灰度科技
HUIDU TECHNOLOGY

Shenzhen Huidu Technology Co., Ltd

Product Specifications

2 in 1 Video processor HD-VP820

V1.020200808

Overview

HD-VP820 is one powerful 2-in-1 controller which with eight network ports output, support dual live video windows integrated video processing and sending card functions.

It product supports 4K input and is a cost-effective video processor for mid-to-high-end video control equipment in the LED large-screen display, performance and rental, studio and other markets.

Practical video input interface —1 HD video input interface (HDMI), 1 digital video input interface (DVI), 1 analog input interface (VGA)，1 * extended EXT input interface (DVI or SDI, factory standard DVI)。

Audio input and output —HDMI/DP audio input ， 1 independent analog audio input, select 1 from 3 to send to the audio output terminal.

Debug control interface—Square USB（Type B）、Wi-Fi。

Dual-screen layout—Support dual images function，picture-in-picture PIP, picture-outside-picture POP.

Input resolution adjustment—In DVI/HDMI/DP input mode, it supports preset and custom adjustment of common input resolutions.

Support 8network port output—maximum load 5.2 million pixels, maximum width 8000, maximum 3840.

Set-and-save —The set-and-save technology solves the user's cumbersome setting and manual storage process, the user no need to manually save after adjusting or adjusting the parameters, and the user parameters are automatically stored in EEPROM, even if the power is turned off After the power failure, the parameters before the power failure remain in the device.

Save template function—it can save the current settings, up to 8 groups of template parameters, and save the parameters to the corresponding mode, which is convenient for customers to call directly.

Key lock — lock the keys to prevent accidentally pressing the operation keys to change settings during operation.

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Application Scenario

Displaying the screen of a video playback device such as a computer/TV/camera synchronously

Connection diagram

Characteristics

1）Integrated video processor、sending card function, 8 gigabit network port output, total pixels 5.2 million points;

2）5-channel high-definition digital and analog video input, up to 4K@60Hz input;

3）Multiple audio input and output;

4）Support dual picture PIP, POP;

5）Fast switching of any channel;

6) Parameter setting and saving function, scene preset saving and recalling;

7) The "Navigation Settings" function is convenient for quick settings;

8) The "connection setting" function does not require computer control, and directly sets the connection parameters of each cabinet through the panel buttons;

9) The device can be debugged and controlled through the panel buttons, USB, Wi-Fi (mobile APP, developing);

System function list

DVI Input	1 Interface form: DVI-I socket Signal standard: DVI1.0 Resolution: VESA standard, PC to 1920x1200, HD to 1080p
HDMI Input	1 Interface form: HDMI-A Signal standard: HDMI1.3 backward compatible Resolution: VESA standard,≤3840×2160@60Hz
DP Input	1 Interface form ： DP Signal standard:DP1.2 向下兼容 Resolution: VESA standard,≤3840×2160@60Hz
VGA Input	1 Interface form: DB15 socket Signal standard: R, G, B, Hsync, Vsync: 0 to 1Vpp ± 3dB (0.7V Video + 0.3v Sync) 75 ohm black level: 300mV Sync-tip: 0V Resolution: VESA standard,≤1920×1080p@60Hz
EXT Input	1 DVI or SDI，Default standard DVI

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AUDIO IN	Input x1，3.5mm audio port
AUDIO OUT	Output x1，3.5mm audio port
Network port Output	8-way network port output interface，connected to the acceptance card，total pixels520W，Widest 8000，Highest 3840 Each network port carries 65W pixels, and the widest single network port is 2048 pixels and the highest is 2048 pixels.
MONITOR	Synchronous monitoring of HDMI output interface, external LCD display，1920x1080@60Hz
Square USB port (Type B)	Connect to the PC, debug the parameters of the sending card and receiving card, and program upgrades through HDSet software.
Wi-Fi	Support mobile phone APP for sending card, receiving card parameter debugging, program upgrade, etc.--- developing
Power interface	100-240V~50/60Hz
Whole machine power	<=75W
Weight	<=3.6kg
Size（mm）	Case size：（Length）482mm*（width）302.8mm*（hight）65.5mm
Machine case	1.5U standard industrial chassis

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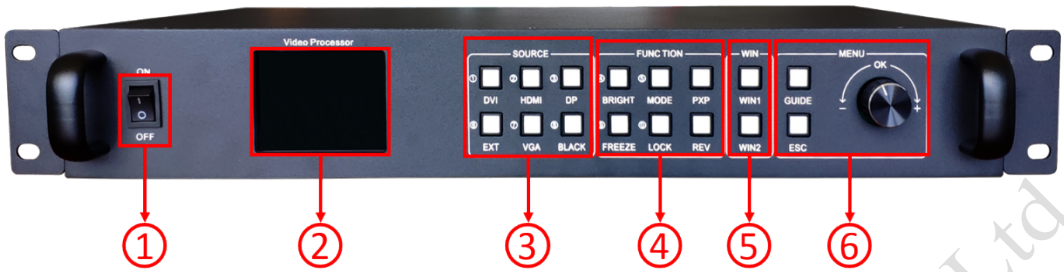
Appearance

Front panel



Interface Description	
1	Power Button
2	2.8" full-color LCD screen（320×240），display device menu information
3	**SOURCE Area** **Input Source Select keypad**，6 buttons [DVI] ~ [DP], 5 input source port selection buttons, corresponding to the input interface identification on the back panel. Among them: when you press BLACK and the BALCK LED indicator is on, the output is in a black screen state.
4	**FUNCTION Area** [BRIGHT]: Quickly swap out the shortcut keys of the brightness adjustment menu. [FREEZE]: Shortcut key for screen freeze. [MODE]: Quickly pop up the preset mode call menu. [LOCK]: Quickly lock the keys to prevent miss operation. [PXP]: Quickly enter the dual picture layout menu. [REV]: reserved function keys.
5	**WIN Area** [WIN1]- [WIN2]Button: You can select the opened screen 1~2 window, and the LED light indicates the currently selected window.
6	**MENU Area** Short press the knob [OK] key: it means to enter the main menu or input confirmation. Turn the knob clockwise to increase or the next option, counterclockwise to decrease or the previous option. [GUIDE] key: can quickly switch out the "smart navigation" setting interface. Return key [ESC]: means to exit the current operation or option.

