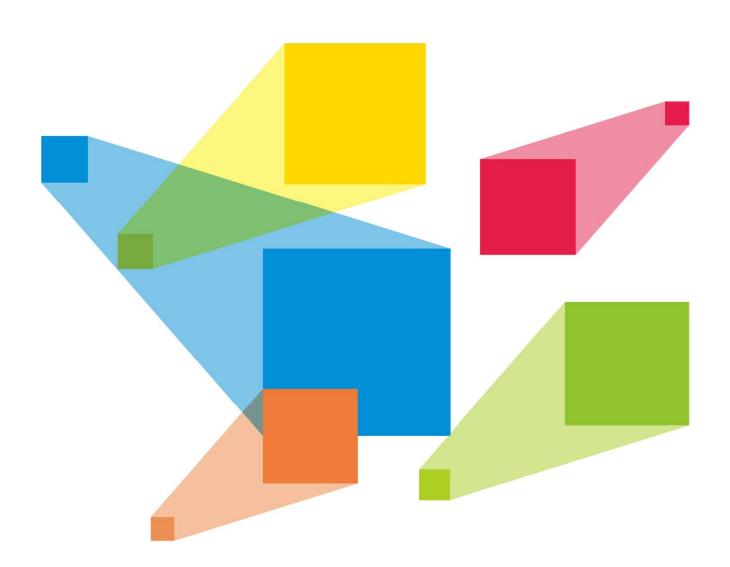


VX400s-N

All-in-One Controller



Specifications

Change History

Document Version	Release Date	Description
V1.0.0	2023-07-20	First release

Introduction

The VX400s-N is NovaStar's new all-in-one controller that integrates video processing and video control into one box. It features 4 Ethernet ports. A VX400s-N unit can drive up to 2.3 million pixels, with the maximum output width and height both up to 3840 pixels.

The VX400s-N is capable of receiving a variety of video signals and processing high-resolution images. In addition, the device features stepless output scaling and chroma calibration and more, to present you with an excellent image display experience.

Thanks to its powerful video processing and sending capabilities and other outstanding features, the VX400s-N can be widely used applications such as rental, stage control systems and fin-pitch LED screens.

Certifications

None

If the product does not have the relevant certifications required by the countries or regions where it is to be sold, please contact NovaStar to confirm or address the problem. Otherwise, the customer shall be responsible for the legal risks caused or NovaStar has the right to claim compensation

Features

- Input connectors
 - 1x HDMI 1.3 (IN & LOOP)
 - 1x HDMI 1.3
 - 1x 3G-SDI (IN & LOOP)
- Output connectors
 - 4x Gigabit Ethernet ports

A single device unit drives up to 2.3 million pixels, with a maximum width of 3840 pixels and a maximum height of 3840 pixels.

- Audio input and output
 - Audio input accompanied with an HDMI input source
 - Audio output via a multifunction card
 - Output volume adjustment supported
- 2x layers
 - Adjustable layer size and position
 - Adjustable layer priority
- Output synchronization

An internal input source can be used as the sync source to ensure the output images of all cascaded units in sync.

Powerful video processing

- Based on SuperView III image quality processing technologies to provide stepless output scaling
- One-click full screen display
- Free input cropping
- Easy preset saving and loading
 Up to 10 user-defined presets
- Multiple kinds of hot backup
 - Backup between devices
 - Backup between Ethernet ports
- Up to 4 units cascaded for image mosaic
- Output image quality management
 - Brightness, saturation, contrast and hue adjustment
- Pixel level brightness and chroma calibration

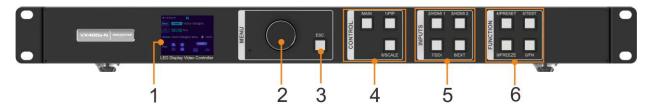
Working with NovaLCT and NovaStar calibration software to support brightness and chroma calibration on each LED, effectively removing color discrepancies and greatly improving LED display brightness and chroma consistency, allowing for better image quality.

Multiple operation modes

Control your device as you wish via NovaLCT or device front panel knob and buttons.

Appearance

Front Panel



No.	Area	Function	
1	LCD screen	Display the device status, menus, submenus and messages.	
2	Knob	 Rotate the knob to select a menu item or adjust the parameter value. Press the knob to confirm the setting or operation. 	
3	ESC button	Exit the current menu or cancel an operation.	
4	Control area	 MAIN/PIP: Open or close a layer, and show the layer status. On (blue): The layer is opened. Flashing (blue): The layer is being edited. On (white): The layer is closed. SCALE: A shortcut button for the full screen function. Press the button to make the layer of the lowest priority fill the entire screen. On (blue): Full screen scaling is turned on. On (white): Full screen scaling is turned off. 	
5	Input source buttons	Show the input source status and switch the layer input source. Status LEDs: On (blue): An input source is accessed. Flashing (blue): The input source is not accessed but used by the layer. On (white): The input source is not accessed or the input source is abnormal.	
6	Shortcut function buttons	 PRESET: Access the preset settings menu. TEST: Access the test pattern menu. FREEZE: Freeze the output image. FN: A customizable button 	

Note:

Hold on the knob and **ESC** button simultaneously for 3s or longer to lock or unlock the front panel buttons.

