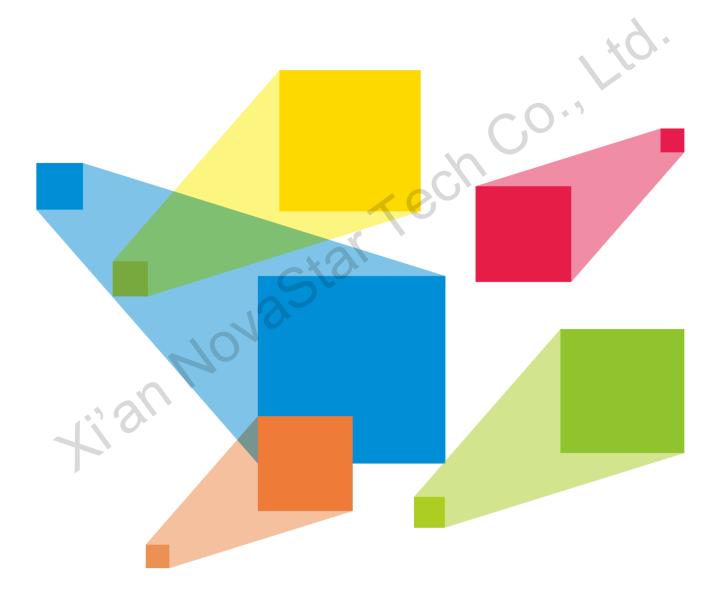


VX4U

All in One Controller

V1.0.5 NS160100552



Specification

Overview

VX4U is a professional LED display controller of NovaStar. Besides having all the functions of an LED display controller, it also features powerful front end video processing. With high image quality and flexible image control, VX4U is able to meet the demands of media industry.

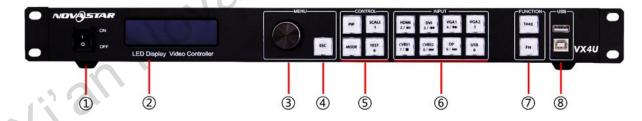
Feature

- The inputs of the VX4U include CVBS × 2, VGA × 2, DVI × 1, HDMI × 1, DP × 1 and USB × 1. The supported input resolution is up to 1920 × 1200@60Hz. The input images of VX4U can be zoomed point-to-point according to the resolution of LED display.
- With seamless quick switch and fade-in/out effects to enhance and present pictures of professional quality.
- The location and size of PIP (Picture in Picture) are adjustable, which can be controlled at will.
- Adopts Nova G4 engine. The screen is stable and flicker free without scanning lines. Images are exquisite and have a good sense of depth.
- Able to perform white balance calibration and color gamut mapping based on the different features of LEDs used by screens to ensure restoration of true colors.

- HDMI/external independent audio input.
- Supports high-bit video input, 10bit/8bit.
- Loading capacity of video output: 2.3 million pixels.
- Supports multiple controller montage for loading huge screen;
- Supports Nova's new-generation pixel-by-pixel calibration technology and the calibration is fast and efficient.
- Adopts an innovative design to enable smart configuration. Screen settings can be completed within several minutes, which has greatly shorten the preparation time.
- With an intuitive LCD interface and clear button indicator lights to simplify the control of the system.

Appearance

Front Panel



No.	Description						
1	Power switch.						
2	Operation screen.						
3	Knob. To press knob means Enter or OK, rotating knob represents selection or adjustment.						
4	ESC. Escape current operation or selection.						
5	 Four control keyboard shortcuts. PIP: PIP Turn-on/off. The lighting of this key represents the turn-on of PIP; otherwise, PIP is turned off. SCALE: Picture zoom turn-on/turn off. The lighting of this key represents the turn-on of zoom function; otherwise, zoom function is unavailable. 	You can enter numbers, such as layer size and offset value, by pressing the					



No.	Description								
	MODE: Shortcut menu of loading or storage of display model.	number buttons. The number							
	• TEST : Shortcut of turn-on/off of testing picture. In case of entering testing picture, the key is bright; otherwise, the key is not bright.	button will be							
6	Shortcut keys for switching of 8 signal input source. Press to set as main screen input source and long press to set as PIP input source. The setting result can be viewed on the operation screen.								
\bigcirc	Function keys.								
	• TAKE: Display switching shortcut key. After short pressing TAKE key, PIP will be opened; if it has been opened, the switching of between MAIN and PIP will be realized.								
	• Fn: Custom shortcut key.								
8	• Flat mouth (Type A, female USB) is USB interface, which connects U disk;								
	• Square mouth (Type B female USB) is USB controlling interface, Communication with PC.								

Rear Panel



Note:

In order to improve the user's experience, the layout of interface may be adjusted a little, The picture is only for reference.

