

PRODUCT SPECIFICATION

Two-in-One Video Processor
HD- VP820A

1. System Overview

HD-VP820A is a two-in-one video processor that integrates a traditional video processor and 8 -way Gigabit Ethernet output. It not only simplifies the on-site environment construction, but also improves the reliability of the product. It supports 5- way synchronous signal input and can be used in hotels, shopping malls, conference rooms, exhibitions, studios and other occasions that require synchronous playback; in addition, the device also supports point-to-point input/output, allowing the LED screen to display clearer images.

2. Connection Diagram



3. Product Features

Input

- Supports up to 4096*2160 @60Hz synchronous signal input ;
- Supports 2-channel HDMI, 1-channel DP, 1-channel DVI, and 1-channel VGA signal input, and can switch multiple video signals at will;
- Supports 1-way TRS 3.5mm standard dual-channel audio input and HDMI /DP audio input.

Output

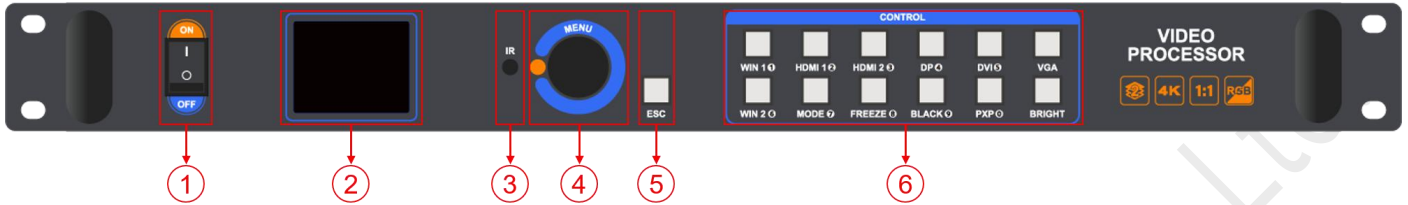
- Supports two-screen layout, maximum support 2×4K windows;
- Standard 8-channel Gigabit network port, directly cascade receiving card;
- The maximum control is 5.2 million pixels, the maximum horizontal support is 8192 pixels, and the maximum vertical support is 4000 pixels ;
- 1 TRS 3.5mm standard two-channel audio output.

Functions

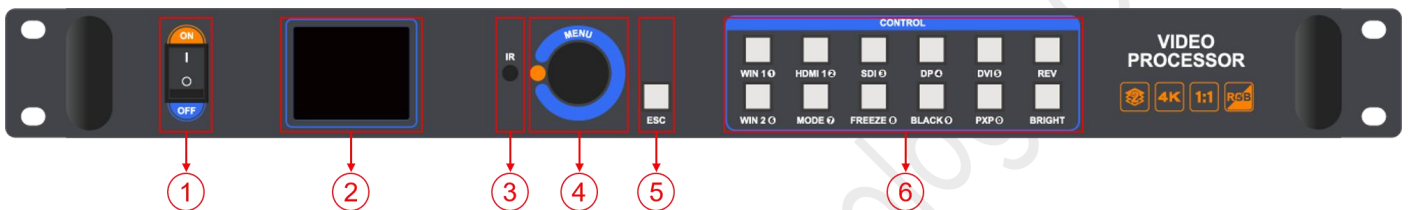
- Video signals can be switched, cropped, and scaled at will;
- Support 16 scene presets and calls ;
- Support brightness adjustment, color temperature adjustment and key lock functions ;
- Support arbitrary overlapping of network ports and non-rectangular load;
- Support point-to-point display and limited to full conversion;
- Support RS232 serial port protocol control and docking with central control equipment;
- Support Wi -Fi Station mode, AP mode, Wi-Fi Station + AP mode;
- Support mobile phone APP wireless control;
- Support infrared remote control (optional);
- Support SDI (optional);
- Support 4G (customized).

