



# Specifications

## Video Controller VX2U

## Overview

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VX2U 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, VX2U is able to meet the demands of media industry.

## Features

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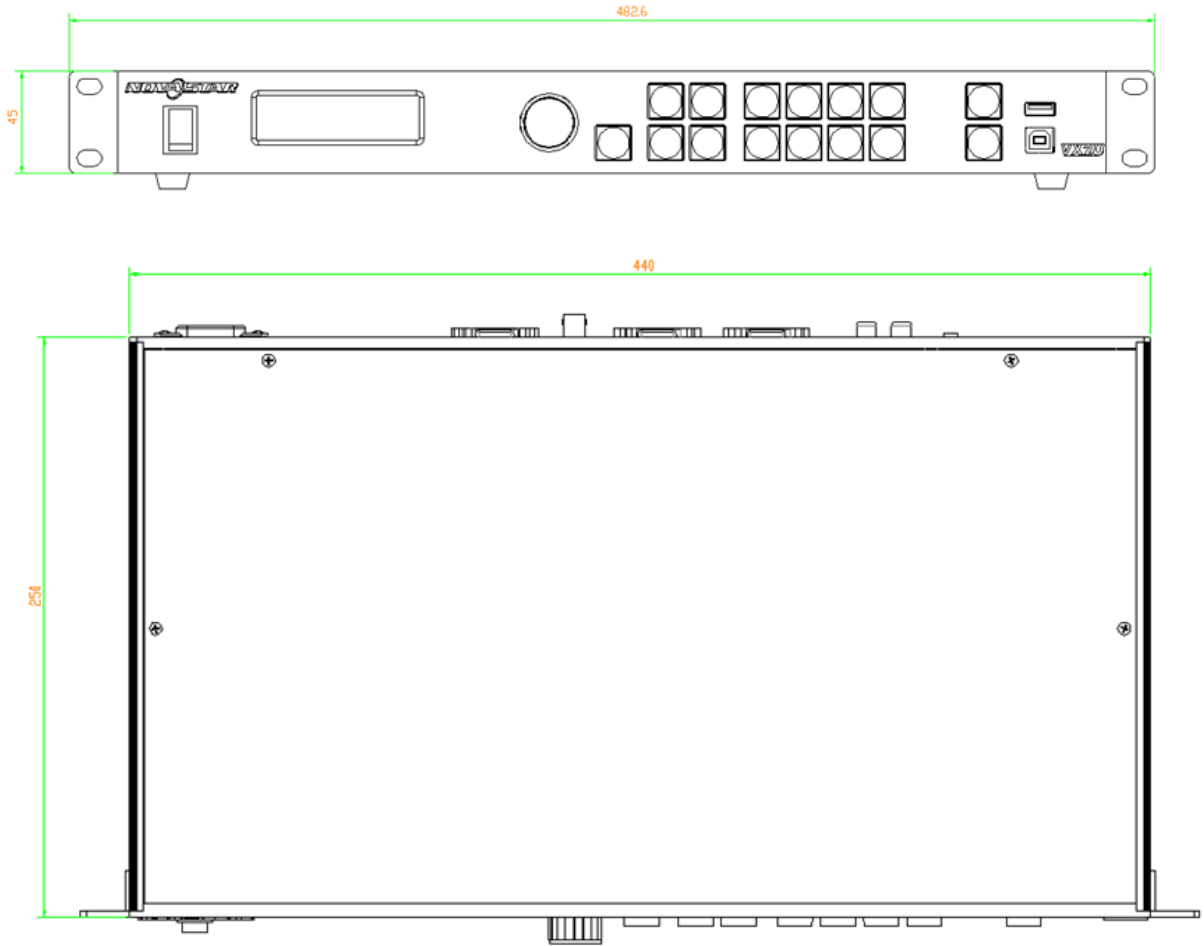
- 1) The inputs of VX2U include CVBS×2, VGA×2, DVI×1, HDMI×1 , DP×1 and USB×1. The supported input resolution is up to 1920×1200@60Hz. The input images of VX2U can be zoomed point-to-point according to the resolution of LED display.
- 2) With seamless quick switch and fade-in/ fade-out effects to enhance and present pictures of professional quality.
- 3) The location and size of PIP (Picture in Picture) can be adjusted, which can be controlled at will.
- 4) Adopts Nova G4 engine. The screen is stable and flicker free without scanning lines. Images are exquisite and have a good sense of depth.
- 5) Able to implement white balance calibration and color gamut mapping based on different features of LEDs used by screens to

ensure restoration of true colors.

- 6) HDMI/external independent audio input.
- 7) Supports high-bit video input, 10bit/8bit.
- 8) Loading capacity of video output: 1.3 million pixels.
- 9) Supports multiple controller montage for loading huge screen;
- 10) Supports Nova's new-generation pixel-by-pixel calibration technology and the calibration is fast and efficient.
- 11) Computer software for system configuration is not necessary. The system can be configured by one knob and one button. All can be done just by fingers. That's what we called **Touch Track**.
- 12) Adopts an innovative design to implement smart configuration. Screen settings can be completed within 30 seconds, which has greatly shorten the preparation time.
- 13) With an intuitive LCD interface and clear button indicator lights to simplify the control of the system.

