VX4S

All in One Controller

V1.1.3

Specification

Overview

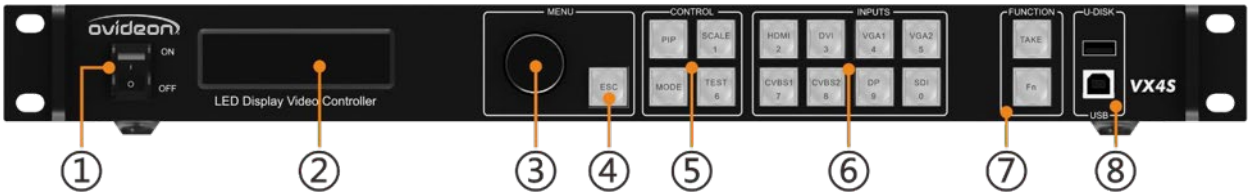
The VX4S is a professional LED display controller. Besides the function of display control, it also features in powerful front end processing, so an external scalar is no longer needed. With professional interfaces integrated, VX4S with excellent image quality and flexible image control greatly meet the needs of the broadcast industry, Its friendly in user-interface. so that the display to w ork has never been as easier and more enjoyable as with VX4S.

Feature

- The inputs of the VX4S include CVBS×2, VGA×2, DVI×1, HDMI×1 , DP×1 and SDI×1. They support input resolution up to 1920×1200@60Hz; the input images of VX4S can be zoomed point-to-point according to the screen resolution;
- Provide seamless high-speed switch and fade-in/ fad e-out effect so as to strengthen and display picture de monstration of professional quality;
- The location and size of PIP can both be adjusted, which can be controlled at will;
- Adopt the Nova G4 engine; the screen is stable and flicker free without scanning lines; the images are exquisite and have a good sense of depth;
- Can implement white balance calibration and color g amut mapping based on different features of LEDs u sed by screens to ensure reproduction of true colors;
- HDMI/external audio input;
- 10bit/8bit HD video source;
- The loading capacity: 2.3 million pixel;
- Support multiple controller montage for loading huge screen;
- Support Nova's new-generation point-by-point correction technology; the correction is fast and efficient;
- Computer software for system configuration is not necessary. The system can be configured using one knob and one button. All can be done just by finge rs. That's what we called Touch Track!
- Adopt an innovative architecture to implement smart configuration; the screen debugging can be complet ed within 30 seconds; greatly shorten the preparatio n time on the stage;
- A intuitive LCD display interface and clear button light hint 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 full screen zoom function; otherwise, full screen zoom function is unavailable.	You can enter numbers, such as layer size and offset value, by pressing the number buttons.

No.	Description	
	● MODE: Shortcut menu of loading or storage of display model. ● 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.	The number button will be highlighted after pressed.
⑥	**Shortcut keys for switching of 8 signal input source**. Short press to set as the main screen input source, and long press to set as PIP input source. The key is bright after press when the video source has signal; the key flashes when the input of video source has no signal. The setting result can be checked while setting on the display screen and LCD screen.	
⑦	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): Cascade output. ● **Square mouth** (Type B female USB): Connect to the PC for device control or cascade input.	

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.

