

LED Sending controller

User Manual



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-VH4 Sending controller

Statement

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Brief Introduction

Thanks for ordering ONBON 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

- ◆ Reliable and beautiful structure, easy installation
- ◆ Equivalent to cascade two send cards , no need to use the DVI splitter, very cost-effective
- ◆ Abundant display effect: OVP-VH pursue to improve more details and technical creation.
- ◆ The most we think about is the convenience for customers. Easy to operate and install, no need for training.
- ◆ Hardware update online ,protect maximum benefit of the users.
- ◆ The first choice for small pitch of Led screen

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 instruction

OVP-VH4 is a type of external sending controller, it has 4 Gigabit Ethernet ports, which is equivalent to cascade two send cards, and no need to use DVI splitter, it is very cost-effective. 4 Ethernet ports maximum support 2.6 million pixel output, single port maximum support 650,000 pixels. It has hot backup function for the display content of each ethernet port. It contains 1 DVI video input, can support 1920×1080、1280×1024、1024×768、1366×768、1600×900、2304*1152 and other resolutions. At the same time the resolution can be customized. While the frame rate can also be customized, the user can arbitrarily capture the specified display range of resolution. One nos audio input use together with BX-VMF multi-function card can achieve audio output.

Convenient high refresh technology, OVP-VH4 supports three playback modes, users can easily switch them as needed. Its structure is simple and easy to install, simple operation can achieve the best display results. The OVP-VH4 external sending controller is the first choice for small pitch of LED displays.

Custom Resolution

OVP-VH4 sending controller supports 1920 × 1080, 1280 × 1024, 1024 × 768, 1366 × 768, 1600 × 900, 2304 * 1024 resolution, it can also support custom resolution setting according to the customer's actual LED screen size by adjust the computer's output resolution. Support 30 to 60 frame custom frame rate output to meet some of the super large screen display's demand.

Flexible control size

OVP-VH4 sending controller each Ethernet port support maximum 650,000 pixels, Four Ethernet ports 2.6 million pixels under the 60-frame output, the equivalent of the output area is 2560 * 1024. There is no limit to maximum output height and maximum output width.

Hot backup function of each ethernet port

OVP-VH4 support hot backup function of each ethernet port, it is onboard 4 ethernet ports,4 ports can be mutual backup. By setting the same coordinates of the playing area, the four network ports are respectively connected with the network port of the receiving card by the network cable, so that two-way backup of the display content can be achieved. Any cascading direction of the network failure, it can instantly switch to another network port to continue to display.

In addition to support it's own ethernet ports hot backup, it can also support any ethernet port between the sending controllers mutual hot backup. As long as each of the OVP-VH4 sending controllers' ethernet port connected to the receiving card's input and output interface, set the same playback area coordinates can be achieved hot backup function.

Rich input interface

OVP-VH4 sending controller contains a DVI interface. It can support HDMI signal with one HDMI to DVI cable .It is onboard 1 nos audio signal input interface, when work together with BX-VMF multi-function card, it can achieve audio output to the special screen.

