onbon 仰邦科技

全系列LED控制器制造商 | LED应用系统专家

Video processor

Specification

⚠ Before you use the LED controller, please read this file first and save it for future.

We will struggle and serve for the booming development of LED industry!

OVP-H1

Statement

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The specifications and information which are mentioned on the file is for reference only, if there's update, we will not inform you. This file is only for guidance, and all information will not be for any promises.

CATALOG

Brief Introduction

Thanks for ordering LED control card. The design of the control card is according to the international and industrial standard, but if the operations are incorrect, it will probably bring you personal injury and financial harm. As to avoid these and win more from your equipment, please obey the specifications of this file.

About Software

Cannot do any modification, decompilation, disassembling, decoding or reverse engineering on our software, it's illegal.

Characteristics

◆ Control size 8 885K pixels，Support maximum pixels in width 16000，maximum pixels in height 3840；

◆ Cut and Fade function of input signal source

◆ On-board 7 ultra high definition (UHD) digital and analog input interface;

◆ Supports double screen / three screen / four screen display and arbitrary layout, easily completes the stage main screen and side screen centralized control；

◆ With dedicated DVI monitoring output interface, sypport multi screen output monitor

◆ Support 6 signal input DVI\HDMI\DP Custom resolution settings

◆ Hot mulit image signal input hot backup；

◆ Support three spiting methods：cross splitting,vertical splitting ,horizontal splitting

◆ Support text overlay。

◆ Support panel key、LAN、USB、WIFI（non standard) methods to control .

Guiding

Safety Notes

◆ Input voltage is 220V, voltage range is from 100V-240V, please make sure the quality of the power supply of OVP series.

◆ Please make sure that all the power supply cables are plugged off when you want to connect or plug off any signal or controlling cables.

◆ Please make sure that all the power supply cables and signal cables are plugged off when you need to put in or take off the hardware equipment.

◆ Please take off the power supply of LED video processor before you do any hardware operations, and ESD by touching the ground.

◆ Please make sure the environment is clean, dry and ventilated when you use this product, also, do not put this product to a high temperature and wet environment.

◆ This product is electronic products, please keep away from fire, water source and flammable&combustible products.

◆ There's high pressure components in this products, please do not open the box and repair it by yourself.

◆ Turn off the power supply immediately when you find smoking, peculiar smell or something unusual. And contact with us soon.

Function

OVERVIEW

OVP-H1 multi-image splicer is a high-end video processing equipment developed by Onbon, Mainly used for large   LED screen   display, performance and rental, conference room, studio and other markets. This product adopts 4K image processing and proprietary splicing technology designed for small pitch LED display screen to ensure the homogeneity and synchronization of splicing. It can realize point-to-point input and output for ultra-high resolution LED large screen, so it can effectively eliminate the edge sawtooth phenomenon caused by image zooming and reduce the enlarged image. The fuzzy sense of out of focus.

Technical Specifications

Input Index		
Port	Quantity	Signal standard
HDMI1.4	2	19Pin HDMI VESA standard
DVI	2	24+1 DVI-D VESA standard
DP1.2	2	20Pin DP VESA standard:4K@60Hzdownward compatibility
VGA	1	5Pin D_Sub VESA standard:UXGA@75Hz downward compatibility

Output Index		
Port	Quantity	Resolution Specifications
DVI（Connect with sending card）	4	Cross splicing： 8000(Horizontal)，3840（Vertical） Vertical splicing：4000(Horizontal),3840(Vertical) Horizontal splicing： 16000(Horizontal)， 2000（Vertical） Note：（1）Vertical pixels x Horizontal pixels（Total pixels）should not over 8 850 thousand pixels. 　　　（2）Support 4Kx2K width point to point split. DVI output frequency 60Hz。
DVI(Local monitor)	1	1024×768@60Hz（default）or 1920×1080@60Hz
Output put terminal： DVI: 24+1 DVI_D		

Audio output			
Interface	Quantity	Output channel	Signal standard
RCA	1	HDMI and DP signal audio	Analog audio

Details	
Input voltage	100-240VAC
Maximum Power dissipation	≤70W
Working Temperature	-10℃-45 ℃
Environment humidity	15-85%

