Specifications

LED Display Video Processor VX4S

General

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 meets the requirements of broadcast industry, in image quality and in control.

Feature

1) 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;

2) 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 fingers. That's what we called Touch Track!

3) The VX4S is the flagship product of our new generation controllers, powerful in processing, professional in control, and friendly in user-interface. Having a display to work has never been as easier and more enjoyable as with VX4S;

4) Adopts an innovative architecture to implement smart configuration; the screen debugging can be completed within 30 seconds; greatly

shorten the preparation time on the stage;

5) Provide seamless high-speed switch and fade-in/ fade-out effect so as to strengthen and display picture demonstration of professional quality;

6) The location and size of PIP can both be adjusted, which can be controlled at will;

7) A intuitive LCD display interface and clear button light hint simplify the control of the system;

8) Adopts 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;

9) Supports Nova's new-generation point-by-point correction technology; the correction is fast and efficient;

10) Can implement white balance calibration and color gamut mapping based on different features of LEDs used by screens to ensure reproduction of true colors;

11) HDMI/external audio input;

12) 10bit/8bit HD video source;
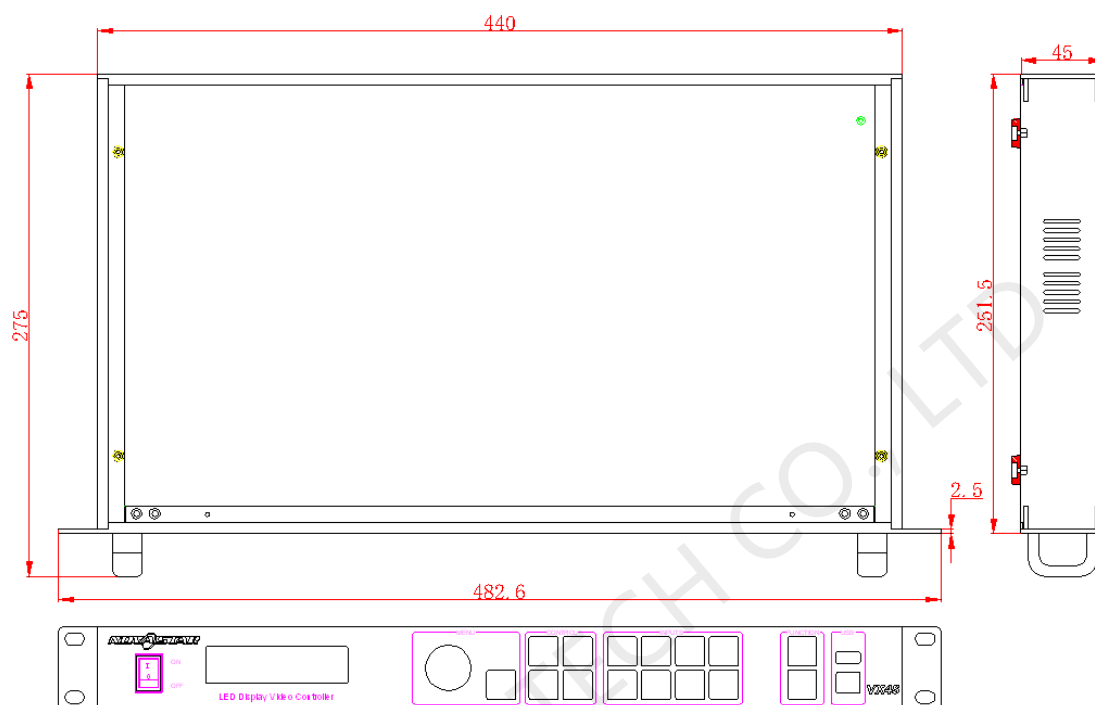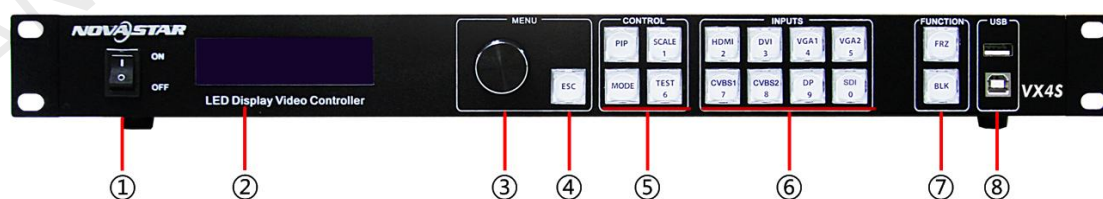
13) The loading capacity: 2.3 million pixel.
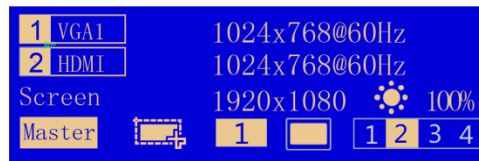
Dimension

