

PRODUCT SPECIFICATION

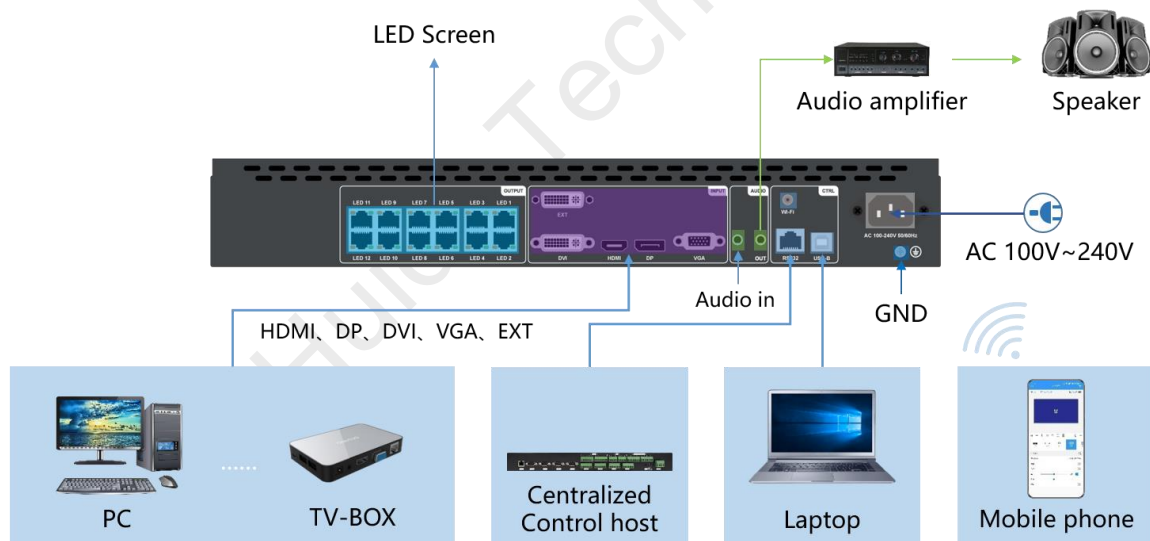
All-in-one Video Processor
HD-VP1220C

V1.0

1. Overview

HD-VP1220C is a two-in-one video processor that integrates a traditional video processor and 12 -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. Features

Input

- Supports up to 3840*2160 @60Hz synchronous signal input ;
- Supports 1-channel HDMI, 1-channel DP, 1-channel DVI, 1-channel VGA and 1-channel EXT 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

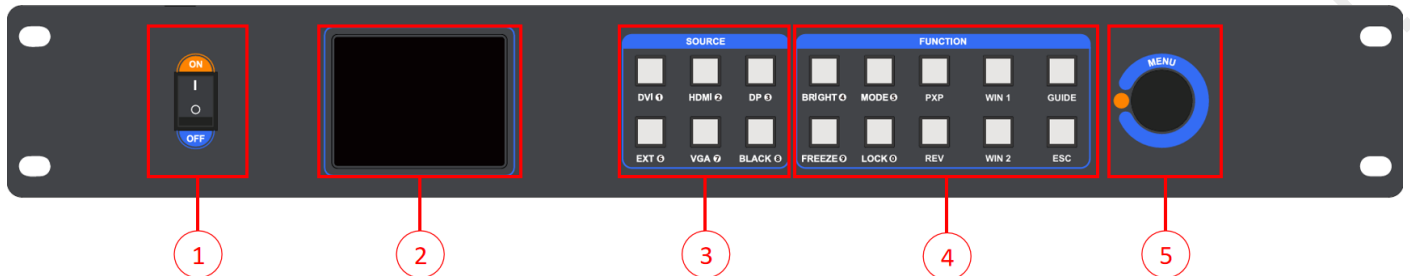
- Supports two-screen layout, maximum support 2×4K windows;
- Standard 12-channel Gigabit network port, directly cascade receiving card;
- The maximum control is 7.8 million pixels, the maximum horizontal support is 16000 pixels, and the maximum vertical support is 4000 pixels ;
- 1 TRS 3.5mm standard two-channel audio output.

Functions

- Video signals can be switched, cropped, and scaled at will;
- Support 8 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;
- Supports equipment binding.

