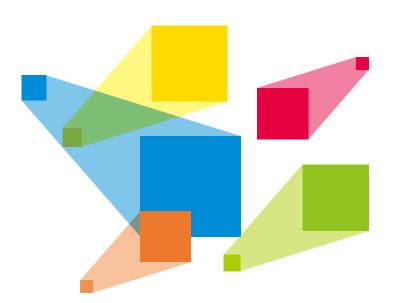


NovaPro UHD Jr

All-in-One Controller



Quick Start Guide

Introduction

The NovaPro UHD Jr is NovaStar's all-in-one controller that integrates video processing with sending

The NovaPro UHD Jr features multiple input connectors, supporting up to 8 inputs simultaneously, and multiple output connectors, including 16 Ethernet ports and 4 optical fiber ports. Thanks to 4K×2K@60Hz ultra high-definition inputs and outputs, 8K×1K@60Hz ultra-high resolution settings, excellent video signal processing capabilities and large loading capacity, the NovaPro UHD Jr is well suited for stage control systems, conference sites, activities, exhibition sites and other high-end rental applications as well as fine-pitch LED displays.





	200	8			
input					
	Qty	Description			
DVI	4	- Four DVIs are all single-link DVI connectors by default. Each DVI: Input resolution up to 1920x1200@60Hz, downward compatible Four single-link DVI input sources constitute one input source (DVI MOSAIC). In dual-link mode, DVI 1 and DVI 3 are dual-link DVI connectors while DVI 2 and DVI 4 are unavailable. DVI 1/DVI 3: Input resolution up to 3840×1080@60Hz, downward compatible Maximum resolution supported: Max. width: 2048. Max. height: 2048			

Input resolution up to 4096×2160@60Hz, downward compatible, loop output Maximum resolution supported: Max. width: 8192. Max. height: 8192 Input resolution up to 3840×2160@60Hz, downward compatible,

DP 1.2 HDCP 1.3 compliant Maximum resolution supported: Max. width: 8192. Max. height: 8192 Input resolution up to 3840×2160@60Hz, downward compatible, HDMI 2.0 loop output, HDCP 2.2 and EDID management

Maximum resolution supported: Max. width: 8192. Max. height: 8192

16 × Neutrik Gigabit Ethernet output connectors, allowing for a Ethernet port loading capacity up to 10,400,000 pixels Maximum resolution supported: Max. width: 16K, Max. height: 8K

device control.

for image mosaic

 4x 10G optical connectors The OPT function varies depending on the device working OPT 1-4

 Video controller mode - OPT 1 and OPT 2 are for input. - OPT 3 and OPT 4 are for output and offer two OPT modes: Hot

Backup and Copy. Fiber converter mode - OPT 1, 2, 3 and 4 are for input, and the Ethernet ports are for

- OPT 1 and OPT 2 serve as primary input ports. - OPT 3 and OPT 4 serve as backup input ports.

Connect to the PC for communication, or to the Web for

Used as the input connector to connect a NovaPro UHD Jr unit

Used as the output connector to connect a NovaPro UHD Jr unit

Connect to a synchronization signal to synchronize all the

Connect to the PC for device control.

connected NovaPro UHD Jr units.

Connect to the control device.

HDMI connector for output monitoring MONITOR Resolution up to 1920×1080@60Hz

ETHERNET

USB-B

USB-A

GENLOCK

IN-LOOP

12G-SDI

	· · · · · · · · · · · · · · · · · · ·
DIAL DA DA DA DA DA COMPANIA DA DA DA COMPANIA DA DA DA COMPANIA DA DA COMPANIA DA COMPAN	120-2477-XXXXX-XXXXXX-XXXXXXXXXXXXXXXXXXXXX
<u>^</u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

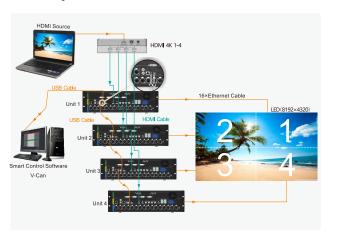
7	3B7	-	
	Qty	Description	
DVI	4	- Four DVIs are all single-link DVI connectors by default. Each DVI: Input resolution up to 1920x1200@60Hz, downward compatible Four single-link DVI input sources constitute one input source (DVI MOSAIC) In dual-link mode, DVI 1 and DVI 3 are dual-link DVI connectors while DVI 2 and DVI 4 are unavailable. DVI 1/DVI 3: Input resolution up to 3840×1080@60Hz, downward compatible Maximum resolution supported: Max. width: 2048. Max. height: 2048	