Fig. 1 VX4S dimension（Unit：mm）

Appearance description

Front panel

①：Power switch.

② : **Operation screen:** 	**Line 1**: Main Screen 1. Signal Source, Signal Format of Input Source; **Line 2**: PIP2, Signal Source, Signal Format of Input Source; **Line3**: The width ,height and brightness of the screen; **Line 4**: Status bar, the meaning of each icon is described in the following:

Master It shows that the current controller is in main control; when Backup is displayed, it is backup.

 Zoom-out mode;

 Point-to-point display;

 Zoom-in mode.

Shut-off of PIP;	Opening of PIP;

 Forbidden use of stitch loading;

 Allowed use of stitch loading.

 Output Internet access (The current output is Internet access 2).

 Key lock icon, the appearance of this icon means the master interface is under the state of key and knob lock function.

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/Turn 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

MODE: 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.
TEST: Shit 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.
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 setting result can be checked while setting, as shown in the picture, the main screen source of current operation screen is VGA1, PIP source: HDMI.
⑦: Function keys FRZ: Screen Freeze turn-on/turn-off key, when it is turned on, the key is bright. BLK: Picture black screen turn-on/turn-off key, when it is turned on, the key is bright.
⑧: Flat mouth (Type A, female USB) is USB interface, which connects U disk; Square mouth (Type B female USB) is USB controlling interface, which connects PC Communication.

Back Panel

Note: In order to improve the user's experience, the layout of interface may be adjusted a little, and detailed information shall subject to the final product.

Input Source	
Audio	1 set of audio Input
DP	DP Input
HDMI	HDMI Input

SDI IN	SDI Input
DVI	DVI Input
VGA1~VGA2	2 lines of VGA Inputs
CVBS1~CVBS2	PAL/NTSC TV composite video Input
Output Interface	
DVI LOOP	DVI LOOP Output
SDI LOOP	SDILOOP Output
Monitor -VGA OUT	VGALOOP Output
Monitor -DVI OUT	DVILOOP Output
LED Out 1、2、3、4	4 lines of LED outputs
Controlling Interface	
ETHERNET	TCP/IP Control
Type B, female USB	USB Control，Communication with PC
Type A, female USB	USB cascade
Power	
AC 100-240V～50/60HZ	AC Power Interface

Specification Parameters

Input Index		
Port	**Number**	**Resolution Specification**
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	**Number**	**Resolution Specification**
DVI LOOP	1	Consistent with DVI input
VGA	1	1280×1024@60Hz 1440×900@60Hz
DVI	1	1680×1050@60Hz 1600×1200@60Hz 1600×1200@60Hz – Reduced 1920×1080@60Hz 2560×816@60Hz 2048×640@60Hz 1920×1200@60Hz 2304×1152@60Hz 2048×1152@60Hz 1024×1280@60Hz 1536×1536@60Hz Self-defined output resolution (Bandwidth optimization) Horizontal resolution maximum 3840 pixels Vertical resolution maximum 1920 pixels
SDI LOOP	1	480i、576i、720p、1080i/p Consistent with SDI input

Control Interface		
Port	**Number**	**Description**
USB	2	Control interface for host computer
RJ45	1	Communication interface for multiple computers

Specification of complete machine	
Input Power	AC100～240VAC，50/60Hz

Overall Power Consumption	16W
Operating Temperature	-20~60℃
Size	482.6×275×45（mm）
Weight	2.55 Kg

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	√	√	√	√	√	√	√	