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Rear Panel

Output Port	
LED1~LED8	8-way network port output interface，Connect to the LED screen receiving card
MONITOR	Synchronous monitoring of HDMI output interface, external LCD display

Input Port	
EXT	Expansion input port, the default is DVI, HDMI or SDI can be selected
DVI	DVI port
HDMI	HDMIport
DP	DP port
VGA	VGA port

Audio input and output	
AUDIO_IN	Analog audio input port
AUDIO_OUT	Analog audio output port ， Selectable input source audio.

CONTROLinterface	
COM	USB Control debugging interface
WIFI	WIFI Wireless control

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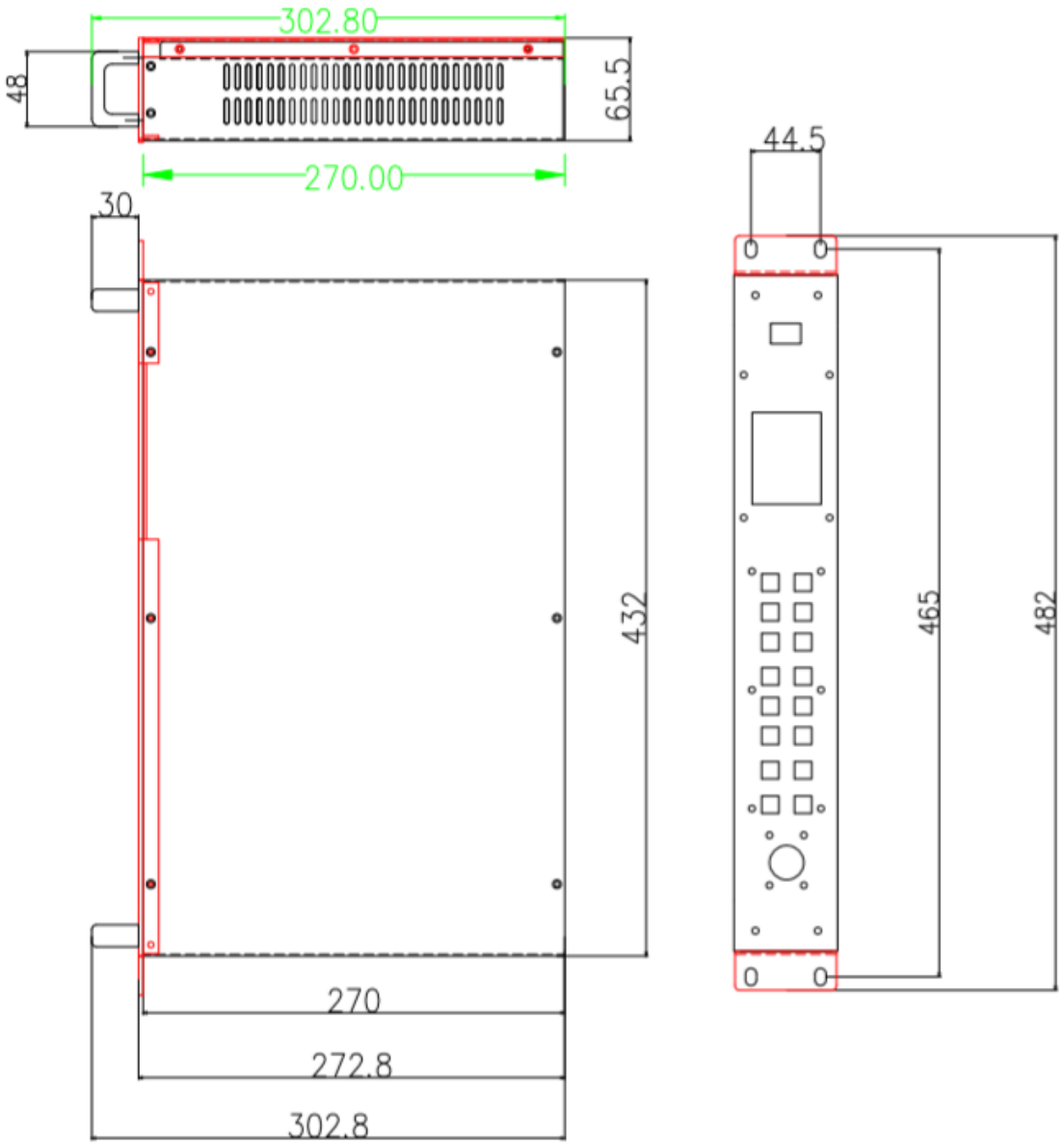
Dimensions



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Technical Parameters

	Minimum	Typical value	Maximum
Rated voltage (V)	110VAC	220VA	240VAC
Storage temperature (°C)	-40	25	105
Working environment temperature (°C)	-10	25	45
Working environment humidity (%)	0.0	10	90

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