



# Specifications Technology Video Contract

LED Display Video Controller VX400s

NovaStar Tech Co., Ltd. Xi Rev1.4.0 NS1 Yi'

# star Tech Co., Ltd. Overview

The VX400s is a NovaStar professional LED display video controller, featuring excellent display control and powerful front-end video processing capabilities. With outstanding image quality and flexible image control functions, the VX400s can greatly satisfy the user needs in media industry.

# **Features**

- 1) Provides a variety of video input connectors, including 2 x CVBS, 2 x VGA,  $1 \times SDI$ ,  $1 \times DVI$ ,  $1 \times HDMI$  and  $1 \times YPbPr$ . Input resolutions of some connectors can be up to 1080p@60Hz. You can freely scale the image based on the screen resolution.
- Tig. Xi, SU Monse 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.
  - JovaStar Tech C 3) Powerful image processing, professional image control and user-friendly UI design, allowing for an easy and convenient display control experience.
  - 4) Adopts an innovative architecture to implement smart configuration, allowing for the screen debugging to be completed within several minutes, which greatly shorten the preparation time on the stage.
  - 5) Provides seamless high-speed switch and fade-in/fade-out effect so as to strengthen and display picture demonstration of professional quality.
  - 6) The position and size of PIP can both be adjusted, which can be controlled at will.
  - 7) Visualized LCD screen and distinct button indicators simplifies system control operations.
  - 8) Adopts NovaStar G4 engine to realize a perfect display image with no flickering or scanning lines, as well as fine quality and good sense of depth.
  - 9) Adopts NovaStar new-generation calibration technology, allowing for a fast and efficient calibration process.
- NovaStar Tech Co. 10) Implements white balance calibration and color gamut mapping based on Ltd. different features of the LEDs used by different screens to ensure colors are faithfully reproduced.
  - 11) Supports HDMI/DVI video input and HDMI audio input.

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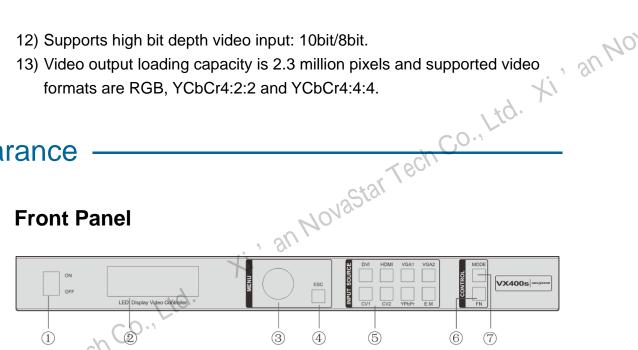
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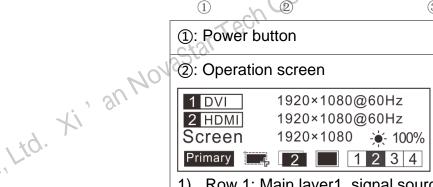
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- 12) Supports high bit depth video input: 10bit/8bit.
- 13) Video output loading capacity is 2.3 million pixels and supported video formats are RGB, YCbCr4:2:2 and YCbCr4:4:4.

# **Appearance**

## Front Panel





- Row 1: Main layer1, signal source and resolution
- 2) Row 2: PIP 2, signal source and resolution
- 3) Row 3: Screen width, height and brightness
- 4) Row 4: Status bar

The icon descriptions are as below.

NovaStar Tech Co., Ltd. Primary: The device is set as primary.

Backup: The device is set as backup.



Scale down

: Scale up

PIP off

PIP on

Image mosaic off

🗄: Image mosaic on

NovaStar Tech Cc : Output port (Ethernet port 2 is used for output)

All the buttons and knob are locked.

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③: Knob

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Press the knob to enter the operation menu screen.

Rotate the knob to select a menu item or adjust a parameter.

(4): ESC button

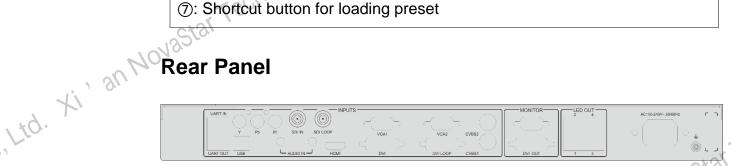
Press the button to exit the current menu or cancel the operation.

(5): 8 input source buttons

Press the button to set the input source of main layer. Hold down the button to set the input source of PIP. The setting result can be viewed on the operation screen.

In the above figure, the input source of main layer is VGA1 and the input source of PIP is HDMI.

- 6: Fn button for entering the related menu screen
- 7: Shortcut button for loading preset



Note: To improve user experience, the connector layout may be adjusted.

Product images in this document and in the doc Product images in this document are for reference only.

