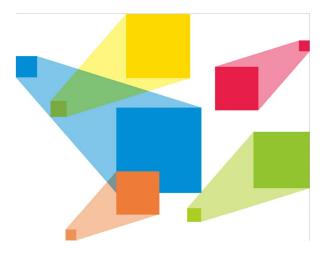


VX1000

All-in-One Controller

V1.0.1

Buy website address https://reissopto-led.com/products/novastar-vx1000-all-in-one-fine-pitch-led-screens-controller



Specifications

Introduction

The VX1000 is NovsStafs new all-in-one controller that integrates video processing and video control into one box. It features 10 Ehrenner ports and supports video controller, fiber converter and Bypass working modes AVX1000 unit can drive up to 6.5 million pixels, with the maximum output width and height up to 10,240 pixels and 8192 pixels, respectively, which is ided for utrix-wide and utrix-high LED screen applications.

The VX1000 is capable of receiving a variety of video signals and processing high-resolution 4K×1K@60Hz images. In addition, the device features stepless output scaling, low latency, 3D, pixel-level brightness and chroma calibration and more, to present you with an excellent image display experience.

What's more, the VX1000 can work with NovaStar's supreme software NovaLCT and V-Can to greatly facilitate your in-field operations and control, such as screen configuration, Ethernet port backup settings, layer management, preset management and fimware update.

Thanks to its powerful video processing and sending capabilities and other outstanding features, the VX1000 can be widely used in applications such as medium and high-end rental, stage control systems and fine-pitch LED screens.

Features

- Input connectors
 - 1x HDMI 1.4 (IN & LOOP)
 - 1x HDMI 1.4
 - 1x DVI (IN & LOOP)
 - 1x DVI
 - 1x 3G-SDI (IN & LOOP)
 - 1x 10G optical fiber port (OPT1)
- Output connectors
 - 10x Gigabit Ethernet ports

A single device unit drives up to 6.5 million pixels, with a maximum width of 10,240 pixels and a maximum height of 8192 pixels.

2x Fiber outputs

OPT 1 copies the output on 10 Ethernet ports.

OPT 2 copies or backs up the output on 10 Ethernet ports.

1x HDMI 1.3

For monitoring or video output

 Self-adaptive OPT 1 for either video input or sending card output

Thanks to the self-adaptive design, OPT 1 can be used as either an input or output connector, depending on its connected device.

- Audio input and output
 - Audio input accompanied with HDMI input source
 - Audio output via a multifunction card
 - Output volume adjustment supported
- Low latency

Reduce the delay from the input to receiving card to 20 lines when the low latency function and Bypass mode are both enabled.

3x layers

- Adjustable layer size and position
- Adjustable layer priority
- Output synchronization

An internal input source or external Genlock 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 supported
 - Load a preset by simply pressing one button
- Multiple kinds of hot backup
 - Backup between devices
 - Backup between Ethernet ports
 - Backup between input sources
- Mosaic input source supported

The mosaic source is composed of several input connectors of the same type.

- Up to 4 units cascaded for image mosaic
- Three working modes
 - Video Controller
 - Fiber Converter
 - Bypass
- All-round color adjustment

Input source and LED screen color adjustment supported, including brightness, contrast, saturation, hue and Gamma

3D function

Work with the EMT200 3D emitter and matched 3D glasses to present a 3D visual experience.



Pixel level brightness and chroma calibration

Work with NovaLCT and NovaStar calibration software to support brightness and chroma calibration on each LED, which can effectively remove color discrepancies and greatly improve LED display brightness and chroma consistency, allowing for better image quality.

Appearance

Front Panel

Multiple operation modes

Control the device as you wish via V-Can, NovaLCT or device front panel knob and buttons.



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	Open or close a layer (main layer and PIP layers), and show the layer status. Status LEDs:		
5	Input source buttons	Show the input source status and switch the layer input source. Status LEDs: • On (blue): An input source is accessed. • Chi (white): 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. Notes: • Other a 4K vises source is contected to OPT 1, OPT 1-1 has a signal but OPT 1-2 does not have a signal. • When the 2K vides sources are connected to OPT 1, OPT 1-1 and OPT 1-2 both may a 2K signal.		
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 down the knob and ESC button simultaneously for 3s or longer to lock or unlock the front panel buttons.

