

PRODUCT SPECIFICATION

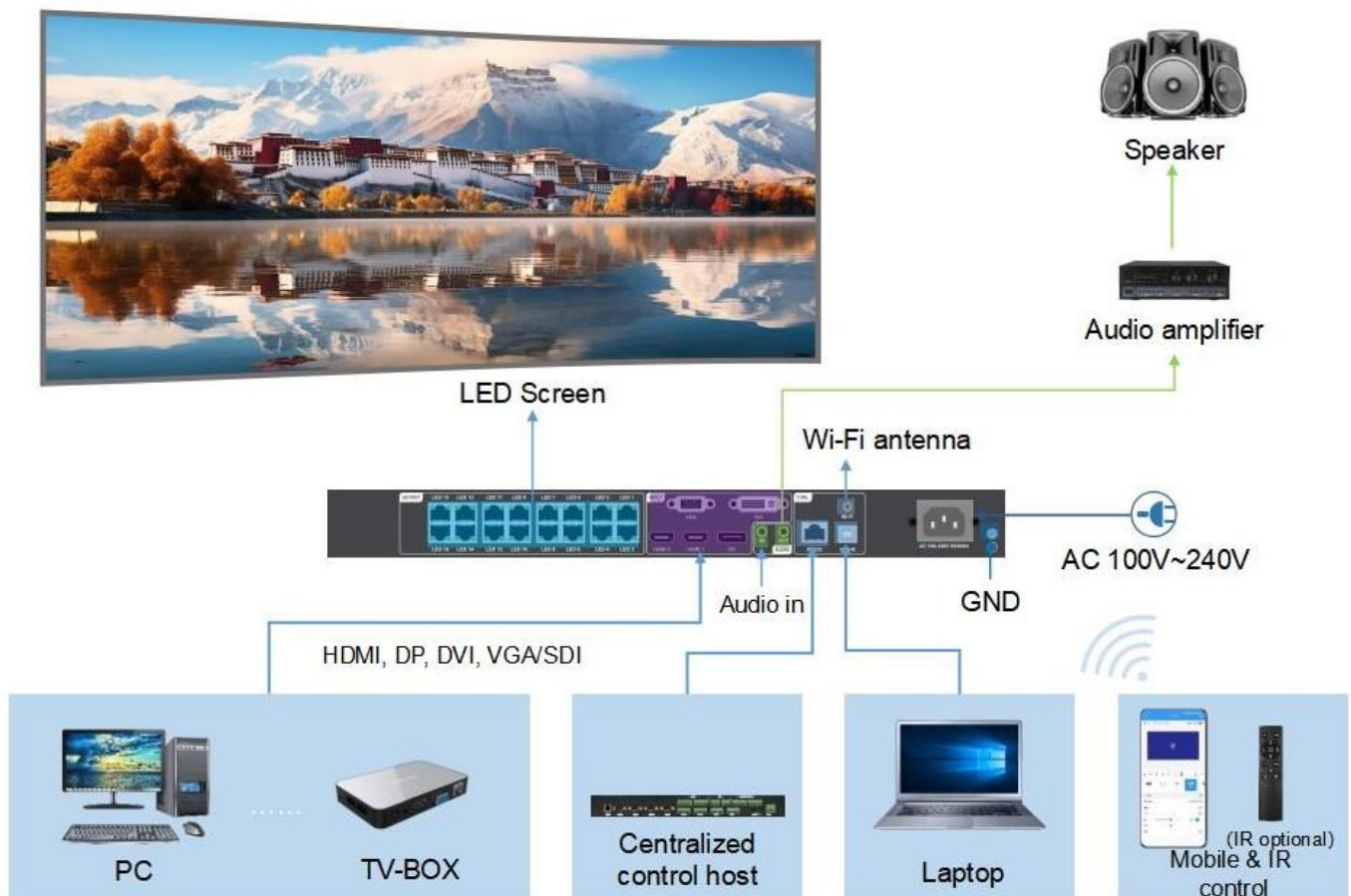
All-in-one LED Controller
HD-VP1620S

V1.0

1. System Overview

HD-VP1620S is a 2-in-1 video processor, integrating traditional video processor and 16-channel Gigabit Ethernet port output. It not only simplifies the construction of field environment, but also improves the reliability of the product. It supports 5-way synchronous signal input, which can be used in hotels, shopping malls, conference rooms, display exhibitions, studios and other occasions where synchronous playback is required; in addition, the device also supports point-to-point input/output, so that the LED display can show a clearer picture.

