V1260

LED Video controller

V1.0.3

Novastar All in One video controller

Specification

Update history

Document version	Release time	Revised note
V1.0.3	2020-11-02	Update accessories information.
V1.0.2	2020-07-15	Product appearance change.
V1.0.1	2020-06-04	• Product name change. • Add soft writing information. • Add authentication information.
V1.0.0	2019-08-15	First official release

Introduction

V1260 is nova's latest launch of a All-in-One product, which integrates video processing, video control and LED screen configuration functions, with a variety of video signal reception capabilities, ultra-high-definition full 4 K×2 K@60Hz image processing capabilities and transmission capabilities.

V1260 can send the processed video to the LED display through the network port and the optical fiber port.V1260 adopts industrial shell, has powerful video processing and sending ability, can adapt to complex operating environment, and is widely used in government, enterprises and institutions, military command center and other large fixed installation occasions.

Characteristics

- Complete video input interface

  G-SDI .1 HDMI 2.0,4 DVI ,1 Road

- Multi-output, large load

  Support 16-channel network ports and 4-channel fiber output with load up to 10.4 million pixels.

- Support HDR output

  Can greatly enhance the quality of the display screen, make the screen color more real and vivid, more clear details.

- Support for personalized scaling

  Support three screen scaling modes, including point-to-point mode, full-screen scaling, custom scaling.

- Multi-window display

  Support 5 windows arbitrary layout.

- Support for monitoring output images

  sends the monitoring content through the HDMI to the display.

- Support intelligent control software NovaLCT operation control.

- Support scenario presets

  Up to 10 user scenarios can be created as templates to save, can be called directly, easy to use.

- Support EDID management

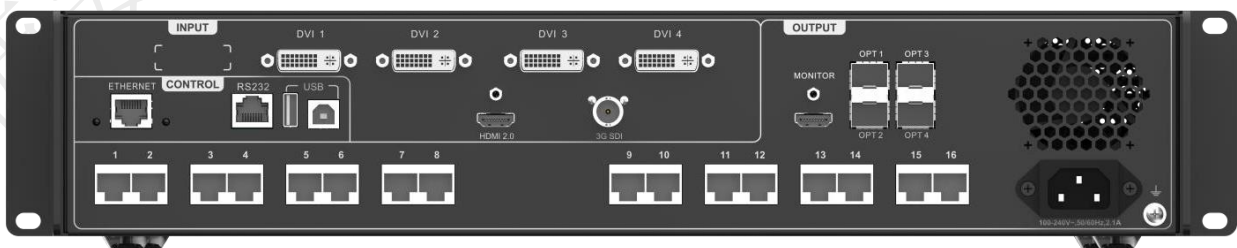 Support user-defined EDID and preset EDID.