Rear Panel

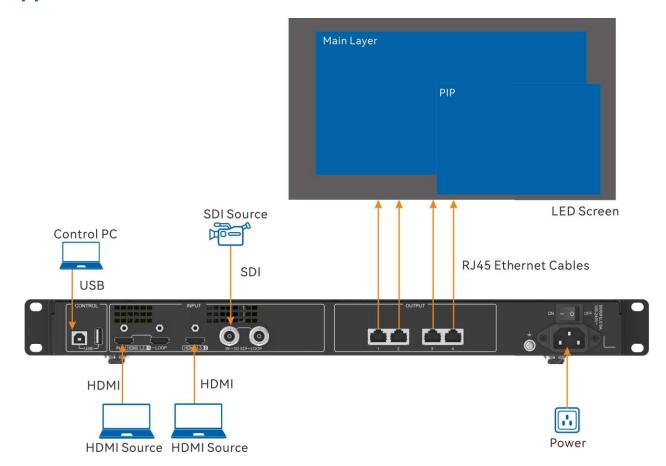


PAGE

Input Connectors			
Connector	Qty	Description	
3G-SDI	1	 ST-424 (3G), ST-292 (HD) and ST-259 (SD) standard video inputs supported Max. input resolution: 1920×1080@60Hz Deinterlacing processing supported 3G-SDI loop output supported Does Not support input resolution and bit depth settings. Does Not support the signal source in Level B format. 	
HDMI 1.3	2	 Max. input resolution: 2K×1K@60Hz HDCP 1.4 compliant Does Not support deinterlacing processing. Does Not support interlaced signal inputs. Custom resolutions supported Max. width: 3840 (3840×600@60Hz) Max. height: 1920 (800×1920@60Hz) Force inputs supported: 800×3840@60Hz Accompanied audio input supported Loop output supported on HDMI 1.3-1 	
Output Connec	ctors		
Connector	Qty	Description	
Ethernet ports	4	 Gigabit Ethernet port Max. loading capacity: 2.3 million pixels Max. width: 3840 pixels Max. height: 3840 pixels Only Ethernet port 1 supports audio output. When you use a multifunction card to parse the audio, be sure to connect the card to Ethernet port 1. Status LEDs: The top left one (green) indicates the connection status. On: The port is well connected. Flashing: The port is not well connected, such as loose connection. Off: The port is not connected. The top right one (yellow) indicates the communication status. On: The Ethernet cable is short-circuited. Flashing: The communication is good and data is being transmitted. Off: No data transmission 	
Control Conne	ctors		
Connector	Qty	Description	
USB	2	 USB (Type-B): Connect to the control PC. Input connector for device cascading USB (Type-A): Output connector for device cascading 	

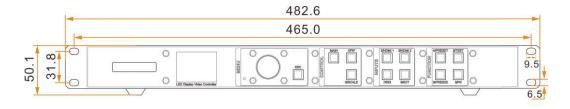
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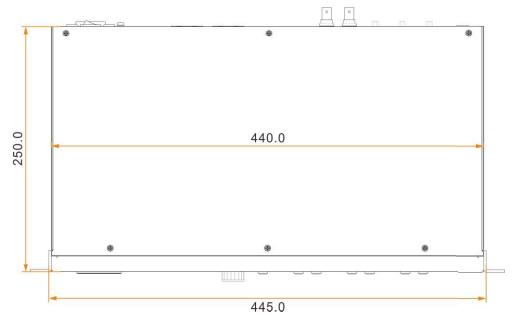
Applications



Dimensions

Device





Tolerance: ±0.3 Unit: mm

Carton



Tolerance: ±5 Unit: mm

Specifications

Electrical Parameters	Power connector	100-240V~, 0.6A, 50/60Hz	
	Rated power consumption	28W	
Operating Environment	Temperature	-20°C to +60°C	
	Humidity	0% RH to 80% RH, non-condensing	
Storage Environment	Temperature	-20°C to +70°C	
	Humidity	0% RH to 95% RH, non-condensing	
Physical Specifications	Dimensions	482.6 mm × 250 mm × 50.1 mm	
	Net weight	3.2kg	
Packing Information	Accessories	1x Power cord	
		1x USB cable	
		1x HDMI cable	
		1x Certificate of Approval	
		1x Safety Manual	
	Packing size	550.0mm × 175.0mm × 400.0mm	
	Gross weight	[TBD]	
Noise Level (typical at 25°C/77°F)		45 dB (A)	

Video Source Features

Input Connectors	Bit Depth		Max. Input Resolution	
• HDMI 1.3	8bit	RGB4:4:4	1920×1200@60Hz (Standard) 3840×600@60Hz (Custom)	
		YCbCr4:4:4		
	YCbCr4:2:2 800×3840@60Hz (Forced)	800×3840@60Hz (Forced)		
		YCbCr4:2:0	Not supported	
	10bit / 12bit		Not su[pported	
3G-SDI	Max. input resolution: 1920×1080@60Hz			
	 Does Not support input resolution and bit depth settings. 			
	Supports ST-424 (3G), ST-292 (HD) and ST-259 (SD) standard video inp			

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