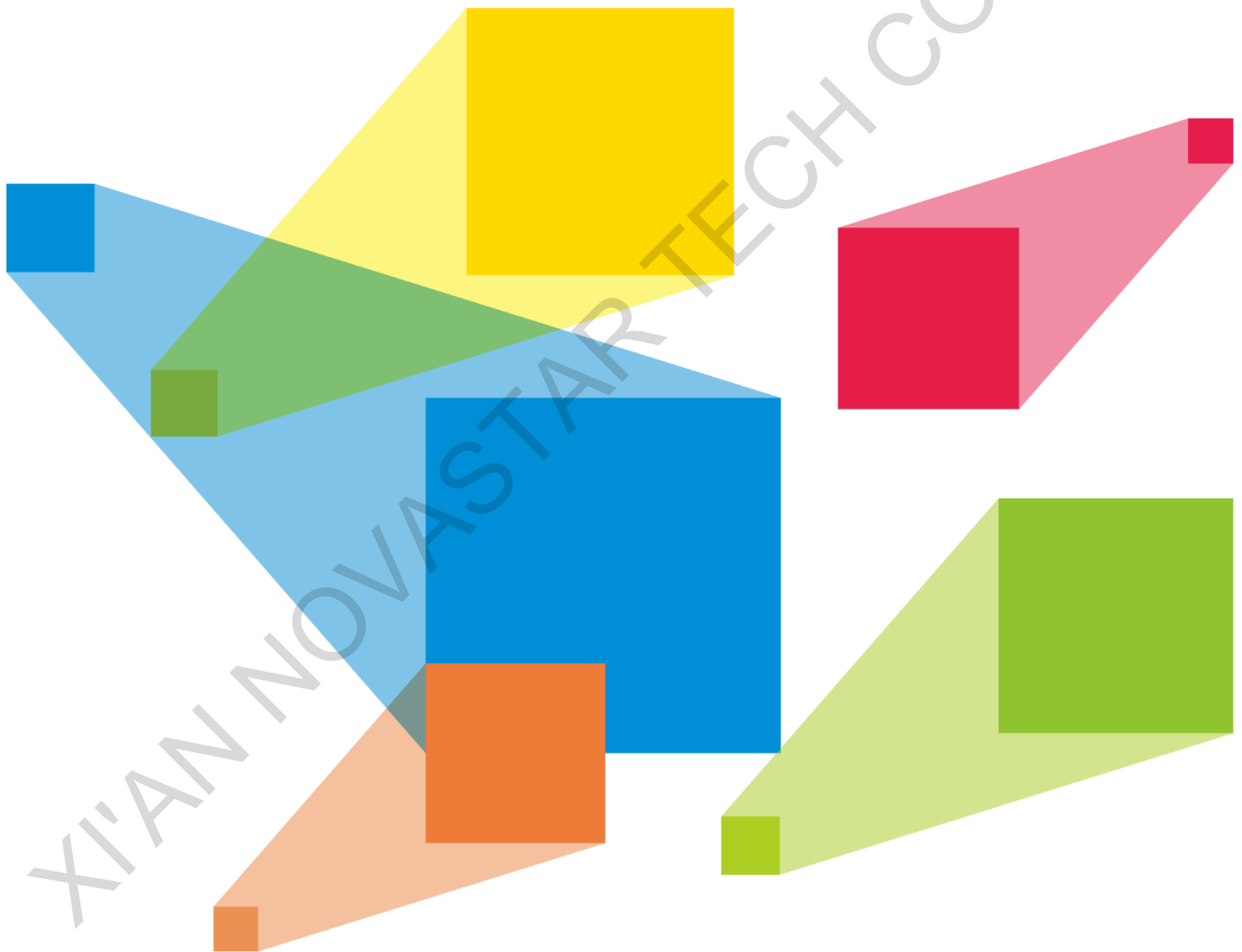


# VX4U

## All in One Controller

V1.0.6



Specification

## Overview

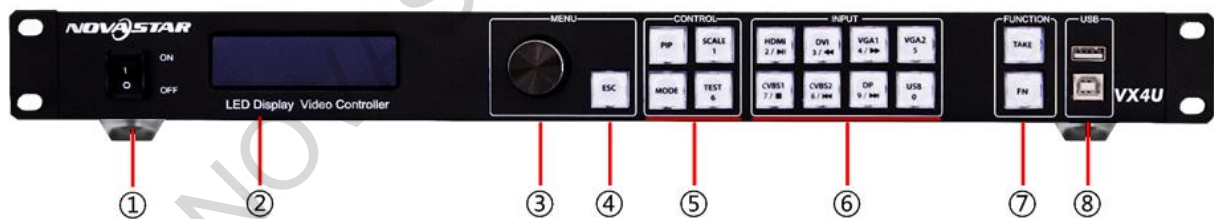
VX4U is a professional LED display controller of NovaStar. Besides having all the functions of an LED display controller, it also features powerful front end video processing. With high image quality and flexible image control, VX4U is able to meet the demands of media industry.

## 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 shortened 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	<b>Power switch.</b>
②	<b>Operation screen.</b>
③	<b>Knob.</b> To press knob means Enter or OK, rotating knob represents selection or adjustment.
④	<b>ESC.</b> Escape current operation or selection.
⑤	<p>Four control keyboard shortcuts.</p> <ul style="list-style-type: none"> <li>• <b>PIP:</b> PIP Turn-on/off. The lighting of this key represents the turn-on of PIP; otherwise, PIP is turned off.</li> <li>• <b>SCALE:</b> Picture zoom turn-on/turn off. The lighting of this key represents the turn-on of zoom function; otherwise, zoom function is unavailable.</li> </ul>

You can enter numbers, such as layer size and offset value, by pressing the

No.	Description	
	<ul style="list-style-type: none"> <li><b>MODE:</b> Shortcut menu of loading or storage of display model.</li> <li><b>TEST:</b> Shortcut of turn-on/off of testing picture. In case of entering testing picture, the key is bright; otherwise, the key is not bright.</li> </ul>	number buttons. The number button will be highlighted after pressed.
⑥	<b>Shortcut keys for switching of 8 signal input source.</b> 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.	
⑦	Function keys. <ul style="list-style-type: none"> <li><b>TAKE:</b> 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.</li> <li><b>Fn:</b> Custom shortcut key.</li> </ul>	
⑧	<ul style="list-style-type: none"> <li><b>Flat mouth</b> (Type A, female USB) is USB interface, which connects U disk;</li> <li><b>Square mouth</b> (Type B female USB) is USB controlling interface, Communication with PC.</li> </ul>	