Appearance

Front panel

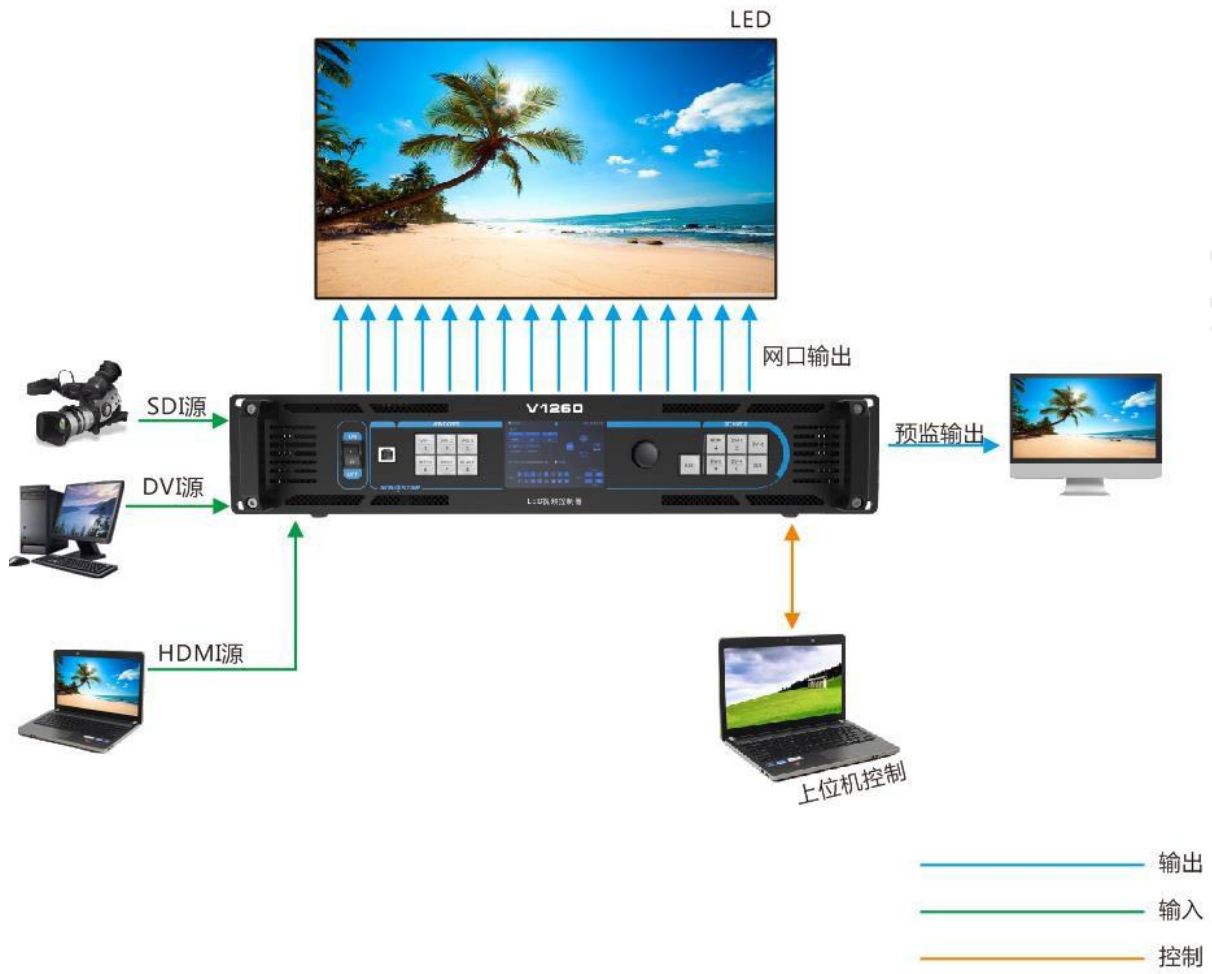| Press button	Note
Opening key	ON boot/ OFF shutdown
USB-B	Connect PC, debug equipment.
Layer Control Key	• When the window is not open, press the window button to enter the corresponding window properties menu and open the window. • When the window is open, press the window button to enter the corresponding window properties menu. • When the window is open, press the window button to close the window. Key lamp status: • The button light indicates that the layer is on. • The keystroke light indicates that the layer is off. • When the key lamp flashes, it represents the layer editing. SCALE key: full screen automatic zoom shortcut key, the lowest priority and open window adaptive spread to the full screen.
TFT screen	Used to display the current state of the device, as well as the settings menu.
Knob	• Under the main interface, press the knob to enter the menu operation interface. • Under the menu operation interface, rotate the knob to select the menu, press the knob to select the current menu or enter the submenu. • After selecting the menu with parameters, you can adjust the parameters by rotating the knob. Please note that you need to press the knob again to confirm the adjustment. • At the same time long press knob and ESC key 3 seconds and above, key lock or unlock.
Return key	Exit the current menu or cancel the operation.
Input source	Input source switch key and input source signal status. • Indicator off: no input source signal access, input source is not used. • Indicator light half-light: input source signal access, input source is not used. • All lights: input source signal access, input source has been used. • Indicator flicker: no input source signal access, input source has been used. Note: select the window before switching the signal source. If the unchecked window will jump directly to the input source settings interface.

Back panel

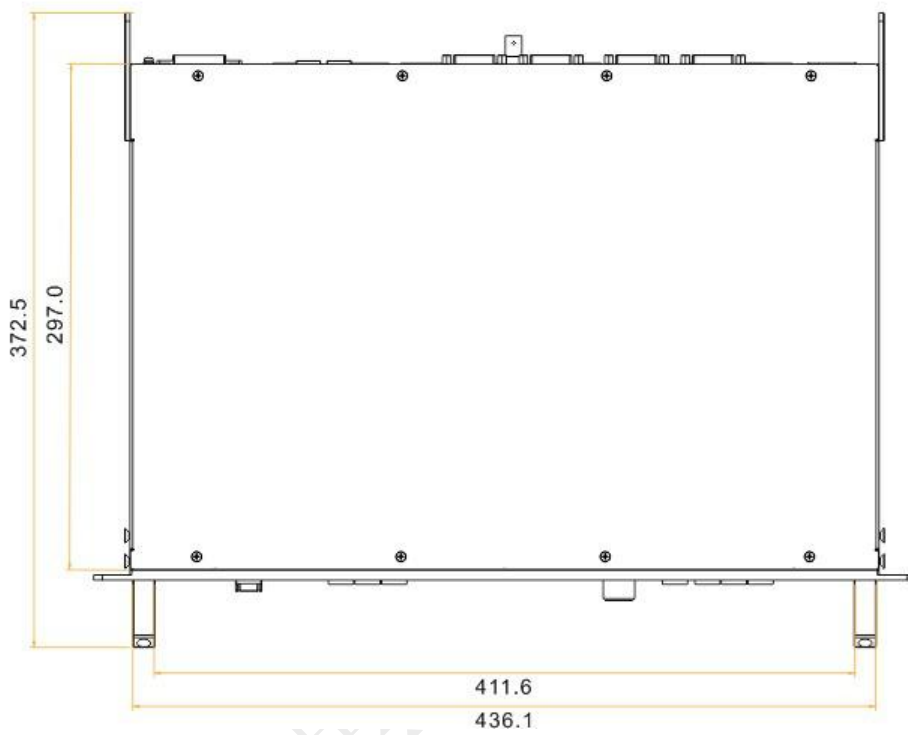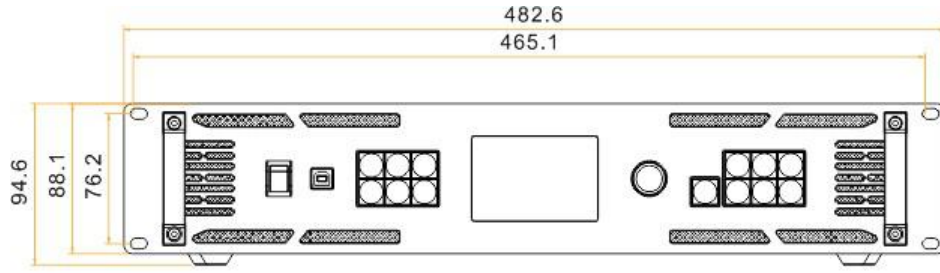| Input interface		
Interface	Quantity	Note
DVI	4	• Maximum single input resolution ×SL -DVI 1920×1200@60 Hz. input • Support for custom resolution.

