the cabinets.
 - During data flow settings, you can view the real-time effects of different data flow settings on LED display by rotating the knob. When you are satisfied with the LED display image, press the knob to save the settings; when you are not satisfied, press ESC button to exit the current operation and the settings will not be saved.
- Step 6 Press ESC button to exit the quick configuration screen.
- Step 7 Rotate the knob to select Save to RV Card and press the knob to send and save the screen configuration file to the hardware.

Adding Layers

- Step 1 Rotate the knob to choose Layer Settings > Layer > Select Layer > Layer 1 to add the current laver.
- Step 2 Rotate the knob to choose Status > On to enable the layer 1.
- Step 3 Rotate the knob to select Input Source and select the desired input source based on your actual needs.



After a layer is added successfully, the size and input source of the layer on the LED screen are shown in below.



Preset Settings

The NovaPro UHD supports 16 presets. You can save the current layer layout to a preset and load the preset as needed.

- Step 1 Rotate the knob to choose Preset Settings > Preset 1. Then the Preset window
- Step 2 Rotate the knob to select Save, Load, Clear and Copy To.

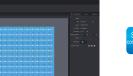






You can use the embedded Master VI by connecting the GUI connector on the device rear panel or installing the software on your PC.







Display sizes and names of the

· Click a screen to enter its Screen

of currently connected devices.

 Click a device to enter its Layer function page.

_ - - - - - - - - - - - -Display names and serial numbers

configured screens.

function page.



On the Edit tab page, select the Ethernet ports under Device.

- ☐ Choose Edit > Cabinet Management and add a single cabinet or a batch of cabinets to the edit area.
- □ Choose Edit > Cabinet Connection to connect the added cabinets.
- ☐ Click the **Send** button on the tool bar to send current configurations to the receiving card.
- ☐ Click the Save to HW button on the tool bar to save current configurations to the receiving card.







- Perform layer configurations for video sources.
- Click an input source and drag it to the edit area to add its corresponding layer. Drag the layer corner to resize it.
- ☐ Change the layer parameters on the right properties pane, such as cropping and mask.
- ☐ Click the **Take** button or move the T-bar to send the PVW images to the screen.



Overall Specifications		
Connector	Qty	Description
Power connector	2	100-240V~,50/60Hz, 7.2A-3.5A, Dual power supply design
Power consumption		180 W
Operating temperature		-10°C - 60°C
Operating humidify		0% RH - 80% RH
Storage humidity		0%RH - 95%RH
Dimensions		4U standard chassis
Net weight		21 kg