	Input	Ki, W.				
	Audio In	1 × Audio input connector				
	HDMI	HDMI input connector				
	YPbPr	YPbPr input connector				
	SDI XI SU MOASS	3G-SDI input connector				
		De-interlacing supported				
	DWid	DVI input connector				
Tech	VGA1–VGA2	VGA input connector				
NovaStar Tech C	CVBS1	PAL/NTSC-compliant composite video input				
, Ro	CVBS2	PAL/NTSC-compliant composite video input				

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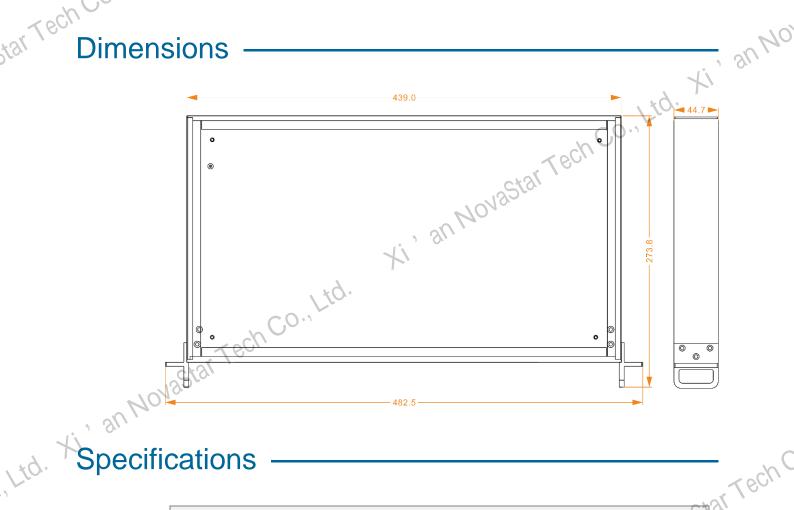
zach O							
tarTech	Output						
	SDI LOOP	SDI loop output connector					
	DVI LOOP	DVI loop output connector					
	Monitor -VGA OUT	VGA monitoring connector					
	Monitor -DVI OUT	DVI monitoring connector					
	LED Out 1, 2, 3, 4	4 Gigabit Ethernet output connectors. Only Ethernet port 1 supports audio output. When the multifunction card is connected for audio decoding, the multifunction card must be connected to the Ethernet port 1.					
	Control						
Mo	UART IN	Used as input for device cascading					
Tig. Xi, SW MON	UART OUT	Used as output for device cascading					
Tig.	USB	For communication with PC					
- 1	Power	· avaStal					
	AC 100-240V-50/60Hz	AC power connector					

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# **Dimensions**



cations		Description \( \text{i} \)	Tech
Input		Monagia	
Connector	Qty	Description	
CVBS	2	PAL/NTSC Ltd.	
VGA	2	VESA standard Resolution up to 1080p@60Hz	
SDI	1 <sub>an</sub> No	480i, 576i, 720P, 1080i/P	
DW.id.	1	VESA standard (1080i input supported ) HDCP compliant	
HDMI	1	EIA/CEA-861 standard, HDMI 1.3 standard compliant HDCP compliant	ti
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tsi Leci,	YPbPr	1		Resolution up to 1080p@60Hz								
	Overall	Overall				1						
	Power co	onnector		AC10	0-240	)V~, 50			-0:1L	td.		
	Overall consumption			35 W								
	Operating temperature			-20°C-60°C								
Appendan Air, an Mor	Dimensions			482.5 mm × 273.8 mm × 44.7 mm								
	Weight		Lid	3.09 I	кg							
Annan	div. 1	sch Co	* 9									
Appen	13251											
, an No	Conflict	List for F	PIP Inp	ut Sou	ırce							
, Xi	Input Source of Main Layer											
Tio.			HDMI	DVI	SDI	VGA1	VGA2	CVBS1	CVBS2	YPbPr		
					,	,	,	1	,	1351		

# **Conflict List for PIP Input Source**

1 00											
Lid. Xi			Input Source of Main Layer								
Tio.			HDMI	DVI	SDI	VGA1	VGA2	CVBS1	CVBS2	YPbPr	
		HDMI	-	×	√	√	<b>√</b>	<b>V</b>	14	01325	
		DVI	×	F	1	√	√	1	34	<b>V</b>	
		SDI	<b>√</b>	1	-	√	√	1	√	√	
	PIP	VGA1	√	1	<b>√</b>	-	/xd·	√	√	√	
	Input Source	VGA2	<b>√</b>	1	1	$^{\mu}$ $\sim_{o}$	-	√	√	√	
		CVBS1	√	5/3	1	<b>√</b>	√	-	×	√	
		CVBS2	MO,	1	<b>V</b>	√	√	×	-	√	
	4	YPbPr	<b>V</b>	√	<b>V</b>	√	√	<b>√</b>	<b>√</b>	-	
Novastar Tech	● √: M: ● ×: M: ● -: Ma	ain layer a ain layer a ain layer a	and PIP	canno	ot use	the inp	ut sour	ce simult			
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