		Limit width :2048, limit height :2048.
		• HDCP 1.4. support
		• Interlacing signal input is not supported.
HDMI 2.0	1	• ×HDMI 2.0, Maximum input resolution 3840×2160@60 Hz.
		• Support for custom resolution.
		Limit width :81922, limit height :81922.
		• Support HDCP 1.4 and EDID 1.4.
		• Interlacing signal input is not supported.
3G-SDI	1	• One ×3 G-SDI input, maximum resolution 1920×1080@60 Hz.
		• Input resolution settings are not supported.
		• Support for interlaced signal input, and support for deinterlacing processing.

Output Interface

Interface	Quantity	Note
LAN port	16	• 16 Gigabit port output.
		• The maximum load is 10.4 million pixels.
		• Limit width :16384, limit height :8192.
		• The maximum load of a single network port is:
		– Input source bits are 8 bit ,650000 pixels.
		– at input source bits of 10 bit/12bit ,320000 pixels.
		• Audio output is not supported.
OPT1~4	4	Four channels 10 G fiber output interface.
		• OPT1 transmission of 1~8 network port data.
		• OPT2 transmission of 9~16 network port data
		• OPT3 is a replication channel for OPT1 or 1~8 channels.
		• OPT4 is a OPT2 or 9~16 channel network port replication channel.
MONITOR	1	HDMI interface, pre-monitoring output, support 1920×1080@60 Hz resolution.

Control interface

Interface	Quantity	Note
ETHERNET	1	Connect PC communication (only for debugging).
USB	1	• USB 2.0(Type-B, square port): connect PC, debug device, device cascade input.
		• USB 2.0(Type-A, flat port): device cascade output.
RS232	1	Connect the central control equipment.

Application scenarios

Size

Tolerance : ±0.3   Unit: mm

Product specifications

Electrical specifications	Power interface	AC100V ~240 V 50/60Hz
	Power consumption	50W
Working environment	Temperature	0℃～50℃
	Humidity	0 RH ~95 RH per cent
Storage environment	Temperature	-20℃～60℃
	Humidity	0 RH ~95 RH per cent
Physical specifications	Size	482.6 mm×372.5 mm×94.7 mm
	Net	6.2kg
	Total	9.5 kg
	Noise parameters	45 dB (A)
Packaging information	Cartons	530.0 mm×420.0 mm×193.0 mm
	Attachment box	405.0 mm×290.0 mm×48.0 mm accessories :1× national standard power cord ,1×USB wire ,4×DVI wire ,1×HDMI wire ,1 quick guide ,4 silicone dust proof plug.
	Large outer box	550.0 mm ×440.0 mm ×215.0 mm
Certification information	Has passed the CCC certification.	

Video source characteristics

Input interface	Deep colour		Maximum input resolution
HDMI 2.0	bit 8	RGB4：4：4	3840×2160@60 Hz
		YCbCr4：4：4	3840×2160@60 Hz
		YCbCr4：2：2	3840×2160@60 Hz
		YCbCr4：2：0	Not support
	bit/12bit 10	RGB4：4：4	1920×1080@60 Hz
		YCbCr4：4：4	1920×1080@60 Hz
		YCbCr4：2：2	3840×2160@60 Hz
		YCbCr4：2：0	Not support
S-DVI	bit 8	RGB4：4：4	1920×1080@60 Hz
3G-SDI	Maximum input resolution :1920×1080@60 Hz. Note:If the input source is 3G-SDI,setting the input resolution is not supported.		