4. Appearance Description

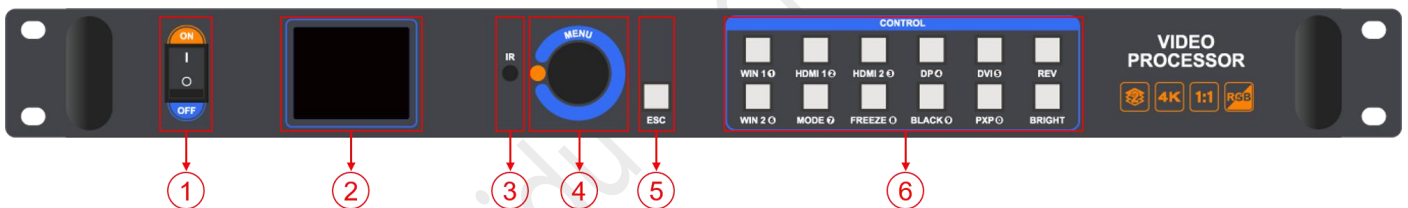
Standard front panel:



SDI front panel:



4G model front panel:

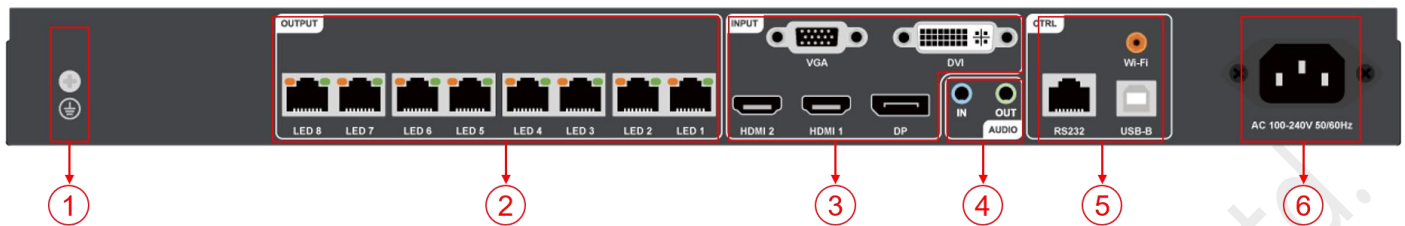


Key Description

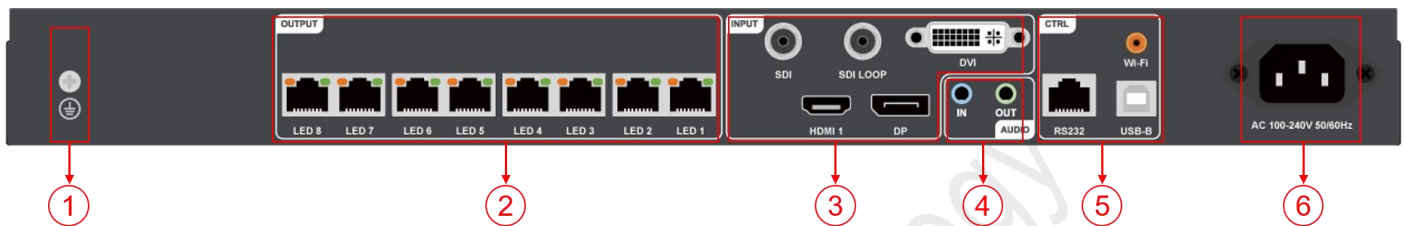
Serial number	button	illustrate
1	Power switch	Control AC power input
2	LCD display screen	Debug display menu, screen parameters and other information
3	IR	Receive infrared remote control (optional)
4	MENU knob	Press the knob to enter a submenu or confirm a selection Rotate the knob to select menu items or adjust parameters
5	ESC	Exit key /Back key
6	WIN1~WIN2	Select an open window Function key: The key multiplexing function is digital selection, generally

