Mooncell

MVB2S 2 In 1 Processor Series

Specification V4.0

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1 Product Overview

Product Introduction

MVB2S is an easy-to-operate and feature-rich device that specially developed for LED displays. It supports high-definition multi-type interface input, integrates professional display control technology and powerful video processing capabilities, and it simplifies the scene environment to build a video processor.Using high-performance image processing chip; with advanced interlaced image adaptive processing technology and ultra-clear noise reduction engine, eliminating video image motion smearing and jagged phenomenon, the video image enhancement technology makes the image clearer and more detailed, rich in details, and full of colors , Image quality is stable.

Product Features

➢ **It has 2 channels of gigabit network port output to directly connect to the receiving card, simplifying the on-site environment construction.**

➢ **It is not necessary to debug the display screen through a computer, and the display screen can be simply debugged using MVB2S.**

➢ **The USB ports on the front and rear panels support USB playback, plug and play.**

➢ **The input channel can be switched seamlessly.**

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

- ◇ **It supports USB play, the video and picture could be played together.**

- ◇ **It supports 3 zoom modes: Full Screen Zoom, Point-to-Point Display and Custom Zoom.**

- ◇ **It supports seamless switching or fade-in and fade-out between multiple signal input channels to enhance and present professional-quality presentation pictures.**

- ◇ **It supports the quick screen connection, with very simple operation,the screen configuration could be completed.**

- ◇ **The intuitive LCD display interface on the front panel and clear button light prompts simplify the control operation of the system.**

- ◇ **It support to create 8 user scenes as templates, save them and call them directly, which is convenient to use.**

- ◇ **It supports 2 Ethernet Port Outputs, the maximum loading capacity could reach up to 1.3 million pixels.**

- ◇ **it supports to adjust the positions and sizes of the window and also the window capture function is supported.**

- ◇ **it supports external independent audio input and output.**

- ◇ **The output resolution could be user defined(custom the resolution)**

✧ **The Input EDID could be user defined (customized)**

✧ **It supports the synchronous switching of the video and audio.**

✧ **It supports the switching of the partial or Full Screen.**

✧ **It supports to have just one-click to get the black screen.**

3 Product Parameters

Basic Parameters

Loading Capacity	Single Network Port	650 thousand pixels
	The entire unit	1.3 million pixels
Output Resolution	Widest：3840/ Highest：1920	
Input Resolution	The maximum resolution it could support：1920X1080@60HZ	

Hardware Introduction

#	Keys	Illustrations
1	ON/OFF	Power ON/OFF
2	LCD Display	To display the current status of the device and to have the menu settings.

3	Knob	1、In the main interface,press the knob to enter the menu operation interface; 2、In the menu operation interface,rotate the knob to choose the menu, press the knob to select the current menu or enter its sub-menu. 3、Once the menu that is with parameters selected, you could rotate the knob to adjust the parameters, and make sure to double press the knob to confirm.
4	Esc	Return(ESC)/Cancel the current menu or operation.
5	SCALE	Full Screen Scale Shortcut Key
6	HDMI	Input Source Key Description: HDMI: HDMI Source Input Key, when it is on U-Disk playing ,to press" ", to pause or play the file. DVI: DVI Source Input Key, when it is on U-Disk Playing, to press the " ⏮ ", to select to play the previous file. VGA: VGA Source Input key, when it is on the U-Disk playing to press the " ⏭ ", to selcet to play the next file. USB: External Media Playing, U Drive Disk Playing Input
7	MODE	Save and load shortcuts Key for scenes
8	INC	Inspection shortcut Key
9	Black	One Click to get the Black Screen Shortcut Key

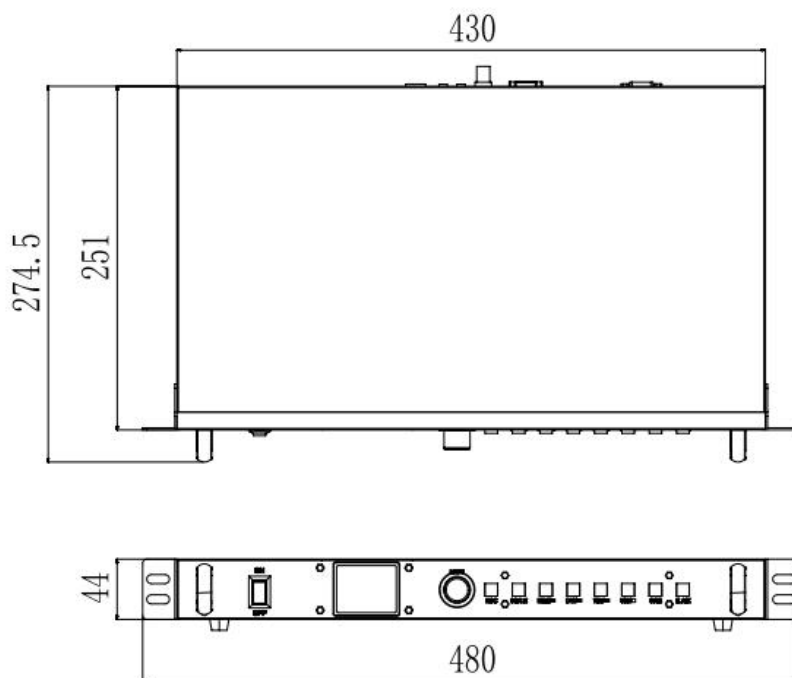| Input Ports			
#	Ports	Unit	Illustrations
3	HDMI	1	HDMI1.3 Standards，the maximum resolution it could support: 1920×1080@60Hz. It is downwards compatible and support HDCP1.4。
4	DVI	1	the maximum resolution it could support: 1920×1080@60Hz. It is backwards compatible
5	AUDIO IN	1	3.5mm Audio Interface.

6	USB	1	1×USB 2.0 Interface ， connecting to the U-disk ， it supports 1080p@30fps Video files。 The U-Disk File System Supports NTFS、 FAT32 and FAT16， but the exFAT （FAT64）is not supported. Image Formats：jpg、jpeg、png and bmp。 Video Encoding： MPEG1/2， MPEG4， Sorenson H.263， H.263，H.264(AVC1)， H.265(HEVC)， RV30/40，Divx， Xvid。 Video Bit Rate：Below 4000 Audio Encoding： MPEG1/2 Layer I， MPEG1/2 LayerII， MPEG1/2 Layer III，AAC-LC， VORBIS， PCM and FLAC。
		Output Ports	
#	Port	Unit	Illustration
7	Network Port	2	2 Ethernet Port Output,directly connecting to the receiving card.
8	AUDIO OUT	1	3.5mm Audio Port It supports the audio channel：3.5mm audio

			channel、HDMI、USB
Control Ports			
#	Ports	Unit	Illustration
1	RS232	1	Debug Series Connection Port
	LAN	1	Gigabit network communication interface
2	USB-B	1	USB Port
8	4G	1	4G antenna interface

Product Applications

网线

DVI   HDMI   USB

Dimensions

430

274.5

251

44

480

4 Product Specifications

Specifications

Electric Parameters	Input Voltage	AC-100-240V-50/60HZ
	Rated Power	11W
Operating Environment	Operating Temperature	-20℃ - 70℃
	Operating Humidity	10%RH-90%RH(No Freezing)
Product Dimensions	430 x 251 x 44 mm（Length x width x height）	
Net Weight	2.53Kg	

Precautions

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

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

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