



Shenzhen Mooncell Electronics Co.,

2IN1 Led Video Processor

MVB4SPro Product Specifications

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, 1x CV, 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 | |

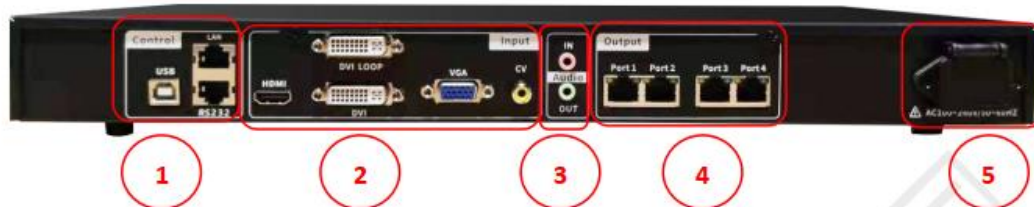
Hardware Introduction

Front Panel



| <i>Front Panel Illustration</i> | | |
|---------------------------------|---------------------------------|--|
| <i>#</i> | <i>Buttons</i> | <i>Illustration</i> |
| 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. |
| 4 | Inputs Source Switching Buttons | Input Source and Test Signal |
| 5 | Function Buttons | Dual Pictures Quick Switch Button Partial and Full Display Switching Button Picture Capture Quick Switch Button Brightness LED Settings |

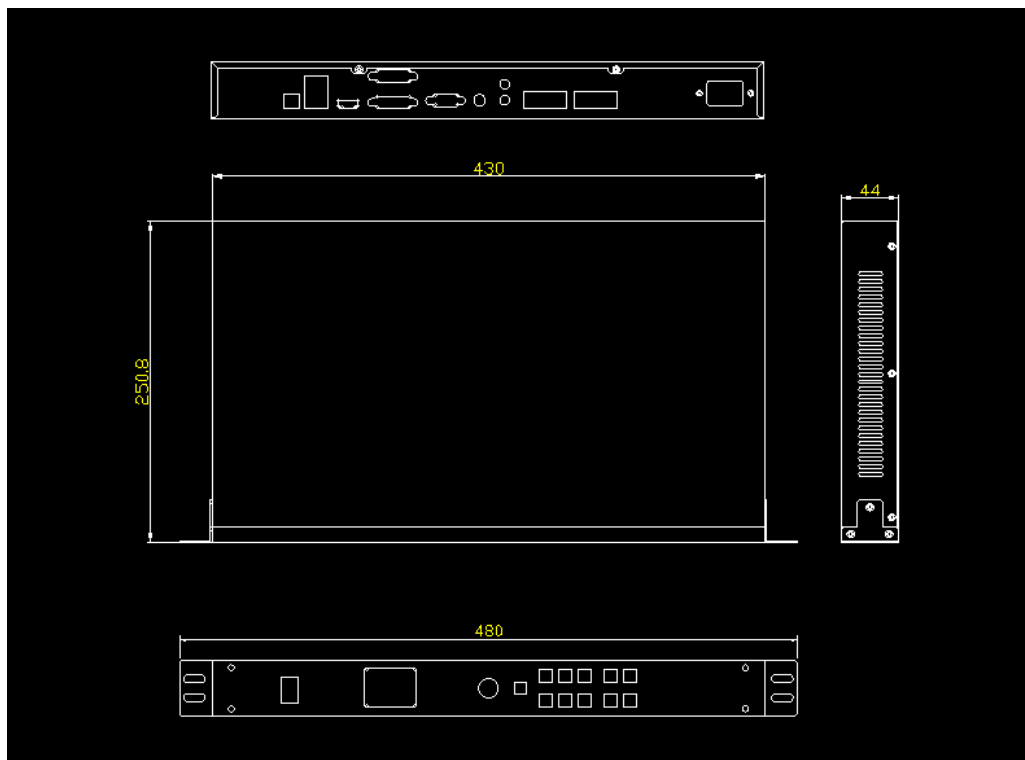
Backside Panel



| Input Interface | | | |
|-------------------------|------------------------|-----|--|
| # | Interface Type | QTY | Illustration |
| 2 | HDMI | 1 | Signal Standards : DVII.0HDMI1.3 Downwards Compatible ; Resolution Supported : VESA Standards 1920x1200 |
| | DVI | 1 | Signal Standards : DVII.0HDMI1.3 Downward Compatible; Resolution Supported : VESA Standards 1920x1200 |
| | VGA | 1 | Signal Standards: Analog RGB; Resolution Supported : VESA Standards 1920x1200 |
| | CV | 1 | Signal Standards : PAL/NTSC; Resolution Supported : 480i,576 |
| 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

| | | |
|---|--|--------------------------------------|
| <i>Electric Parameters</i> | <i>Input Voltage</i> | <i>AC-100-240V-50/60HZ</i> |
| | <i>Rated Power</i> | <i>20W</i> |
| <i>Operating Environment</i> | <i>Operating Temperature</i> | <i>-20 °C - 70 °C</i> |
| | <i>Operating Humidity</i> | <i>10%RH-90%RH No Solidification</i> |
| <i>Dimensions</i> | <i>480 x 250.8 x 44 mm(Length x Width x Height)</i> | |
| <i>Net Weight</i> | <i>3.6KG</i> | |
| <i>Contour Dimension of Pac</i> | <i>515×130×355mm</i> | |
| <i>Gross weight (including packaging)</i> | <i>4KG</i> | |

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.*