		used when setting the resolution
HDMI1	Select HDMI 1 signal playback Function key: The key multiplexing function is digital selection, generally used when setting the resolution	
HDMI2	Select HDMI 2 signal playback Function key: The key multiplexing function is digital selection, generally used when setting the resolution	
DP	Select DP signal to play Function key: The key multiplexing function is digital selection, generally used when setting the resolution	
DVI	Select DVI signal playback Function key: The key multiplexing function is digital selection, generally used when setting the resolution	
VGA(REV)	Select VGA signal playback (SDI/4G models do not have VGA, and the REV button is reserved but has no actual function)	
MODE	Quickly call up the preset mode call menu Function key: The key multiplexing function is digital selection, generally used when setting the resolution	
FREEZE	click freeze button Function key: The key multiplexing function is digital selection, generally used when setting the resolution	
BLACK	One-touch black screen button Function key: The key multiplexing function is digital selection, generally used when setting the resolution	
PXP	Quickly enter the two- screen layout menu Function key: The key multiplexing function is digital selection, generally used when setting the resolution	
BRIGHT	Quickly call out the brightness setting button	

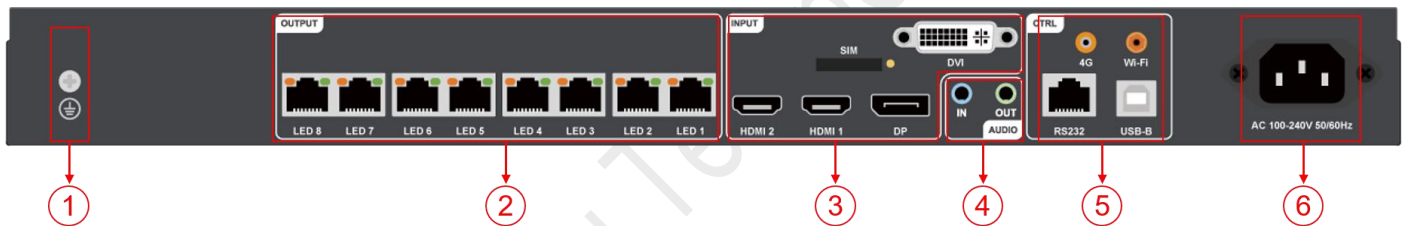
Standard rear panel:



SDI model rear panel:



4G model rear panel:



Input Interface			
Serial number	Interface Name	quantity	illustrate
3	DP1.2	1	DP input interface Interface type: DP Signal standard: DP1.2 backward compatible Resolution: VESA standard, $\geq 720 \times 480 @ 60\text{Hz}$, $\leq 4096 \times 2160 @ 60\text{Hz}$ Support audio input

	HDMI1~2	2	HDMI 2.0 input interface × 1 (HDMI 1) Interface type: HDMI-A Signal standard: HDMI 2.0 backward compatible Resolution: VESA standard, ≥800×600@60Hz, ≤4096×2160@60Hz Support audio input HDMI 1.4 input interface × 1 (HDMI 2) Interface type: HDMI-A Signal standard: HDMI 1.4 backward compatible Resolution: VESA standard, ≥800×600@60Hz, ≤4096x2160@30Hz Support audio input
	DVI	1	DVI input interface Interface type: DVI-I socket Signal standard: DVI1.0, HDMI1.3 backward compatible Resolution: VESA standard, ≥800×600@60Hz, ≤1920×1200@60Hz
	VGA	1	VGA input Interface type: DB15 socket Signal standard: R, G, B, Hsync, Vsync: 0 to1Vpp±3dB (0.7V Video+0.3v Sync) 75 ohm black level: 300mV Sync-tip: 0V Resolution: VESA standard, ≥720×480@60Hz, ≤1920×1080@60Hz
	SDI	1	SDI Input Interface type: BNC

