onbon 仰邦科技

LED Control Card

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-L1 Video Processor

Statement

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

◆ Adopt 10+ Bit Faroudja® DCDI video processing
◆ Adopt Faroudja® Real Color® processing
◆ Support frame synchronous technique, there will be no delay and dislocation
◆ Users can do PIP or PBP in any position
◆ Cut and Fade function of input signal source
◆ Support customized DVI input resolution, as to be the same with LED screen resolution, and to display point to point
◆ 1920 Support customized output resolution, the maximum width pixel is 3840 and the maximum height pixel is 1920 for single machine
◆ Can cluster LED sending card, maximum support 1,300,000 pixels
◆ 24 hours high and low temperature ON/OFF, burn-in test, high performance and stable

Guiding

Safety Notes

◆ Input voltage is 5V, voltage range is from 4.75V-5.25V, 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 Introduction

OVERVIEW

OVP-L1 video processor is an integrated video processor, and video processor can cluster VS sending card, cluster OVP video processor configuration mode by LedshowTV software, convenient to configure multiple format video input parameters. OVP-L1 video processor has two functions: cluster video&image processing and sending card control LED screen. Satisfy you by it's best image quality and flexible image controlling. And better to use in projects, smaller advertising screen, smaller meeting room, etc.

Advanced interlacing image self-adopt processing technique (DCDI), as to get a more smooth display. It's more clear and smooth for interlacing PAL/NTSC video; It's more abundant for 1080i signal.

Automatic identical engine of input signal source, users can edit DVI input resolution format, as to make it the same with LED screen resolution. The output image will be perfect, without compression and stretch.

Zoom in and out technique, and support 8 output resolutions, users can also customize the output resolution. The maximum output width pixels is 3849 and the maximum output height pixels is 1920. Also, you can use the fixed standard output resolution, then, zoom in or out according to your requirements.

Many kinds of video image input ports: 2xCV, 1xDVI, 1xHDMI, support full high definition signal input, and can connect with many audio, video equipment.

Technical Specifications

Input index		
Port	Quantity	Resolution Specifications
CV	2	PAL/NTSC
DVI	1	VESA Standard
HDMI	1	CEA-861 Standard, HDMI1.3

Output Index		
Port	Quantity	Resolution Specifications
Ethernet	2	Maximum support 1,300,000 pixels
DVI	1	800×600_60Hz, 1024×768_60Hz, 1280×1024_60Hz 1366×768_60Hz, 1440×900_60Hz, 1600×1200_60Hz 1920×1080p_60Hz Customized resolution: Maximum width is 3840 pixels and maximum height is 1920 pixels (24-60Hz)

LED Area	
Total control pixels	1,300,000 pixels, like: 1280*1024 @60Hz
Maximum width pixels	2048
Maximum height pixels	1024

Details	
Input power supply	DC 4.75-5.25V
Maximum Power dissipation	≤10W
Working Temperature	-20℃～55℃
Environment humidity	15-85%
Size of product	195mm×142mm×46.5mm

Photo of front side

AUDIOport	
AUDIO	Audio input or output port, if it's output, it will be HDMI input

DVI option key	
DVI	DVI input signal source option key

HDMI option key	
HDMI	HDMI input signal source option key

CV1 option key	
CV1	Composite video input signal source 1 option key

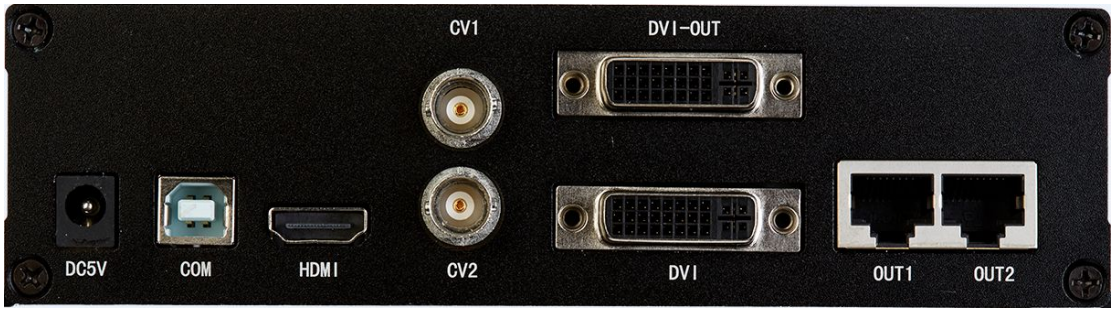
CV2 option key	
CV2	Composite video input signal source 2 option key

PIP option key	
PIP	Turn on/off the "PART" function; Switch to "PART"; [PART] key is lighting

IR	
IR	Receiving of infrared remote control

REMOTE	
REMOTE	Extend port for infrared remote control

Photo of back side



Power supply	
Input voltage	4.75-5.25V

COM	
COM port	Serial port communication port, connect with computer

HDMI	
HDMI	HDMI signal input port, input video and audio signal

CV1 option key	
CV1	Composite video input port 1

CV2option key	
CV2	Composite video input port 2

DVI	
DVI	DVI signal input port

DVI-OUT	
DVI-OUT	DVI output port, 1 DVI, output video signal

Gigabit	
OUT1	Scan data output port, connect with LED screen
OUT2	

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