Mooncell

MVB4S 2IN1 Video Processor

Specification V3.7

Shenzhen Mooncell Electronics Co., Ltd

1 Product Overview

Product Introduction

MVB4SPro is a 2in1 led video processor produced by Mooncell and which has integrated with a video processor and sending card. It supports quick led display set-up, without using the computer software to configure the connections of the led display, which has greatly simplified the on site debugging steps. It features a complete video image input interfaces,including:1x VGA,1x DVI,1x HDMI, and the Full HD Signal Input is supported; it features 4x Gigabit Ethernet Ports,1x DVI LOOP out, the single unit could upload 2.6 million pixels, the widest horizontal resolution could reach up to: 3840 and the vertical could reach up to 1920.

Product Features:

It features the top image processing chip of the industry, internal with the 12 digits processing,which has made a clearer image with richer color. The advanced interlaced motion adaptive processing technology, which eliminates the smearing and aliasing issue of the video's image motion. For the conventional PAL/NTSC videos,the output image will be clearer and more subtle, rich in details and full in color which has made the image quality a leading position in the industry.

Application Scenarios

It is suitable for many application scenarios such as small and medium-sized LED displays in shopping malls, hotels, exhibitions, TV studios, etc.

2 Function Introduction

✧ **4 Ethernet Ports for Outputs,2.6 Million pixels could be uploaded, the single Ethernet Port could upload 650 thousand pixels; widest horizontal resolution :3840/ vertical:1920.**

✧ **It features multiple video input interfaces:1×VGA、1×DVI、1×DVI LOOP、1×HDMI 、1×CV .**

✧ **It has the independent audio input,audio separation output.**

✧ **It supports instant switching between multiple signal input channels or fade in & fade out.**

✧ **No need to debug through the software on the computer, just a knob and button to quickly get the led display connected, easy and simple operation.**

✧ **It supports wizard debugging mode to make debugging easier and more convenient.**

✧ **It supports dual picture function（HDMI,DVI）, picture in picture or picture out picture could be realized, the size is adjustable.**

✧ **Graphic overlay, keying synthesis function, convenient to achieve the effect of subtitle overlay, image synthesis.**

✧ **It supports the pixel to pixel scaling of the input image according to the resolution of the display.**

✧ **It supports multiple devices cascading connection.**

✧ **It supports timed signal switching.**

✧ **It supports the self-detection of the voltage and temperature.**

✧ **It supports timed automatic brightness adjustment.**

✧ **It supports user-defined EDID and management.**

✧ **it supports timed lock.**

3 Product Parameters

Basic Parameters

Loading Capacity	1 Network Port	650 thousand pixels
	1 unit (entire unit)	2.6 million pixels
The Widest Loading Pixel	Entire Unit: 3840	
The highest Loading Pixel	Entire Unit:1920	