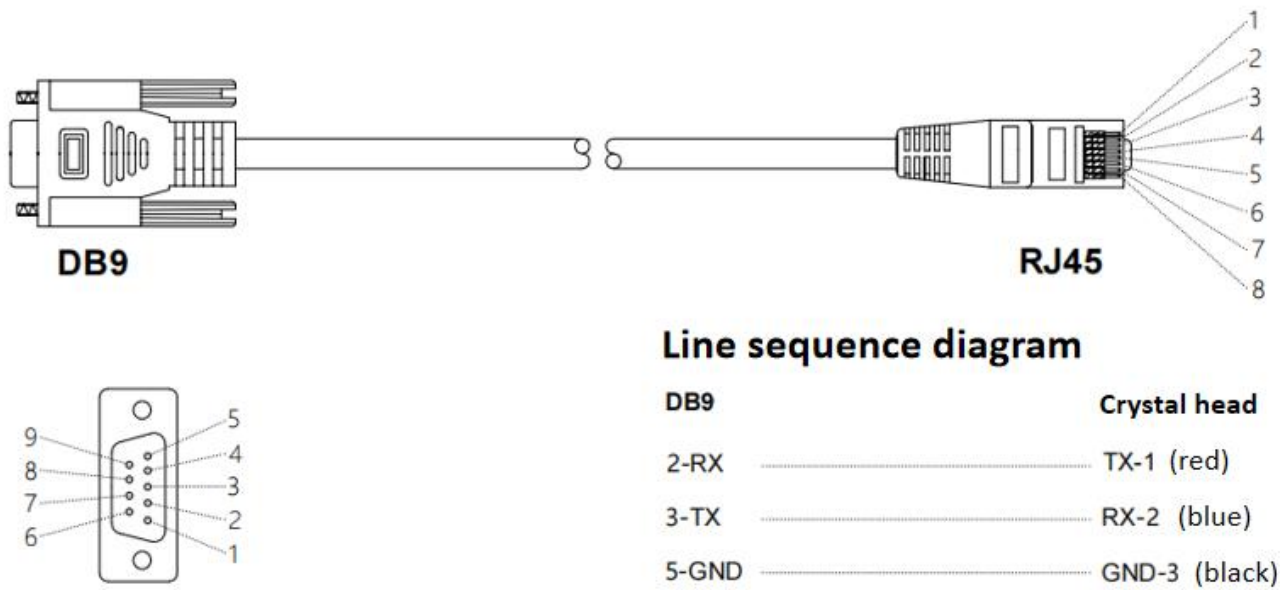
			Signal standards: SD-SDI, HD-SDI, 3G-SDI Resolution: VESA standard, $\leq 1920 \times 1080 @ 60\text{Hz}$
4	AUDIO IN	1	TRS 3.5mm dual channel audio input interface
6	power supply	1	AC 100 ~ 240V 50/60Hz

Output Interface			
Serial number	Interface Name	quantity	illustrate
1	Grounding interface	1	Anti-static/leakage protection, personal safety protection and equipment normal operation protection
2	Gigabit Ethernet	8	Used for cascading receiving cards, transmitting RGB data stream, each network port controls 650,000 images, supports docking multi-function cards
3	SDI-LOOP	1	SDI signal loop-out interface Interface type: BNC Signal standards: SD-SDI, HD-SDI, 3G-SDI Resolution: VESA standard, $\leq 1920 \times 1080 @ 60\text{Hz}$
4	AUDIO OUT	1	TRS 3.5mm dual-channel audio output interface Connect to an audio amplifier for high-power external speakers

Control interface			
Serial number	Interface Name	quantity	illustrate
3	SIM card slot	1	SIM card slot Currently only standard cards are supported: size W×H×D/ 25mm×15mm×0.8mm
5	RS232	1	RJ45 interface, connected to the central control device
	USB-B	1	Connect to a computer for debugging the device

	Wi-Fi antenna interface	1	Connect a Wi-Fi antenna to enhance Wi-Fi signal
	4G antenna interface	1	Connect a 4G antenna to enhance 4G signal