2. Connection Diagram



3. Product Features

Input

- Supports maximum 4096×2160@60Hz synchronized signal input;
- Supports 2-way HDMI, 1-way DP, 1-way DVI, 1-way VGA signal input, multi-channel video signal switching at will;
- Supports 1 TRS 3.5mm standard dual-channel audio input and HDMI/DP audio input.

Output

- Supports two-screen layout and maximum 2×4K size window;
- Comes standard with 16-channel Gigabit network port and direct cascade receiver card;
- Maximum control of 10.4 million pixels, horizontal maximum support for 16,000 pixels, vertical maximum support for 4,000 pixels;
- 1 road TRS 3.5mm standard dual-channel audio output.

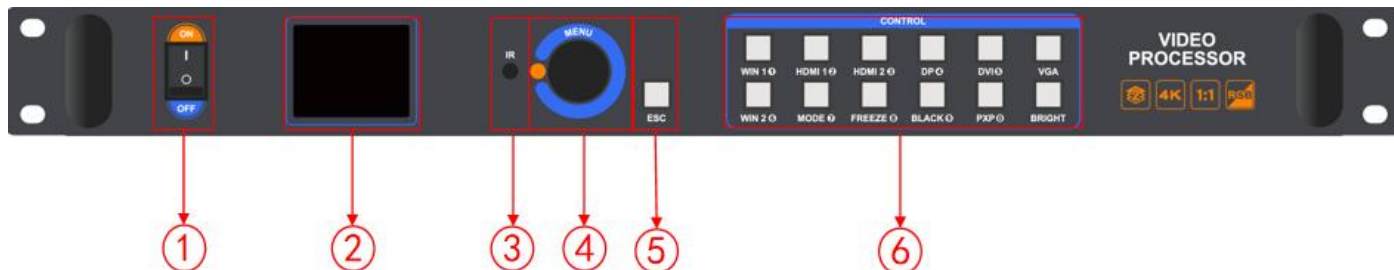
Features

- Video signal arbitrary switching, cropping, scaling;
- Support 16 scene presets and call;
- Support brightness adjustment, color temperature adjustment and key lock function;
- Supports arbitrary overlapping of network ports and non-rectangular bandwidth;
- Support point-to-point display, limited to fully;
- Support RS232 serial port protocol control, docking center control equipment;
- Support Wi-Fi Station mode, AP mode, Wi-Fi Station+AP mode;
- Supports cell phone APP wireless control;
- Supports infrared remote control (optional);
- Supports SDI (optional);
- Supports Wi-Fi remote call.

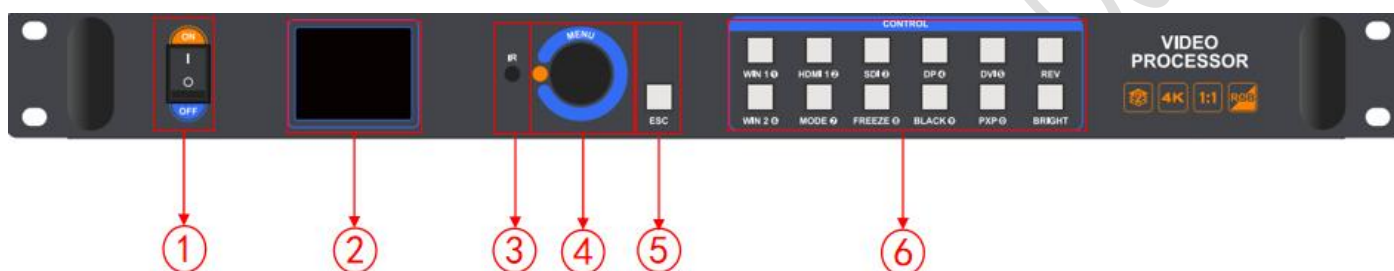
4. Appearance Description

Front panel:

Standard model front panel:



SDI model front panel:



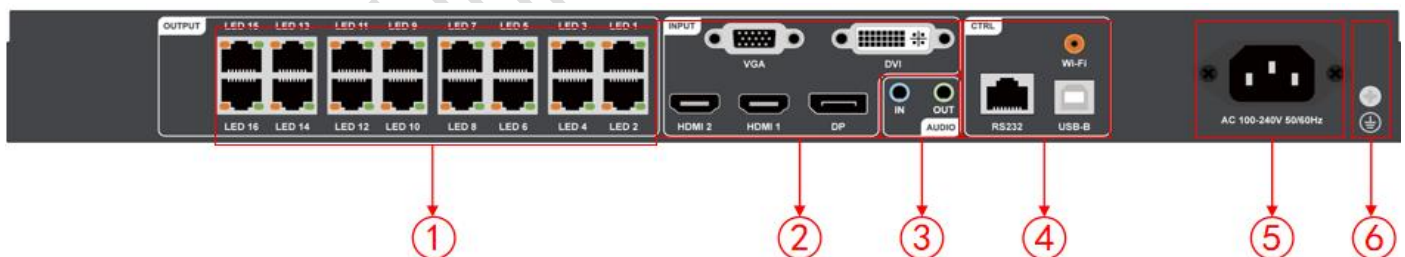
Key Description

No.	Button	Description
1	Power switch	Controls AC power input
2	LCD DISPLAY	Debugging display menus, screen parameters and other information
3	IR	Receive infrared remote control
4	MENU KNOB	Press the knob to enter a sub-menu or to confirm a selection
5	ESC	Exit key /Back key
6	WIN1~WIN2	Selection of opened screen windows Function key: key multiplexing function for digital selection, generally used when setting resolution
	HDMI1	Select HDMI1 signal to play Function key: key multiplexing function for digital selection, generally used when setting resolution
	HDMI2(SDI)	Select HDMI2(SDI) signal to play Function key: key multiplexing function for digital selection, generally used when setting resolution

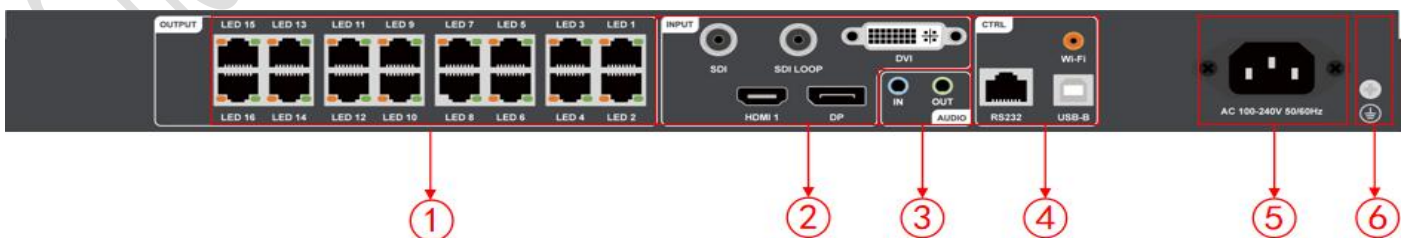
DP	Select DP signal playback Function key: key multiplexing function for digital selection, generally used when setting resolution
DVI	Select DVI signal playback Function key: key multiplexing function for digital selection, generally used when setting resolution
VGA (REV)	Selection of VGA signal playback (reserved function)
MODE	Quickly call up the preset mode recall menu Function key: key multiplexing function for digital selection, generally used when setting resolution
FREEZE	One-touch freeze button Function key: key multiplexing function for digital selection, generally used when setting resolution
BLACK	One Touch Black Screen Button Function key: key multiplexing function for digital selection, generally used when setting resolution
PXP	Quick access to the two-screen layout menu Function key: key multiplexing function for digital selection, generally used when setting resolution
BRIGHT	Quickly recall the brightness setting button

Rear panel:

Standard model rear panel:



SDI model rear panel:



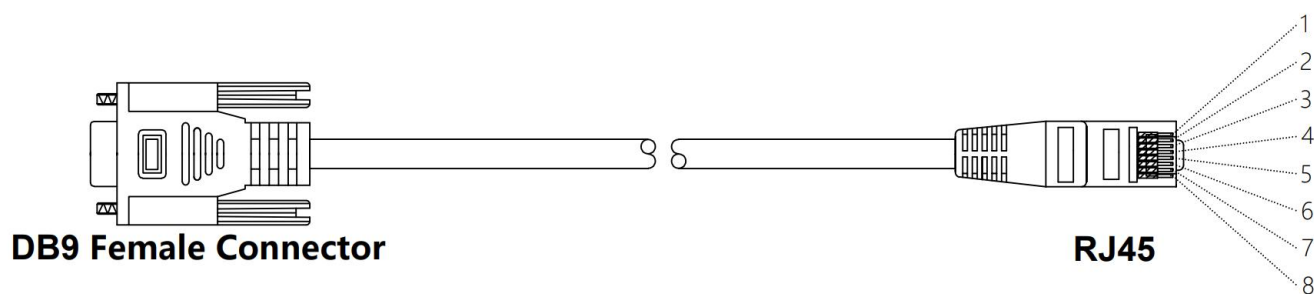
Input Interface			
No.	Interface name	Quantity	Description
2	DP1.2	1	DP input interface Interface type: DP Signal standard: DP 1.2 Backward Compatibility Resolution: VESA standard, $\geq 720 \times 480 @ 60\text{Hz}$, $\leq 4096 \times 2160 @ 60\text{Hz}$ Support color space: RGB4:4:4/YCbCr4:4:4 Support color depth: 8bit/10bit Support limit width: 4096 Limit height: 4096 Supports accompanying audio
	HDMI1~2	2	HDMI 2.0 input interface $\times 1$ (HDMI 1) Interface type: HDMI-A Signal standard: HDMI 2.0 backward compatible Resolution: VESA standard, $\geq 800 \times 600 @ 60\text{Hz}$, $\leq 4096 \times 2160 @ 60\text{Hz}$ HDMI 1.4 Input interface $\times 1$ (HDMI 2) Interface type: HDMI-A Signal standard: HDMI 1.4 backward compatible Resolution: VESA standard, $\geq 800 \times 600 @ 60\text{Hz}$, $\leq 4096 \times 2160 @ 30\text{Hz}$ Support color space: RGB4:4:4/YCbCr4:4:4 Support color depth: 8bit/10bit Support limit width: 4096 Limit height: 4096 Supports accompanying audio
	DVI	1	DVI input port Interface type: DVI-I socket Signal standard: DVI 1.0, HDMI 1.3 Backward Compatibility Resolution: VESA standard, $\geq 800 \times 600 @ 60\text{Hz}$, $\leq 1920 \times 1200 @ 60\text{Hz}$ Supported maximum width: 2048 Maximum height: 2048
	VGA	1	VGA input Interface type: DB15 socket Signal standard: R, G, B, Hsync, Vsync: 0 to 1Vpp $\pm 3\text{dB}$ (0.7V Video+0.3v Sync) 75 ohm black level: 300mV Sync-tip: 0V Resolution: VESA standard, $\geq 720 \times 480 @ 60\text{Hz}$, $\leq 1920 \times 1080 @ 60\text{Hz}$
	SDI	1	SDI Input Interface type: BNC Signal standards: SD-SDI, HD-SDI, 3G-SDI

			Resolution: VESA standard, ≤1920×1080@60Hz
3	AUDIO IN	1	TRS 3.5mm dual channel audio input interface
5	Power Supply	1	AC 100 ~ 240V 50/60Hz

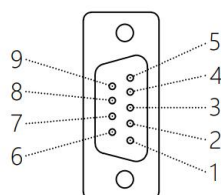
Output Interface			
No.	Interface name	Quantity	Description
1	Gigabit Ethernet	16	Used for cascading receiving cards, transmitting RGB data stream, each network port controls 650,000 pixels , supports docking multi-function cards
2	SDI-LOOP	1	SDI signal loop-out interface Interface type: BNC Signal standards: SD-SDI, HD-SDI, 3G-SDI Resolution: VESA standard, ≤1920 × 1080@60Hz
3	AUDIO OUT	1	TRS 3.5mm dual channel audio output interface Connect to an audio amplifier for high-power external speakers
6	Grounding interface	1	Anti-static/leakage protection, personal safety and equipment normal operation

Control interface			
No.	Interface name	Quantity	Description
4	RS232	1	RJ45 interface, connected to the central control device
	USB-B	1	Connect to computer for debugging equipment
	Wi-Fi antenna interface	1	Connect a Wi-Fi antenna to enhance Wi-Fi signal

* The RJ 45 to DB9 cable diagram is as follows. It is optional. If you need it, please contact Huidu sales or technical support in advance.