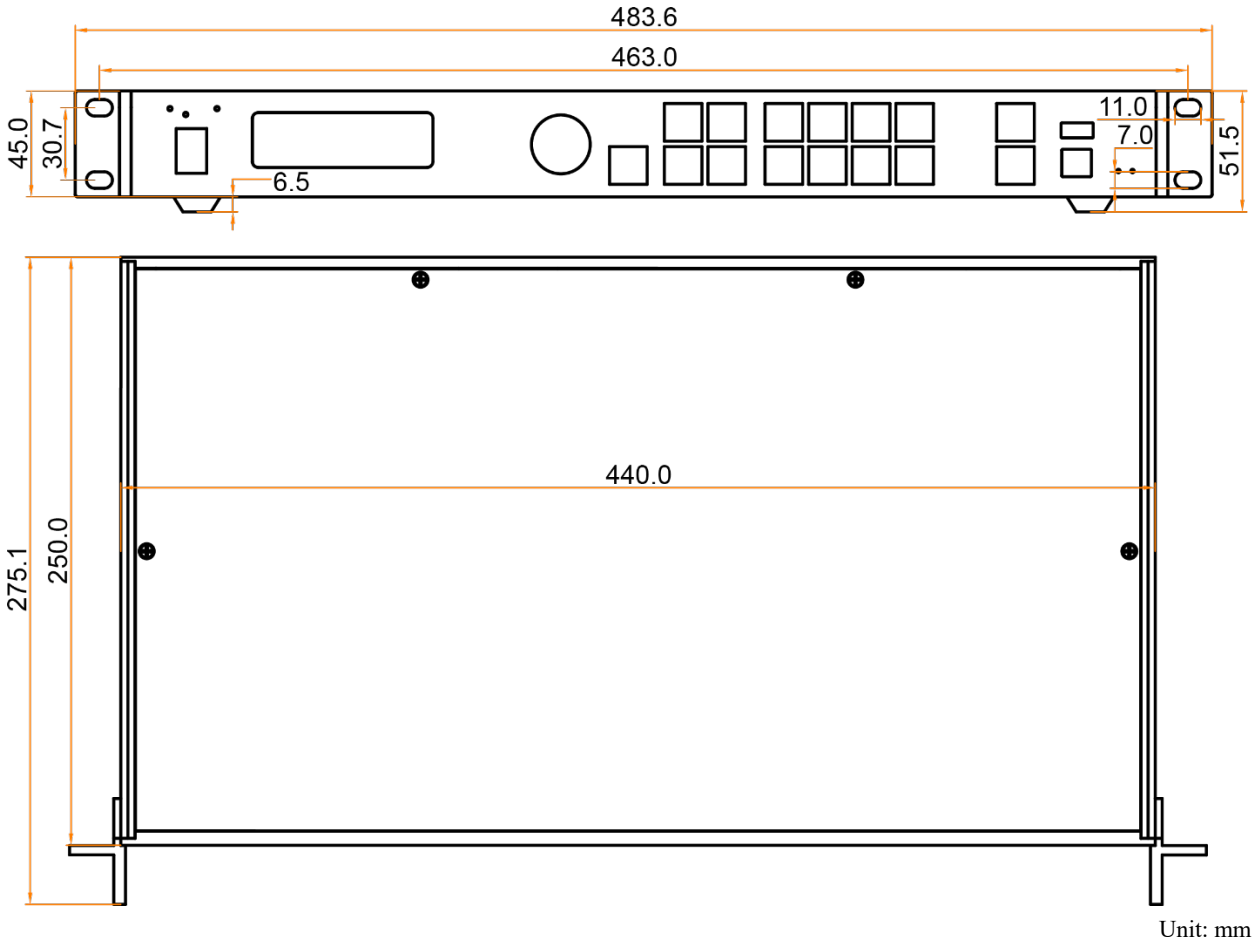
Input Source	
Audio	Audio Input
DP	DP Input
HDMI	HDMI Input
SDI IN	SDI Input
DVI	DVI Input
VGA1~VGA2	2 -Channel VGA Inputs
CVBS1~CVBS2	2-Channel PAL/NTSC TV composite video Input
Output Interface	
DVI LOOP	DVI LOOP Output
SDI LOOP	SDILOOP Output
Monitor – DVI1 OUT	DVI1 Monitoring output connector
Monitor – DVI2 OUT	DVI2 Monitoring output connector

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	Cascade OUT

Note:

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

Dimensions



Unit: mm

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
SDI	1	480i, 576i, 720P, 1080i/P
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 Up to 1920×1200@60Hz output resolution
DVI	1	
SDI LOOP	1	Consistent with SDI input
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.

Specification of complete machine		
Electrical specifications	Power connector	AC100-240V~, 50/60Hz
	Power consumption	25W
Operating environment	Operating temperature	-20℃ to 70℃
	Operating humidity	20%RH to 90%RH Non-condensing
	Storage humidity	10%RH to 95%RH Non-condensing
Physical specifications	Dimensions	483.6mm ×275.1mm × 51.5mm
	Package dimensions	2.55 kg
	Net weight	5.6 kg

Packing information	Carrying case	540mm × 140mm × 370mm
	Accessory box	1 × power cord, 1 × Ethernet cable, 1 × DVI cable, 1 × HDMI cable, 1 × DP cable, 1 × VGA cable and 1 × USB cable
	Packing box	555mm × 405mm × 180mm
Certifications		CE, RoHS, FCC, UL/CUL, RCM, CB, KC, EAC
Noise Level (typical at 25℃/77℉)		38dB（A）

Attachment

The Conflict List of PIP Signal Source.

		Input Source of Main Channel							
		HDMI	**DVI**	**VGA1**	**VGA2**	**CVBS1**	**CVBS2**	**SDI**	**DP**
PIP Input Source	**HDMI**	-	×	√	√	√	√	√	√
	DVI	×	-	√	√	√	√	√	√
	VGA1	√	√	-	×	√	√	√	√
	VGA2	√	√	×	-	√	√	√	√
	CVBS1	√	√	√	√	-	×	√	√
	CVBS2	√	√	√	√	×	-	√	√
	SDI	√	√	√	√	√	√	-	√
	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.

FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is oper ated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.
Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Official Website
www.ovideon.com

Technical Support
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