Hardware Introduction

Front Panel

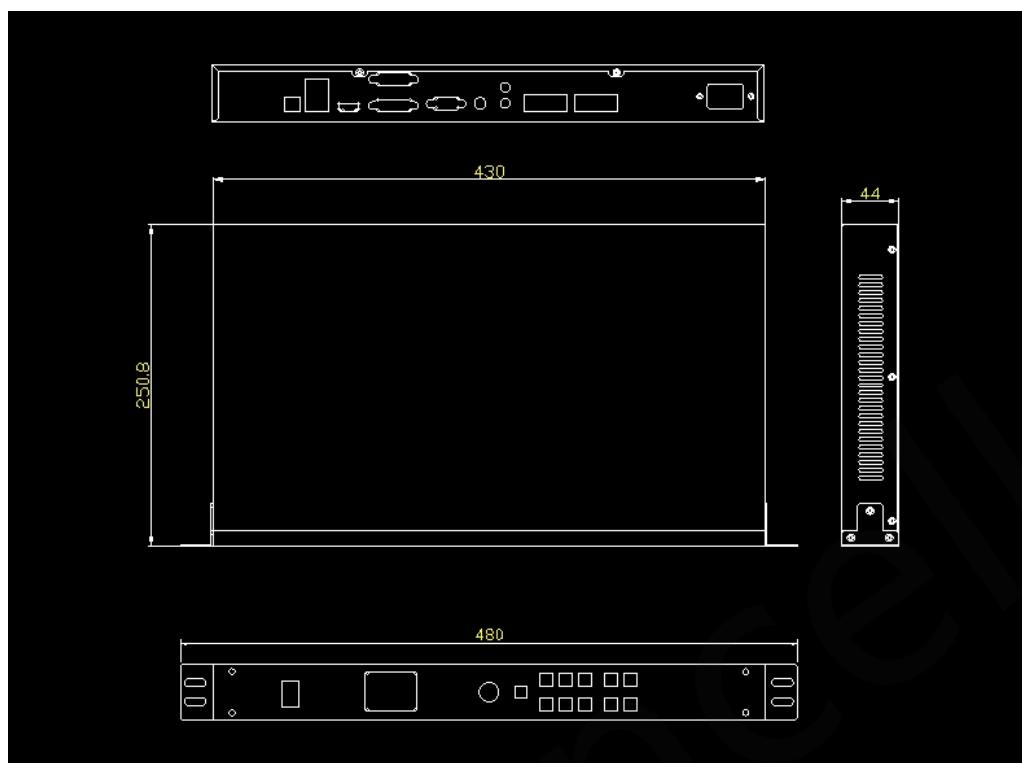| Front Panel Illustration		
#	Buttons	Illustration
1	Power ON/OFF	Device Power ON/OFF
2	LCD	It displays the operation menu.
3	Operation Button(Rotate Knob)	Rotate to choose the menu operation ESC Key.
5	Inputs Source Switching Buttons	Input Source and Test Signal
4	Function Buttons	Dual Pictures Quick Switch Button Partial and Full Display Switching Button

		Picture Capture Quick Switch Button
		BrightnessLED Settings

Backside Panel

Input Interface			
#	Interface Type	QTY	Illustration
2	HDMI	1	Signal Standards： DVI1.0HDMI1.3 Downwards Compatible ; Resolution Supported：VESA Standards 1920x1200
	DVI	1	Signal Standards： DVI1.0HDMI1.3 Downward Compatible; Resolution Supported：VESA Standards 1920x1200
	VGA	1	Signal Standards: Analog RGB; Resolution Supported：VESA Standards 1920x1200
	DVI LOOP	1	Signal Standards： DVI1.0HDMI1.3 Downward Compatible; Resolution Supported：VESA Standards 1920x1200
Output Interface			
#	Interface Type	QTY	Illustration

4	Gigabyte Ethernet Port	4	Interface Type： RJ45 Transferring Speed：1000BaseTX Output Resolution：Widest 3840，Highest 1920；Entire 2.6 Million Pixels Supported Receiving Card：Mooncell All Series Receiving card and multifunctional card

AUDIO Interface

#	Interface Type	QTY	Illustration
3	AUDIO IN	1	3.5mmAudio Interface Input
	AUDIO OUT	1	3.5mmAudio Interface Output

Control Interface

#	Interface Type	QTY	Illustration
1	LAN	1	100M Ethernet Port, Reserved Port
	RS232	1	Serial Port，Reserved Port
	USB	1	Configure Port to connect to the PC

Power Interface

#	Interface Type	QTY	Illustration
5	Power Interface	1	AC 100V~240V

Dimensions:

4 Product Specifications

Specifications

Electric Parameters	Input Voltage	AC-100-240V-50/60HZ
	Rated Power	20W
Operating Environment	Operating Temperature	-20℃ - 70℃
	Operating Humidity	10%RH-90%RH No Solidification
Dimensions	480 x 250.8 x 44 mm(Length x Width x Height)	
Net Weight	2.7 KG	
Contour Dimension of Pac	515×130×355mm	
Gross weight (including packaging)	3.85 KG	

Precautions

1. **High voltage danger: The working voltage of this product is AC – 100V ~ 240V.**

2. **It is forbidden to immerse conductive objects such as liquids and metal fragments into the equipment to avoid safety accidents.**

3. **Please use the equipment in a dry and clean environment.**