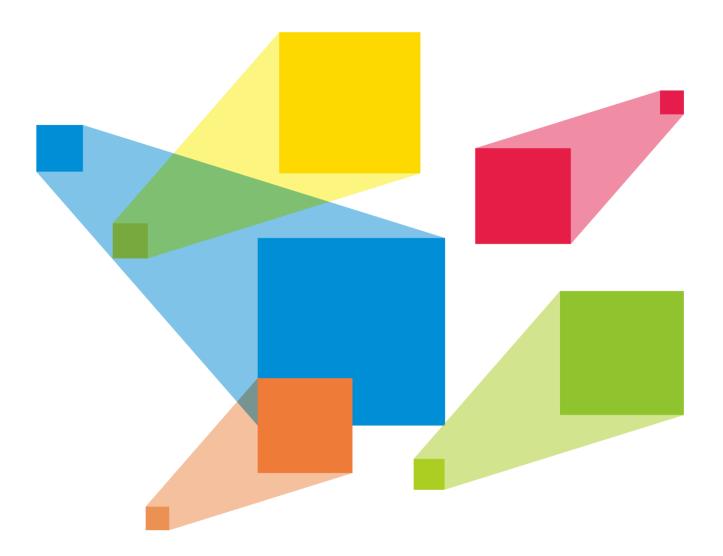
VX4S-N

All-in-One Controller

V1.0.1



Specifications

Overview

The VX4S-N is a professional LED display controller developed by NovaStar. Besides the function of display control, it also features powerful image processing capabilities. With excellent image quality and flexible image control, the VX4S-N greatly meets the needs of the media industry.

Features

- Industry-standard input connectors
 - 1x CVBS
 - 1x VGA
 - 1x DVI (IN+LOOP)
 - 1x HDMI 1.3
 - 1x DP
 - 1x 3G-SDI (IN+LOOP)
- 4x Gigabit Ethernet outputs, capable of loading up to 2,300,000 pixels
- Quick screen configuration supported

Computer software for system configuration is not necessary.

- Seamless high-speed switching and fade effect supported, to present professional-quality images
- Adjustable PIP position and size, free control at will

- Nova G4 engine adopted, enabling exquisite image display with a good sense of depth, without flickering and scanning lines
- White balance calibration and color gamut mapping based on different features of LEDs used by screens, to ensure the reproduction of true colors
- Independent external audio output supported
- High bit-depth video input: 10-bit and 8-bit
- Multiple device units connected for image mosaic
- NovaStar's new-generation pixel level calibration technology adopted, ensuring a fast and efficient calibration process
- An innovative architecture adopted, allowing for smart screen configuration

The screen debugging can be completed within several minutes, which greatly shortens the preparation time on the stage.

Appearance

Front Panel



Button	Description				
Power switch	Power on or power off the device.				
LCD screen	Display the device status, menus, submenus and messages.				
Knob	Rotate the knob to select a menu item or adjust the parameter value.Press the knob to confirm the setting or operation.				
ESC button	Exit the current menu or cancel the operation.				
Control buttons	 PIP: Enable or disable the PIP function. On: PIP enabled Off: PIP disabled SCALE: Enable or disable the image scaling function. On: Image scaling function enabled 				



	 Off: Image scaling function disabled MODE: A shortcut button for loading or saving the preset TEST: Open or close the test pattern. On: Open the test pattern. Off: Close the test pattern.
Input source buttons	 Switch the layer input source and display the input source status. On: The input source is connected and being used. Flashing: The input source is not connected, but already used. Off: The input source is not used.
Function buttons	 TAKE: When the PIP function is enabled, press this button to switch between the main layer and PIP. FN: An assignable button
USB (Type-B)	Connect to the control PC.