4. Appearance Description

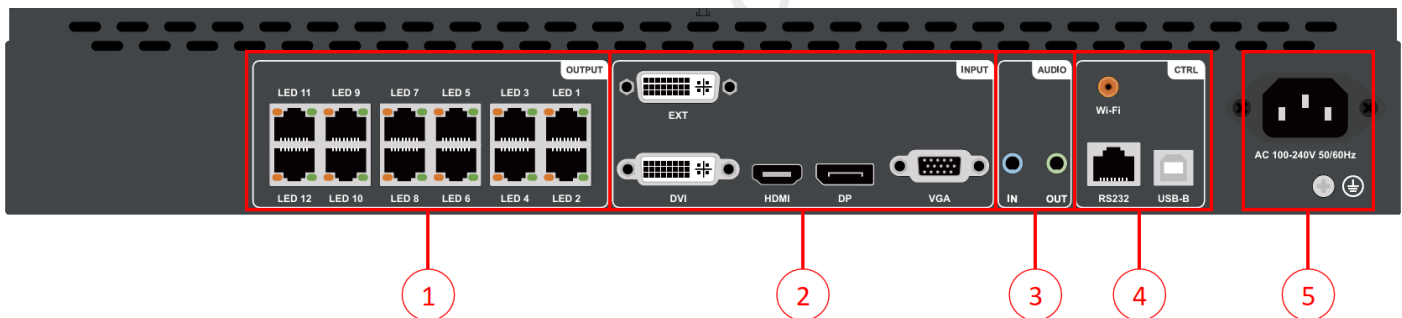
Front Panel:



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	DVI	Select DVI signal playback Function key: The key multiplexing function is digital selection, generally used when setting the resolution
	HDMI	Select HDMI 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
	EXT	Select EXT signal playback Function key: The key multiplexing function is digital selection, generally used when setting the resolution
	VGA	Select VGA signal playback 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
4	BRIGHT	Quickly call out the brightness setting button Function key: The key multiplexing function is digital selection, generally used when setting the resolution
	MODE	Quickly call up the preset mode call menu Function key: The key multiplexing function is digital selection, generally used when setting the resolution

	PXP	Quickly enter the two- screen layout menu
	WIN1~WIN2	Select an open window
	GUIDE	Quickly call out the "intelligent navigation" setting interface
	FREEZE	click freeze button Function key: The key multiplexing function is digital selection, generally used when setting the resolution
	LOCK	Button lock to prevent misoperation. Function key: The key multiplexing function is digital selection, generally used when setting the resolution
	REV	Retain the function keys.
	ESC	Exit key /Back key
5	MENU knob	Press the knob to enter a submenu or confirm a selection Rotate the knob to select menu items or adjust parameters

Rear Panel:



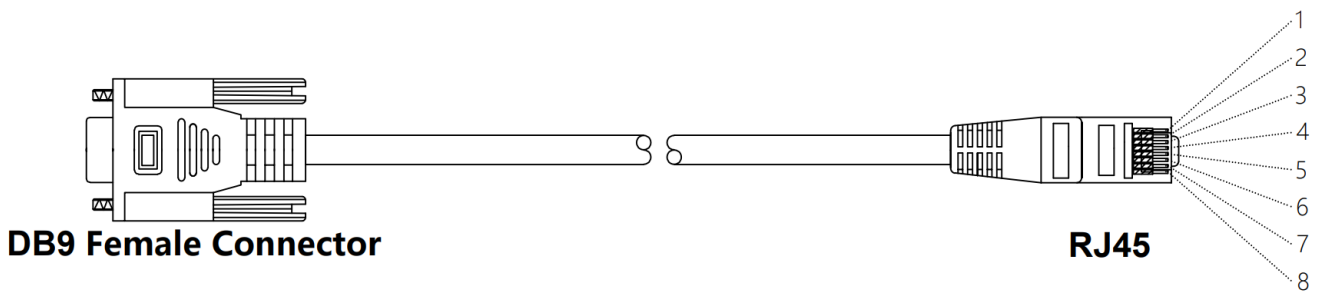
Input Interface			
Serial number	Interface Name	quantity	illustrate
2	DP1.2	1	DP input interface Interface type: DP Signal standard: DP1.2 backward compatible Resolution: VESA standard, $\geq 800 \times 600 @ 60\text{Hz}$, $\leq 3840 \times 2160 @ 60\text{Hz}$ Support audio input
	HDMI2.0	1	HDMI input interface Interface type: HDMI-A Signal standard: HDMI 2.0 backward compatible

			<p>Resolution: VESA standard, $\geq 800 \times 600 @ 60\text{Hz}$, $\leq 3840 \times 2160 @ 60\text{Hz}$</p> <p>Support audio input</p>
	VGA	1	<p>VGA input interface</p> <p>Interface type: DB15 socket</p> <p>Signal standard: R, G, B, Hsync, Vsync: 0 to 1Vpp\pm3dB (0.7V Video+0.3v Sync)</p> <p>75 ohm black level: 300mV Sync-tip: 0V</p> <p>Resolution: VESA standard, $\geq 800 \times 600 @ 60\text{Hz}$, $\leq 1920 \times 1080 @ 60\text{Hz}$</p>
	DVI	1	<p>DVI input interface</p> <p>Interface type: DVI-I socket</p> <p>Signal standard: DVI1.0 backward compatible</p> <p>Resolution: VESA standard, $\geq 800 \times 600 @ 60\text{Hz}$, $\leq 1920 \times 1200 @ 60\text{Hz}$</p>
	EXT	1	<p>Expansion interface: DVI is the default standard configuration.</p> <p>DVI input interface</p> <p>Interface type: DVI-I socket</p> <p>Signal standard: DVI1.0 backward compatible</p> <p>Resolution: VESA standard, $\geq 800 \times 600 @ 60\text{Hz}$, $\leq 1920 \times 1200 @ 60\text{Hz}$</p>
3	AUDIO IN	1	<p>TRS 3.5mm dual channel audio input interface</p>
5	Power supply	1	<p>AC 100~240V 50/60Hz</p>