# Dimensions

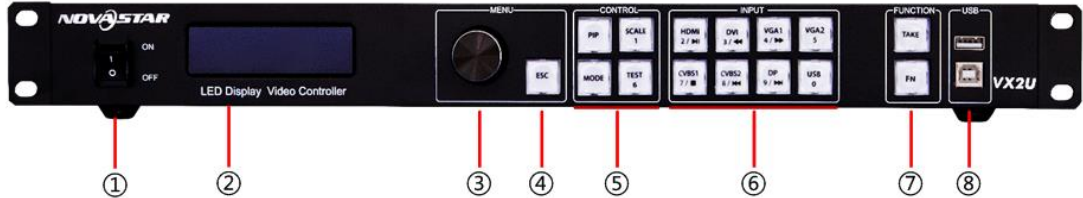
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(mm)

# Appearance

## Front panel



<p>①: <b>Power switch</b></p>	
<p>②: <b>Operation screen</b></p>	
<p>③: <b>Knob:</b> Pressing the knob indicates Enter or OK and rotating the knob means selection or adjustment.</p>	
<p>④: <b>ESC:</b> Escape current operation or option.</p>	
<p>⑤: <b>Four control shortcuts</b></p> <p><b>PIP:</b> PIP turn-on/turn off. The lighting of this key represents the turn-on of PIP; otherwise, PIP is turned off.</p> <p><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.</p> <p><b>MODE:</b> Shortcut menu of loading or storage of display model. The key is light when entering the model or shortcut menu, in case of exiting, the key is not bright.</p> <p><b>TEST:</b> Shortcut key of turn-on/turn-off of testing picture. In case of entering testing picture, the key is bright; otherwise, the key is not bright.</p>	<p>Note:</p> <p>You can enter numbers, such as layer size and offset value, by pressing the number buttons. The number button will be highlighted after pressed.</p>
<p>⑥: <b>Shortcuts for switching of 8 signal input sources</b></p> <p>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 while setting.</p>	
<p>⑦: <b>Function keys</b></p> <p><b>TAKE:</b> Shortcut for screen switching. After pressing TAKE key, PIP will be enabled. Switching between MAIN and PIP will be realized after it is enabled.</p> <p><b>Fn:</b> Custom shortcut.</p>	
<p>⑧: <b>Flat mouth</b> (Type A USB) is USB interface for connecting USB drive;</p> <p><b>Square mouth</b> (Type B USB) is USB control interface to connect PC for communication.</p>	

## Rear Panel



**Tips:** In order to improve user' s experience, the layout of the interfaces may be adjusted a little. The figure above is only for reference.

<b>Inputs</b>	
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
<b>Outputs</b>	
DVI LOOP	DVI Loop Output
Monitor -DVI OUT1	DVI Monitoring Interface 1
Monitor -DVI OUT2	DVI Monitoring Interface 2
LED Out 1, 2	2 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.
<b>Control</b>	
ETHERNET	Ethernet Control (Connect PC for communication or access network)
Square mouth(Type B USB)	USB Control (Connect PC for communication or USB cascade input)
Flat mouth(Type A USB)	USB cascade output
<b>Power</b>	
AC 100-240V ~ 50/60Hz	AC power interface

**Tip:** Type A USB interfaces on both the front and rear panel are not allowed to connect PC directly.

## Specifications

Input Index		
Port	Qty	Resolution Specifications
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	Qty	Resolution Specifications
DVI LOOP	1	Consistent with DVI input
DVI	2	Monitoring output connector Up to 1920×1200@60Hz output resolution
LED OUT	2	2 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.

Overall Specifications	
Input Power	AC100 ~ 240VAC, 50/60Hz
Overall Power Consumption	25W
Operating Temperature	-20~60°C
Dimensions	482.6mm × 250mm × 45mm
Package dimensions	550mm × 400mm × 175mm
Net weight	2.55 Kg
Total weight	5.6 kg

## Appendix

### Conflict list of PIP signal sources

		Input Source of Main Channel							
		HDMI	DVI	VGA1	VGA2	CVBS1	CVBS2	USB	DP
<b>PIP Input Source</b>	HDMI	Gray	×	√	√	√	√	√	√
	DVI	×	Gray	√	√	√	√	√	√
	VGA1	√	√	Gray	×	√	√	√	√
	VGA2	√	√	×	Gray	√	√	√	√
	CVBS1	√	√	√	√	Gray	×	√	√
	CVBS2	√	√	√	√	×	Gray	√	√
	USB	√	√	√	√	√	√	Gray	√
	DP	√	√	√	√	√	√	√	Gray

- √ 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.
- Gray denotes the main screen and PIP use the same input source.