Line Ordering:



DB9 female connector

RJ45 connector

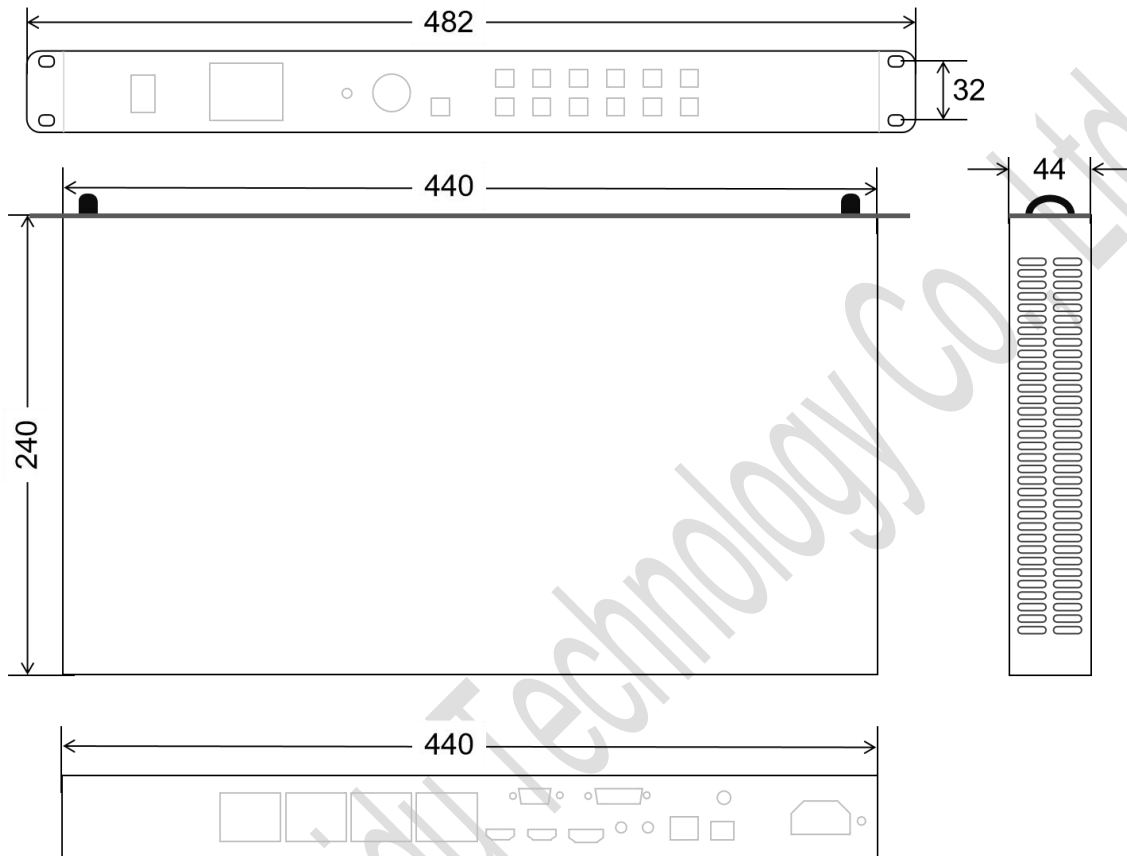
2-RX	TX-1(Red)
3-TX	RX-2(Blue)
5-GND	GND-3(Black)

* The schematic diagram of the remote control is as follows. It is optional. If you need it, please contact Huidu sales or technical support in advance.



5. Product Size

Unit: mm



6. Basic Parameters

Parameters		Parameter Value
Chassis specifications		1U Standard
Electrical Specifications	Power supply	AC 100 ~ 240V 50/60Hz
	Power consumption	50W
Work Environment	Working temperature (°C)	-20 °C ~55 °C
	Working humidity (RH)	20%RH~90%RH (no condensation)
Storage Environment	Storage temperature (°C)	-20 °C ~60 °C

	Storage humidity (RH)	10%RH~95%RH (no condensation)
Equipment Specifications	Size	W×H×D/482mm×44mm×240mm
	Net weight	3 kg
Packing specifications	Packing size	W×H×D/ 515mm×82mm×355mm
	Packing weight	4.1 kg
Packing List	HD-VP 1620S	1PCS
	USB cable	1PCS
	HDMI cable	1PCS
	DVI cable	1PCS
	Power cord	1PCS
	Wi-Fi Antenna	1PCS
	Certificate	1PCS

illustrate:

1. Welcome to choose Huidu Technology products. There may be slight differences between the product pictures in the specifications and the actual appearance (including the number of holes in the product size diagram, etc.). If you have any questions, please contact technical support or salesperson for confirmation.