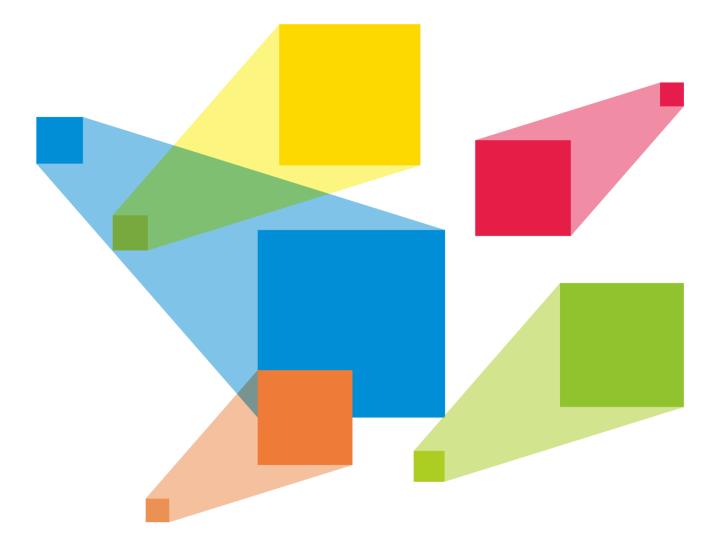


NovaPro UHD

All in One Controller

V1.0.0 NS160100280



Specifications

Overview

The NovaPro UHD is a new all-in-one 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 and 8K×1K@60Hz, and provides a maximum loading capacity of 8.8 million pixels.

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

The NovaPro UHD can send the 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.

Features

- A variety of input connectors: 4 × 12G-SDI connectors with loop output functions, 1 × HDMI 2.0 with loop output function, and 1 × DP 1.2
- 1 × replaceable input card with four connectors Input card can be DVI or HDMI (default) card.
- 16 × Neutrik Ethernet ports and 4 × optical fiber output connectors

The loading capacity can be up to 8.8 million pixels

- 6 × layers, 1 × OSD, 1 × LOGO, and 1 × BKG
- 2 × layers up to 4K×2K, 4 × layers up to 2K×1K Layer scaling supported
- OSD supports 4K×2K resolution, cropping, opacity, dynamic/static images and position settings.
- Layer opacity adjustment, irregular layers, layer mask, and layer copying, mirroring and flipping supported
- Layer priority adjustment by z-order

- Up to 8K output width or height of a single device
- MultiViewer settings
 Set to monitor input sources, PVW, PGM, or perform mixed monitoring.
- 16 × Neutrik Ethernet outputs, 4 × 10G fiber optical outputs with copy and hot backup modes
- Quick and advanced screen configurations
- With the built-in smart platform Master VI, LED screen configuration and layer configuration can be easily performed via the connected mouse, keyboard and monitor.
- 10-bit processing of the input source
- HDR function to make images finer and smoother
- Low-latency output

Approximately 3-frame delay from the input to receiving card

• Remote data transmission via a Gigabit Ethernet port or fiber optical connector

Appearance

Front Panel





Power button This is the power button of the device. • Press it to power on the device. • Hold it down to power off or restart the device. Layer buttons • Press a button to quickly create a layer. • Blue: The layer is open, and the input source is not accessed normally. • White: The layer is open, but the input source is not accessed. • Off: The layer is open, but the input source is not accessed. • Off: The layer is open, but the input source is not accessed. • Diff. The layer is opened, hold down the layer button to close the layer. • Flashing: The layer is being edited. • Bute: flashing: An input source is accessed to the layer and the input source is normal. • White, flashing: No input source. • Blue: The input source is accessed to the layer or the input source is acbornmal. • White. The input source is accessed or used. • White. The input source is not accessed or used. • White. The input source is not accessed or used. • When the indicators of all the buttons with numbers are blue, these buttons can be used to enter numbers. TFT screen Display current device status and settings menu. Knob • On the home screen, press the knob to enter the operation menu screen. • On the operation menu screen, rotate the knob to adjust the parameters. • Buttons • FRES ES LED to black screen. • LOGO: Enter	Button	Function		
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	ESC button	Press the button to exit the current menu or cancel the operation.		
	USB ports	2 × USB ports		
	-	Insert a USB drive to perform system update.		



Button	Function		
	Connect a mouse or keyboard.		

<u>Rear Panel</u>



Note:

The NovaPro UHD supports replacement of input card. HDMI input card is the default configuration.

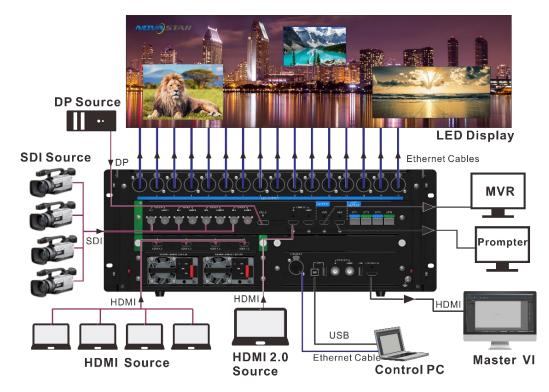
If you need to change other input cards, please purchase and replace the input card you	
	self.