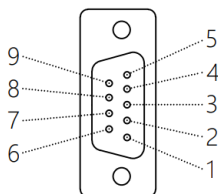
Output Interface			
Serial number	Interface Name	quantity	illustrate
1	Gigabit Ethernet	12	Used for cascading receiving cards, transmitting RGB data stream, each network port controls 650,000 pixels, supports docking multi-function cards
3	AUDIO OUT	1	TRS 3.5mm dual-channel audio output interface Connect to an audio amplifier for high-power external speakers
5	Grounding interface	1	Anti-static/leakage protection, personal safety protection and equipment normal operation protection

Control interface			
Serial number	Interface Name	quantity	illustrate
4	Wi-Fi antenna interface	1	Connect a Wi-Fi antenna to enhance Wi-Fi signal
	RS232	1	RJ45 interface, connected to the central control device
	USB-B	1	Connect to a computer for debugging the device

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



Line Ordering:



DB9 female connector

RJ45 connector

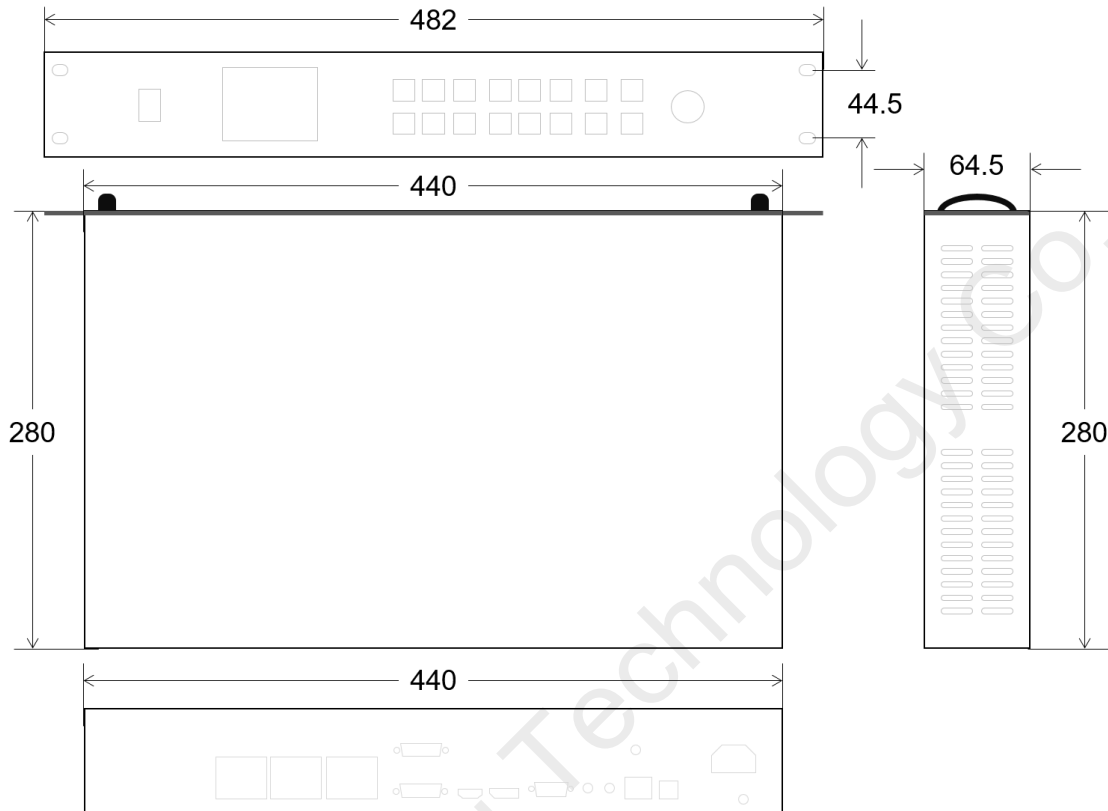
2-RX TX-1(Red)

3-TX RX-2(Blue)

5-GND GND-3(Black)

5. Dimensions

Dimensions (mm):



Tolerance: ± 0.3 mm

6. Basic Parameters

Parameters		Parameter Value
Chassis specifications		1.5U 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 Specifications	size	W×H×D/482mm×64.5mm×280mm
	net weight	3.65kg
Packing specifications	Packing size	W×H×D/ 515mm×120mm×380mm
	Packing weight	4.7kg

Illustrate:

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