## 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.

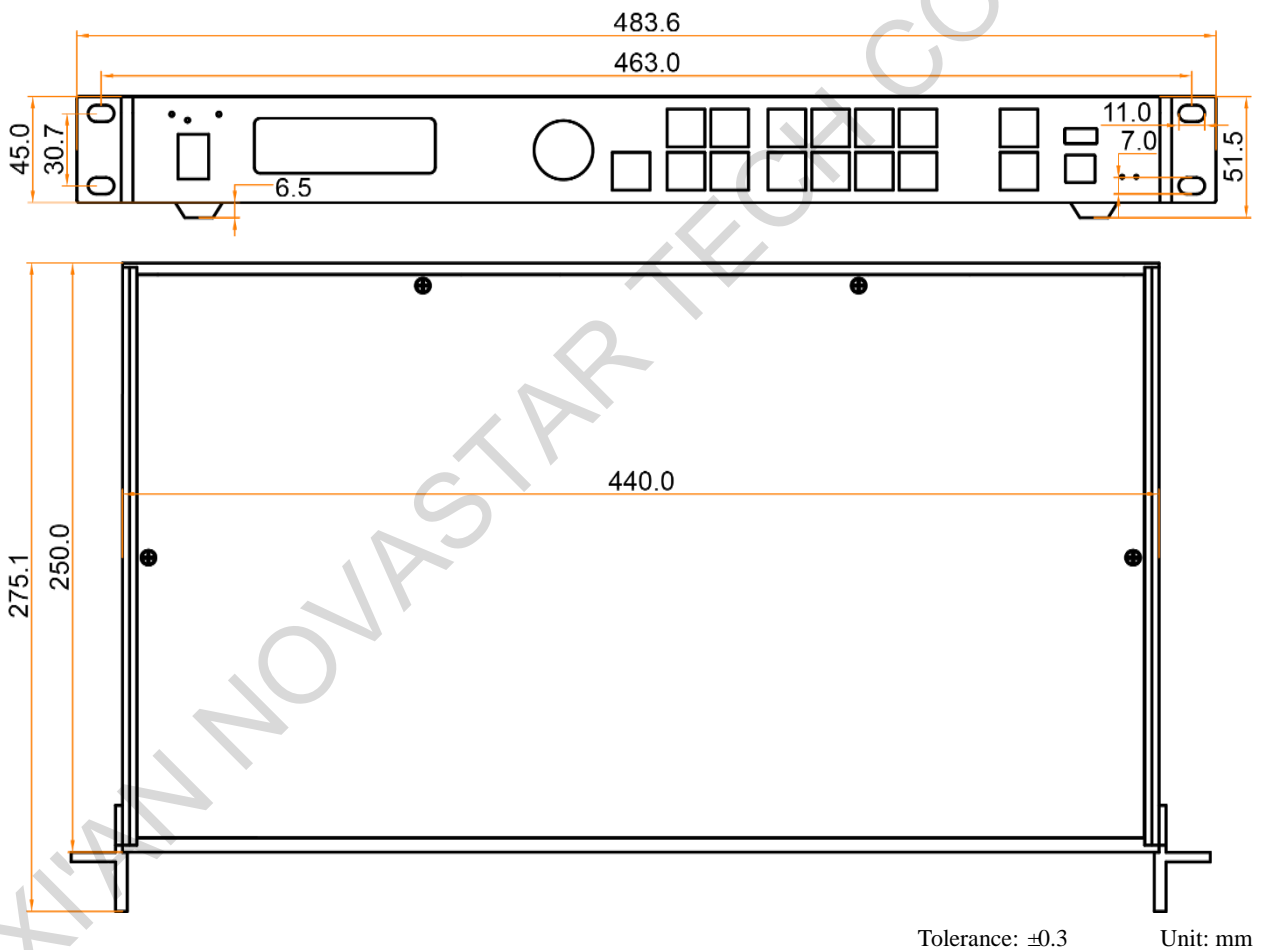
Input Source	
Audio	Audio Input
DP	DP Input
HDMI	HDMI Input
USB	USB Input
DVI	DVI Input
VGA1~VGA2	2-Channel VGA Inputs
CVBS1~CVBS2	PAL/NTSC System Composite Video Input
Output Interface	
DVI LOOP	DVI Loop Output
Monitor -DVI OUT 1	DVI Monitoring Interface 1
Monitor -DVI OUT 2	DVI Monitoring Interface 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 USB	USB 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.

Specification of complete machine		
Electrical specifications	Power connector	AC100-240VAC 50/60Hz
	Power consumption	25W
Operating environment	Operating temperature	-20°C to 70°C
	Operating humidity	20%RH to 90%RH
	Storage humidity	10%RH to 95%RH
Physical specifications	Dimensions	482.6mm × 275mm × 45mm
	Package dimensions	2.55 kg
	Net weight	5.6 kg

Packing information	Carrying case	530mm × 140mm × 370mm
	Accessory box	402mm × 347mm × 65mm Accessories: 1 × power cord, 1 × Ethernet cable, 1 × DVI cable, 1 × HDMI cable, 1 × DP cable, 1 × VGA cable and 1 × USB cable
	Packing box	550mm × 400mm × 175mm
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
PIP Input Source	HDMI	-	×	√	√	√	√	√	√
	DVI	×	-	√	√	√	√	√	√
	VGA1	√	√	-	×	√	√	√	√
	VGA2	√	√	×	-	√	√	√	√
	CVBS1	√	√	√	√	-	×	√	√
	CVBS2	√	√	√	√	×	-	√	√
	USB	√	√	√	√	√	√	-	√
	DP	√	√	√	√	√	√	√	-

- √ 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.

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