Input Source				
Audio	Audio Input			
DP	DP Input			
HDMI	HDMI Input			
USB	USB Input			
DVI	DVI Input			
VGA1~VGA2	2-Channel VGA Inputs			
CVBS1~CVBS2	PAL/NTSC System Composite Video Input			
Output Interface				
DVI LOOP	DVI Loop Output			
Monitor -DVI OUT 1	DVI Monitoring Interface 1			
Monitor -DVI OUT 2	DVI Monitoring Interface 2			
LED Out 1, 2, 3, 4	4 Gigabit Ethernet outputs. Only Ethernet port 1 supports audio output. When the multifunction card is connected for audio decoding, the multifunction card must be connected to the Ethernet port 1.			

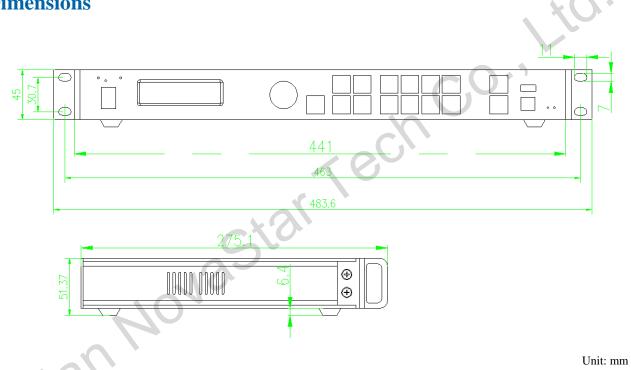


Controlling Interface					
ETHERNET	Network Control (Communication with PC, or Access Network)				
Type B, female USBUSB Control (Communication with PC, or Cascade IN)					
Type A, female USB	USB Cascade OUT				
Power					
AC 100-240V ~ 50/60Hz	AC Power Interface				

Note:

The USB (typeA) on front panel is forbidden to connect with PC directly.

Dimensions



Specifications

Input Index				
Port	Port	Port		
CVBS	2	PAL/NTSC		
VGA	2 VESA Standard, support max. 1920×1200@60Hz input			
DVI	1	VESA Standard (support 1080i input), support HDCP		
USB	1	Multimedia file formats: avi, mp4, mpg, mkv, mov and vob Image file formats: jpg, jpeg, bmp and png		
		Multimedia coding formats: MJPEG, MPEG-1, MPEG-2, MPEG-4, DivX, H.264, Xvid		



HDMI	1	EIA/CEA-861 standard, in accordance with HDMI-1.3 standard, support HDCP
DP	1	VESA Standard

Output Index						
Port	Port	Port				
DVI LOOP	1	Consistent with DVI input				
VGA	1	Monitoring output connector				
DVI	1	Max. output 1280 × 1024@60Hz (2.3 million pixels)				
LED OUT	4	 4 Gigabit Ethernet outputs. Only Ethernet port 1 supports audio output. When the multifunction card is connected for audio decoding, the multifunction card must be connected to the Ethernet port 1. Maximum horizontal resolution is 3840 pixels. Maximum vertical resolution is 1920 pixels. 				

		WIAXIII	ium vertical resolution is 1920 pixels.						
	<u> </u>								
	Specification of complete machine								
	Electrical specifications	Power connector	AC100-240VAC 50/60Hz						
	specifications	Power consumption	25W						
	Operating environment	Operating temperature	-20°C to 70°C						
	SU,	Operating humidity	20%RH to 90%RH						
		Storage humidity	10%RH to 95%RH						
	Physical specifications	Dimensions	$482.6mm \times 275mm \times 45mm$						
	specifications	Package dimensions	2.55 kg						
		Net weight	5.6 kg						
	Packing information	Carrying case	530 mm \times 140mm \times 370mm						
	mormation	Accessory box	$\begin{array}{l} 402mm \times 347mm \times 65mm \\ Accessories: 1 \times power \ cord, \ 1 \times Ethernet \ cable, \ 1 \times DVI \\ cable, \ 1 \times HDMI \ cable, \ 1 \times DP \ cable, \ 1 \times VGA \ cable \ and \\ 1 \times USB \ cable \end{array}$						



Packing box $550 \text{mm} \times 400 \text{mm} \times 175 \text{mm}$					
Certifications		CE, RoHS, FCC, UL/CUL, RCM, CB, KC, EAC			
Noise Level (typical at 25°C/77°F)		40dB (A)			

Attachment

The Conflict List of PIP Signal Source.

		Input Source of Main Channel							
		HDMI	DVI	VGA1	VGA2	CVBS1	CVBS2	USB	DP
	HDMI	-	×	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	ا
	DVI	×	-	\checkmark	\checkmark	\checkmark	\checkmark	V	\checkmark
	VGA1		\checkmark	-	×		Ż	\checkmark	\checkmark
PIP	VGA2	\checkmark	\checkmark	×	-	V	V	\checkmark	\checkmark
Input Source	CVBS1		\checkmark	\checkmark	V		×	\checkmark	\checkmark
	CVBS2	\checkmark	\checkmark	\checkmark	~ 1	С _х	-	\checkmark	\checkmark
	USB		\checkmark	\checkmark	V		\checkmark	-	\checkmark
	DP	\checkmark	V	V	\checkmark	\checkmark	\checkmark	\checkmark	-

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

L'3X



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