Rear Panel

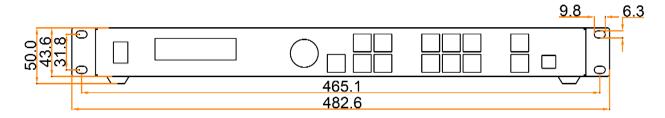


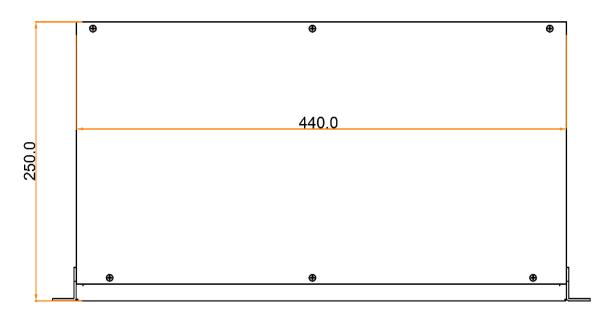
Input					
Connector	Qty	Description			
3G-SDI	1	 Up to 1920×1080@60Hz input resolution Support for progressive and interlaced signal inputs Support for deinterlacing processing Support for loop through 			
AUDIO	1	A connector for connecting the external audio			
VGA	1	VESA standard, up to 1920×1200@60Hz input resolution			
CVBS	1	A connector for accepting PAL/NTSC standard video inputs			
DVI	1	 VESA standard, up to 1920×1200@60Hz input resolution Support for custom resolutions Max. width: 3840 pixels (3840×652@60Hz) Max. height: 1920 pixels (1246×1920@60Hz) HDCP 1.4 compliant Support for interlaced signal inputs Support for loop through 			
HDMI 1.3	1	 Up to 1920×1200@60Hz input resolution Support for custom resolutions Max. width: 3840 pixels (3840×652@60Hz) Max. height: 1920 pixels (1246×1920@60Hz) HDCP 1.4 compliant Support for interlaced signal inputs 			
DP	1	 Up to 1920×1200@60Hz input resolution Support for custom resolutions 			



r						
		 Max. width: 3840 pixels (3840×652@60Hz) 				
		 Max. height: 1920 pixels (1246×1920@60Hz) 				
		HDCP 1.3 compliant				
		 Support for interlaced signal inputs 				
Output						
Ethernet port	4	4 ports load up to 2,300,000 pixels.				
		Max. width: 3840 pixels				
		Max. height: 1920 pixels				
		Only Ethernet port 1 can be used for audio output. When the multifunction card is used for audio decoding, the card must be connected to the Ethernet port 1.				
DVI OUT	1	A connector for monitoring the output images				
Control	•					
ETHERNET	1	Connect to the control PC for communication.				
		Connect to the network.				
USB (Type-B)	1	Connect to the control PC for device control.				
		 Input connector to link another device 				
USB (Type-A)	1	Output connector to link another device				

Dimensions





Tolerance: ±0.8 Unit: mm



Specifications

Overall Specifications				
Electrical Specifications	Power connector	100-240V~, 50/60Hz. 1.5A		
	Power consumption	25 W		
Operating Environment	Temperature	−20°C ~ +60°C		
	Humidity	20% RH to 90% RH, non-condensing		
	Storage Humidity	10% RH to 95% RH, non-condensing		
Physical Specifications	Dimensions	482.6 mm × 250.0 mm × 50.0 mm		
	Net weight	2.55 kg		
	Gross weight	5.6 kg		
Packing Information	Carrying case	540 mm × 140 mm × 370 mm		
	Accessories	1x Power cord 1x USB cable 1x DVI cable 1x HDMI cable 1x User Manual		
	Packing box	555 mm × 405 mm × 180 mm		
Certifications		CE, RoHS, FCC, UL, CMIM		
Noise Level (typical at 25°C/77°F)		38 dB (A)		

Video Source Features

Input Connector	Color Depth		Recommended Max. Input Resolution		
HDMI 1.3	8-bit	RGB 4:4:4	1920×1080@60Hz		
DP		YCbCr 4:4:4			
		YCbCr 4:2:2			
		YCbCr 4:2:0	Not supported		
	10-bit	RGB 4:4:4	1920×1080@60Hz		
		YCbCr 4:4:4			
		YCbCr 4:2:2			
		YCbCr 4:2:0	Not supported		
	12-bit	RGB 4:4:4	Not supported		



Input Connector	Color Depth		Recommended Max. Input Resolution		
		YCbCr 4:4:4			
		YCbCr 4:2:2			
		YCbCr 4:2:0			
SL-DVI	8-bit	RGB 4:4:4	1920×1080@60Hz		
3G-SDI	 Max. input resolution: 1920×1080@60Hz Supports ST-424 (3G) and ST-292 (HD) standard video inputs. DOES NOT support input resolution and bit depth settings. 				

Attachment

The Conflict List of PIP Signal Source.

		Main Laye	Main Layer Input Source					
		HDMI	DVI	VGA	CVBS	SDI	DP	
PIP Input	HDMI	-	×	\checkmark	\checkmark	\checkmark		
Source	DVI	×	-	\checkmark	\checkmark	\checkmark	\checkmark	
	VGA	\checkmark	\checkmark	-	\checkmark			
	CVBS	\checkmark	\checkmark	\checkmark	-			
	SDI	\checkmark	\checkmark	\checkmark	\checkmark	-	\checkmark	
	DP	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	-	

- $\sqrt{1}$ denotes the input sources can be used by both the main layer and PIP at the same time.
- x denotes the input sources cannot be used by both the main layer and PIP at the same time.
- - denotes the main layer and PIP use the same input source.

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