Applications

1 NovaPro UHD Jr unit for image mosaic



4 NovaPro UHD Jr units for image mosaic



DVI MOSAIC - 1 × input source: 3840×2160@60Hz



DVI MOSAIC - 4 × input source: 1920×1080@60Hz



Operations

Basic operations of the NovaPro UHD Jr 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 following 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.

产生中产生

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

cedure

- 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 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.
- 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.

Iding Lavers

— Toll-Free 24-Hour Hotline—

400-696-0755

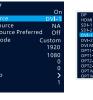
Building 2, NovaStar Tech Park, No. 1699, Yunshui

Xi'an NovaStar Tech Co., Ltd. www.novastar.tech

3rd Road, Xi'an, Shaanxi, China

- Step 1 Rotate the knob to select Main Layer > Status > On to add the main layer. The main layer
- Step 2 Rotate the knob to select **Input Source** and select the desired input source based on your actual needs.



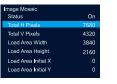


ing data flow settings, you must ensure that the Ethern ne whole physical connection.

Image Mosaic

When 4 NovaPro UHD Jr units are used together for image mosaic, the total pixels of the LED screen are 7680×4320.



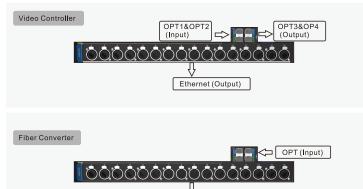


No.	Load Area Width	Load Area Height	Load Area Initial X	Load Area Initial Y
NovaPro UHD Jr 1	3840	2160	3840	0
NovaPro UHD Jr 2	3840	2160	0	0
NovaPro UHD Jr 3	3840	2160	0	2160
NovaPro UHD Jr 4	3840	2160	3840	2160

Working Mode

The NovaPro UHD Jr can work as a video controller (default) or fiber converter.

- Video Controller: Ethernet ports, OPT 3 and OPT 4 are for output. OPT 3 and OPT4 back up/copy the data
 of Ethernet ports 1~8 and 9~16 respectively.
- Fiber Converter: Optical fiber connectors are used for input, while Ethernet ports are used for output.



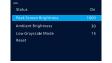
Ethernet (Output)

Advanced Functions

R

HDR function can realize smoother gradations, finer details and richer color density for the image, bringing you a more vivid and real visual experience.





Adjusting Ambient Brightness, Peak Screen Brightness and Low Grayscale Mode can achieve the best HDR effect.

Note

Current HDR function of the device only supports HDR10 input source.

When HDR function is enabled, the output loading capacity will be reduced by 50%.

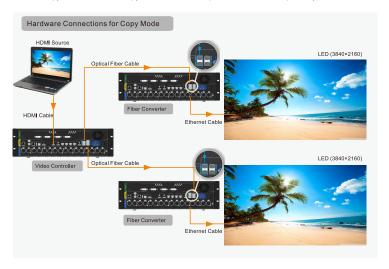
Low Latency

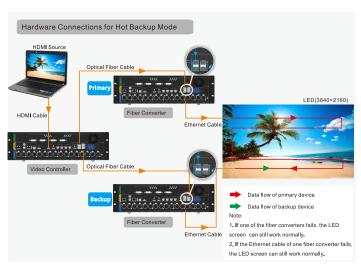
When the NovaPro UHD Jr is used together with NovaStar Armor series receiving cards (A8/A8s/A9s/A10s Plus), this function can realize 2 frame delay from sending card to receiving card.

Mode

In video controller mode, OPT 3 and OPT 4 offer two OPT modes: Hot Backup (default) and Copy.

- Hot Backup: OPT 3 and OPT4 back up the data of Ethernet ports 1~8 and 9~16 respectively.
- Copy: OPT 3 and OPT4 copy the data of Ethernet ports 1~8 and 9~16 respectively.







Specifications