Rear Panel



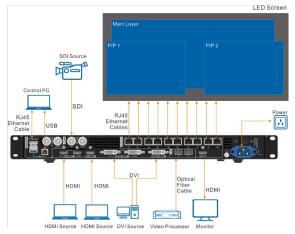
Input Connectors		
Connector	Qty	Description
3G-SDI	1	ST-424 (3G), ST-292 (HD) and ST-259 (SD) standard video inputs supported
		 Max. input resolution: 1920×1080@60Hz
		 Deinterlacing processing supported
		 3G-SDI loop output supported
		 DOES NOT support input resolution and bit depth settings.
HDMI 1.4	2	 Max. input resolution: 3840×1080@60Hz or 3840×2160@30Hz
		HDCP 1.4 compliant
		 Interlaced signal inputs supported
		 Mosaic of two HDMI 1.4 inputs supported
		 Custom resolutions supported
		 Max. width: 4092 pixels (4092×1136@60Hz)
		 Max. height: 3981 pixels (1060×3981@60Hz)
		 Loop output supported on HDMI 1.4 1
DVI (HDMI 1.4)	2	 Max. input resolution: 3840×1080@60Hz or 3840×2160@30Hz
		HDCP 1.4 compliant
		 Interlaced signal inputs supported
		 Custom resolutions supported
		 Max. width: 4092 pixels (4092×1136@60Hz)
		 Max. height: 3981 pixels (1060×3981@60Hz)
		 Mosaic of two DVI inputs supported
		Loop output supported on DVI 1
Output Connecto	rs	
Connector	Qty	Description
Ethernet ports	10	Gigabit Ethernet ports
		 Max. loading capacity: 6.5 million pixels
		Max. width: 10,240 pixels
		Max. height: 8192 pixels
		Ethernet ports 1 and 2 support audio output. When you use a multifunction card to parse the audio, be sure to connect the card to Ethernet port 1 or 2.
HDMI 1.3	1	 For output monitoring, the output resolution is fixed to 1920×1080@60Hz
		 For video output, the output resolution is adjustable.



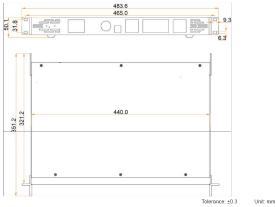
Connector	Qty	Description			
OPT	2	10G optical fiber ports			
		OPT 1: Self-adaptive, either for video input or for output			
		 When the device is connected with a fiber converter, the port is used as an output connector. 			
		 When the device is connected with a video processor, the port is used as an input connector. 			
		 Max. capacity: 1x 4K×1K@60Hz or 2x 2K×1K@60Hz video inputs 			
		OPT 2: For output only, with copy and backup modes			
		OPT 2 copies or backs up the output on 10 Ethernet ports.			
Control Connectors					
Connector Qty		Description			
ETHERNET	1	Connect to the control PC or router.			
USB	2	 USB 2:0 (Type-B): 			
		 Connect to the control PC. 			
		 Input connector for device cascading 			
		 USB 2.0 (Type-A): Output connector for device cascading 			
GENLOCK IN-LOOP	1	USB 2.0 (Type-A): Output connector for device cascading Connect to an external sync signal.			
GENLOCK IN-LOOP	1				
GENLOCK IN-LOOP	1	Connect to an external sync signal.			

Only the main layer can use the mosaic source. When the main layer uses the mosaic source, PIP 1 and 2 cannot be opened.

Applications



Dimensions



Specifications

Electrical Parameters	Power connector	100-240V-, 1.5A, 50/60Hz	
r drameters	Rated power consumption	28 W	
Operating Environment	Temperature	-10°C to +60°C	
Environment	Humidity	20% RH to 90% RH, non-condensing	
Storage Environment	Temperature	-20°C to +70°C	
Environment	Humidity	10% RH to 95% RH, non-condensing	
Physical	Dimensions	483.6 mm × 351.2 mm × 50.1 mm	
Specifications	Net weight	4 kg	
	Gross weight	6.3 kg	
Packing	Accessories	1x Power cord	
Information		1x Power adapter	
		1x HDMI to DVI cable	
		1x USB cable	
		1x Ethernet cable	
		1x HDMI cable	
		1x DAC cable	
		1x Quick Start Guide	
		1x Certificate of Approval	
		1x Customer Letter	
		1x Safety Manual	
	Packing box	565 mm × 175 mm × 450 mm	
Certifications		TBD	
		Note:	
		If the product does not have the relevant certifications required b the countries or regions where it is to be sold, please apply for th certifications yourself or contact NovaStar to apply for them.	
Noise Level / tu	pical at 25°C/77°F)	45 dB (A)	

Video Source Features

Input Connectors	Bit Depth		Max. Input Resolution
• HDMI 1.4	8-bit	RGB 4:4:4	3840×1080@60Hz (Standard)
 DVI (HDMI 1.4) OPT 1 		YCbCr 4:4:4	4092×1136@60Hz (Custom) 4096×1080@60Hz (Forced)
- 0111		YCbCr 4:2:2	
		YCbCr 4:2:0	Not supported
	10-bit		Not supported
	12-bit		Not supported
3G-SDI	• DOES		B@@60Hz lution and bit depth settings. ((HD) and ST-259 (SD) standard video inputs.

Copyright © 2021 Xi'an NovaStar Tech Co., Ltd. All Rights Reserved.

No part of this document may be copied, reproduced, extracted or transmitted in any form or by any means without the prior written consent of Xi'an NovaStar Tech Co., Ltd.

Trademark

NOVA STAR is a trademark of Xi'an NovaStar Tech Co., Ltd.

Statement

Thank you for choosing NovaStar's product. This document is intended to help you understand and use the product. For accuracy and reliability, NovaStar may make improvements and/or changes to this document at any time and without notice. If you experience any problems in use or have any suggestions, please contact us via the contact information given in this document. We will do our best to solve any issues, as well as evaluate and implement any suggestions.

Official website www.novastar.tech

Technical support support@novastar.tech