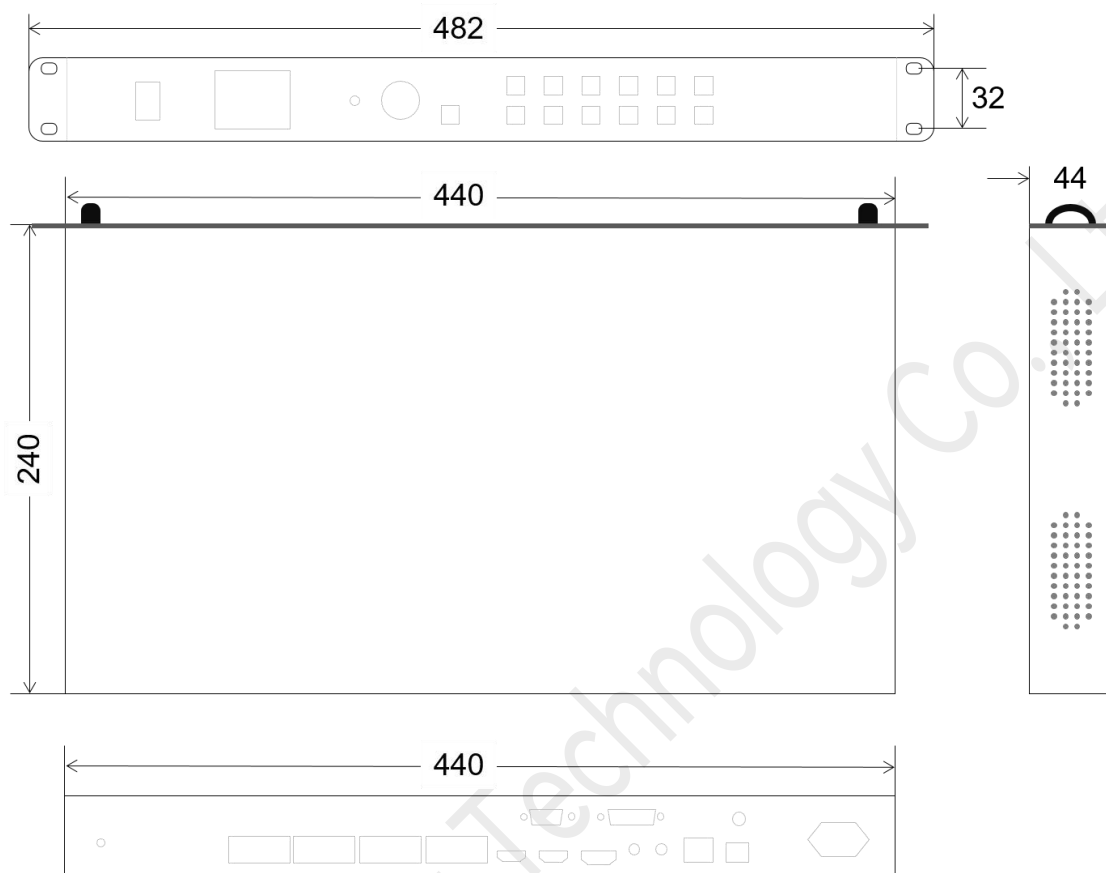
* The RJ 45 to DB9 cable diagram is as follows. It is optional. If you need it, please contact sales or technical support in advance.



* The remote control diagram is as follows. It is optional. If you have any needs, please contact sales or technical support in advance.



5. Product Size



6. Basic Parameters

Parameters		Parameter Value
Chassis specifications		1U Standard
Electrical specifications	power supply	AC 100 ~ 240V 50/60Hz
	Power consumption	50W
Work Environment	Operating temperature (°C)	-20 °C ~55 °C
	Operating 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	size	W×H×D/482mm×44mm×240mm

Specifications	net weight	2.9 kg
Packing specifications	Packing size	W×H×D/ 515mm×82mm×355mm
	Packing weight	4 kg
Packing List	HD-VP820A	1PCS
	USB Cable	1PCS
	HDMI Cable	1PCS
	DVI Cable	1PCS
	Power Cable	1PCS
	Wi-Fi ANT	1PCS
	Certificate	1PCS

Illustrate:

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