Input				
Connector	Quantity	Description		
12G-SDI	4	Supports ST-2082-1 (12G), ST-2081-1 (6G), ST-424 (3G) and ST-292 (HD) input signals.		
		Input resolutions up to 4K×2K@60Hz and downward compatible		
		Supports 12G-SDI loop output.		
		Note:		
		 When the input source is a 12G-SDI signal, it is recommended you CANARE / L-4.5CHD+ / UHDTV-SDI SDI cables and the cable length sho be less than 50 m. 		
		• 12G-SDI connectors 1, 2 and 3 do not support deinterlaced function, but connector 4 supports the function.		
DP 1.2	1	Input resolutions up to 4Kx2K@60Hz (8Kx1K@60Hz) and downward compatible		
		Supports HDCP 1.3.		
		Does not support interlaced signal inputs.		
HDMI 2.0	1	Input resolutions up to 4Kx2K@60Hz (8Kx1K@60Hz) and downward compatible		
		Supports HDCP 1.4 and HDCP 2.2.		
		Does not support interlaced signal inputs.		
		Supports HDMI 2.0 loop output.		
HDMI 1.3	4	D_4×HDMI 1.3 input card by default		
		Supports input resolutions up to 1920×1080@60Hz.		
		Supports HDCP 1.3.		

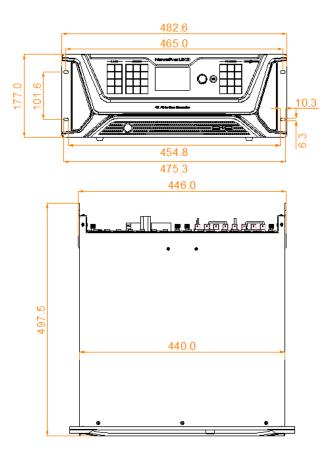


		Supports interlaced signal inputs		
		Supports interlaced signal inputs.		
		The HDMI input card can be changed to other input cards, such as $D_4 \times DVI$ input card and $D_4 \times DP$ 1.1 input card.		
Output	Output			
Connector	Quantity	Description		
Ethernet port	16	Neutrik Ethernet output ports		
		Maximum loading capacity: 8.8 million pixels		
		Maximum width: 8192 pixels		
		Maximum height: 8192 pixels		
OPT 1- 4	4	10G fiber optical output connectors with backup and redundancy modes		
		OPT 1 transmits data of Ethernet ports 1–8.		
		OPT 2 transmits data of Ethernet ports 9–16.		
		• OPT 3 is the copy/hot backup channel for OPT 1 or Ethernet ports 1–8.		
		• OPT 4 is the copy/hot backup channel for OPT 2 or Ethernet ports 9–16.		
MVR	1	HDMI 1.4 connector, used as monitoring connector of Multiviewer to monitor input source, PVM, PGM or perform mixed monitoring		
AUX	1	HDMI 1.4 connector, used as auxiliary output connector for connecting an auxiliary device, such as a teleprompter		
Control				
Connector	Quantity	Description		
ETHERNET	1	For PC communication or network connection		
USB	1	USB (Type-B): Connect to the PC for device debugging.		
		USB (Type-A): A reserved port		
GENLOCK	1	Connect a synchronization signal source to synchronize the		
IN - LOOP		cascaded devices.		
USB	1	Insert a USB drive to perform system update.		
		Connect a mouse or keyboard.		
CONTROL UI	1	Connect to a monitor for human-machine interaction.		

Applications



Dimensions



Unit: mm



Specifications

Overall Specifications			
Electrical	Power connector	AC100-240VAC~, 50/60Hz, power backup design	
Specifications	Power consumption	180 W	
Operating Environment	Operating temperature	-10°C to +60°C	
	Operating Humidity	0% RH to 80% RH	
	Storage Humidity	0% RH to 95% RH	
Physical Specifications	Dimensions	482.6 mm × 177 mm × 497.5 mm 4U standard chassis	
	Net weight	21 kg	
	Gross weight	42 kg	
Packing Information	Accessories	 6 × power cords 1 × USB drive (16GB) 1 × DVI cable 1 × USB cable 1 × HDMI cable 1 × DP cable 1 × DP cable 1 × Mini DP to DP cable 1 × Custom Letter 1 × Quick Start Guide 1 × Packing List 1 × Safety Manual 46 × Silicone dustproof plugs 	
	Flight case	523 mm × 265 mm × 700 mm	
Certifications		FCC, IC, EMC, UL/CUL, CB, CE, ROHS 10, EAC	
Noise Level (typical at 25°C/77°F)		57 dB(A)	

Video Source Features

Input Connector	Color Deptl	h	Max. Input Resolution
• HDMI 2.0	8 bit	RGB4:4:4	3840×2160@60Hz
• DP 1.2		YCbCr4:4:4	
		YCbCr4:2:2	
		YCbCr4:2:0	Unsupported
	10 bit	RGB4:4:4	



Input Connector	Color Dep	pth	Max. Input Resolution
		YCbCr4:4:4	1920×1080@60Hz
		YCbCr4:2:2	3840×2160@60Hz
		YCbCr4:2:0	Unsupported
	12 bit	RGB4:4:4	1920×1080@60Hz
		YCbCr4:4:4	
		YCbCr4:2:2	3840×2160@60Hz
		YCbCr4:2:0	Unsupported
HDMI 1.3	8 bit	RGB4:4:4	1920×1080@60Hz
		YCbCr4:4:4	1920×1080@60Hz
		YCbCr4:2:2	
	10 bit	RGB4:4:4	
		YCbCr4:4:4	
		YCbCr4:2:2	
	12 bit	RGB4:4:4	
		YCbCr4:4:4	
		YCbCr4:2:2	
12G-SDI	Maximum input resolution: 4096×2160@60Hz		
	Input	resolution and bit dept	h settings unsupported
	 Supports ST-2082-1 (12G), ST-2081-1 (6G), ST-424 (3G) and ST-292 (HD) input signals 		



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