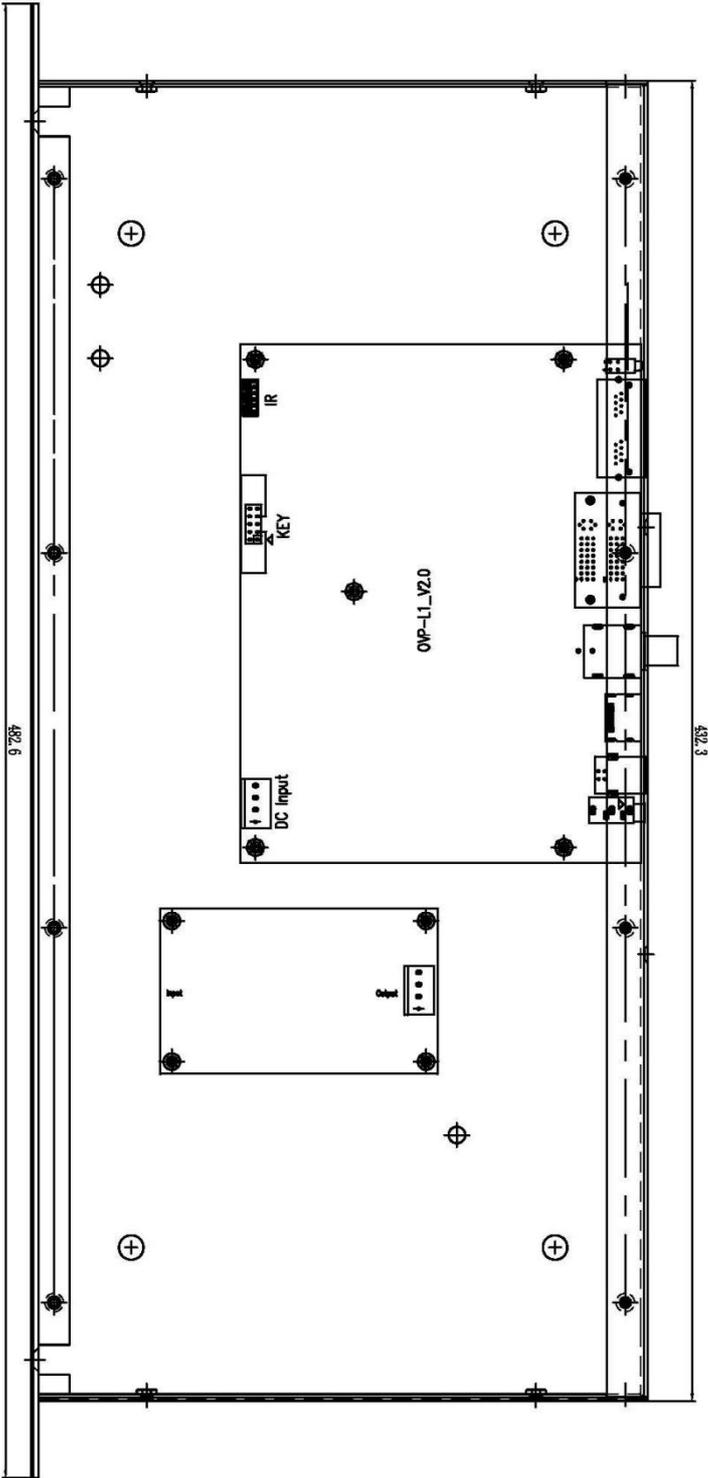
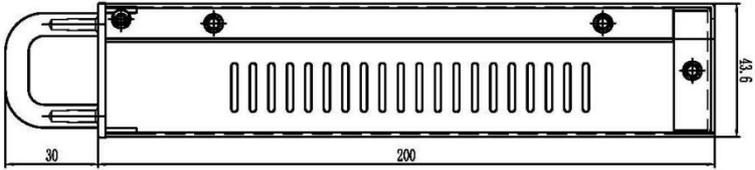
Users can set the screen parameters and management of the controller through the USB interface.

Technical specifications

Screen parameter	
Parameter	Specifications
Min Pixels	32 x 32
Control size	2560*1024 @60Hz; 2560*2048 @30Hz
Total Pixels	≤2560*1024
Max pixels in width	No limit
Max pixels in height	No limit

Specification	
Working voltage	100-240V~ 50/60Hz; please make sure the quality of the power supply of OVP-VH4
Power consumption	≤10W
Working temperature	-40℃ ~80℃
Shape	130.6mm Φ 96.6mm Φ 26.9mm

Physical dimension



Interface illustration



Button description		
1	Power supply	100-240V~ 50/60Hz
2	PWR	Power Indicator
3	SYS	System indicator
4	AUDIO	3.5 mm stereo, 1 nos audio input
5	USB	Serial cable interface
6	DVI	1 nos DVI, signal input
7	OUT1	Ethernet interface 1, signal output
	OUT2	Ethernet interface 2, signal output
	OUT3	Ethernet interface 3, signal output
	OUT4	Ethernet interface 4, signal output

Product Image



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