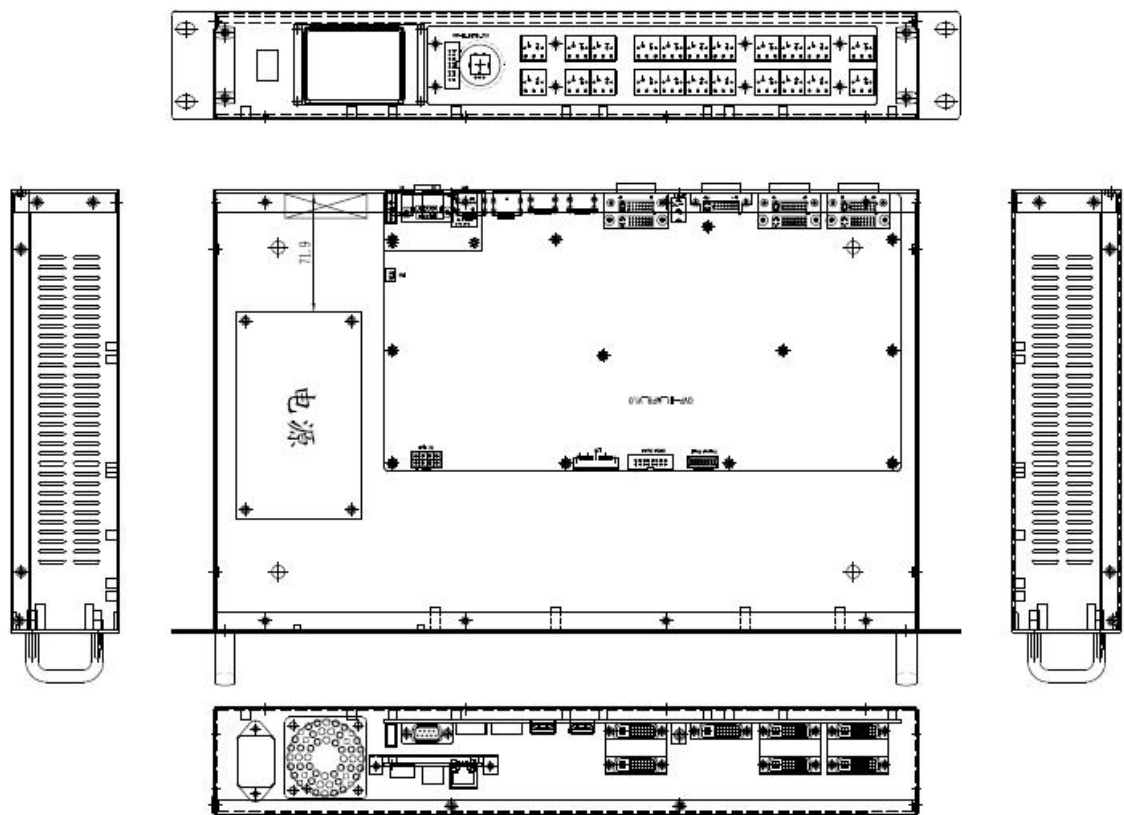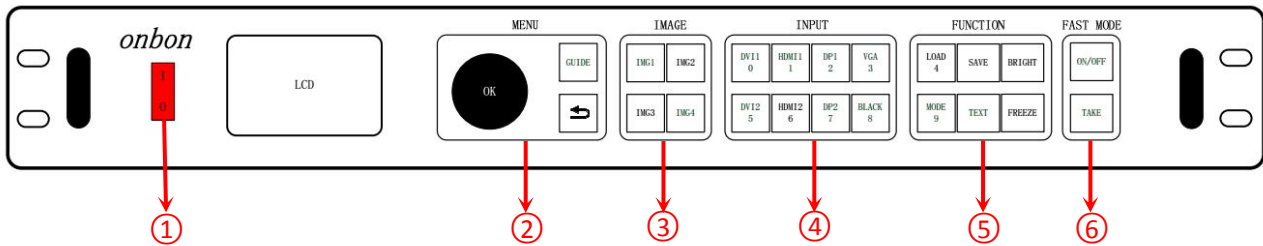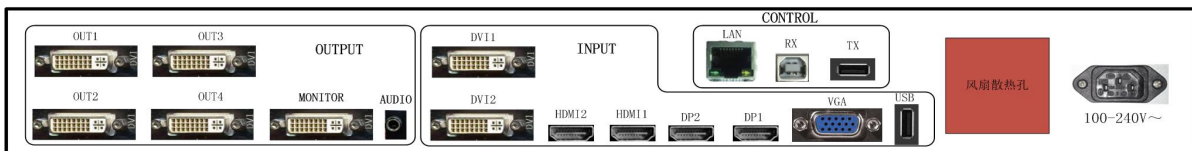| Control method	(1) Key and LCD screen control
	(2) PC software and (RJ45) remote control
	(3) PC software and USB port remote control
	(4) PC&WIFI controller (Need to inform us before purchase)
Size	Standard 1U case: 470mm (L) × 300mm (W) × 66mm (H)
Weight	3Kg

Size diagram

Photo of Front Side

Interface index		
1	Power supply	ON/OFF button of power supply
2	Screen for operation **MENU area** This area includes one rotating button, one OK key ,one guide key and one return key⮌ "Short-press OK key" means enter into main menu or confirm to input; "Guide key"when press it it will guide users to use it "Rotate the button" means choose or adjust the parameters.	
3	**IMAGE area** This area contains [IMG1]–[IMG4] 4 Keys.Uses can use image1^image4,the light will on once it is selected	
4	**INPUT area** Input signal source selection key area, from [DVI1] to [DP2] total eight keys, eight input signal sources selection keys, Users can switch input signal sources by, short press the keys of area	
5	**FUNCTION area** [BRIGHT]：Brightness adjustment menu shortcut key。 [FREEZE]：Freeze Image shortcut key [LOAD]：Quickly switch user mode key [SAVE]：Quickly save user mode key [MODE] :Quickly use the default user mode key [TEXT]：Overlay the text storage d in the USB disk ,If the light is on,The overly function can work	

6	**FAST-MODE area** 〔ON/OFF〕FAST MODE ON/OFF 〔TAKE〕Execute the signal source change LED

Power Supply	
Input voltage	100-240V

Video input interface	
DVI1	DVI, input video signal source 1
DVI2	DVI, input video signal source 2
HDMI1	HDMI input video signal source 1
HDMI2	HDMI input video signal source 2
DP1	DP input video signal source 1
DP2	DP input video signal source 2
VGA	VGA input video signal source

Video output interface	
OUT1~OUT4	DVI output video signal ,send to sending card
MONITOR	Monitor DVI output ，connect with monitor

Audio input and output interface	
HDMI audio	build-in HDMI audio source
DP audio	build-in DP audio source
🎧 AUDIO	Audio output port

Control port	
LAN	Ethernet control interface
RX	USB control interface
TX	USB control interface，It can be used for cascading multiple splicing devices.

USB port	
USB	Function 1：Used for partial upgrading DSP of processor .
	Function2：Used for store overlay text files（Use together with "TEXT" button）

Product   photos

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