# Mooncell

# MVB10E   2IN1 Video Processor

# Specification V3.3

# 1 Product Overview

## Product Introduction

MVB10E is a professional led display controller that has integrated the video splicing and the sending processing with powerful video signal receiving,splicing and processing abilities. The maximum loading capacity could reach up to 6.5 million pixels.

MVB10E has 10x Gigabyte Ethernet Output Ports and a series of rich & useful functions, it provides a flexible controlling of the display with high quality of the images, it is suitable for all kinds of displays with different standards.

## 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.

Network Cable
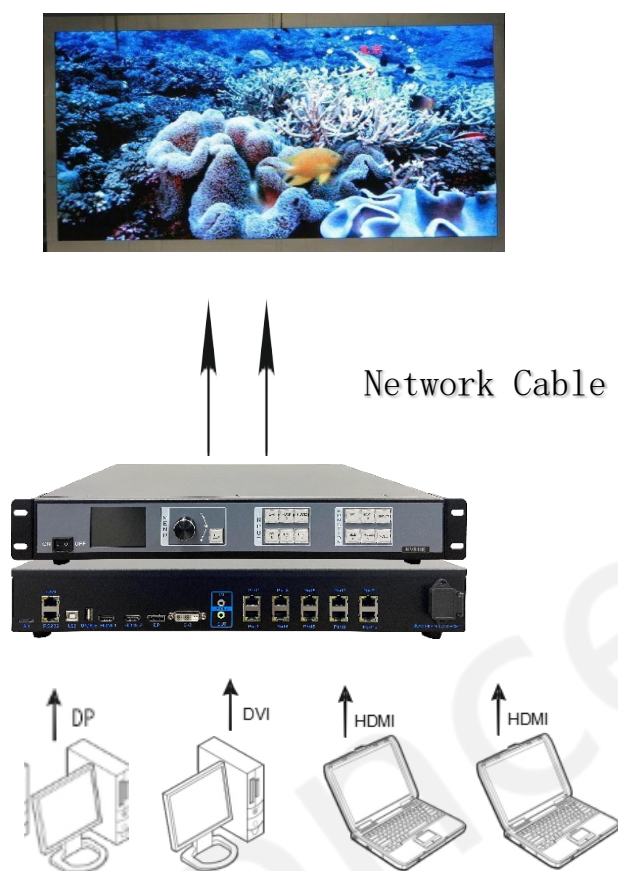
# 2 Function Introduction

➢ The loading capacity could reach up to 6.25 million pixels. The output resolution could be customized and the maximum 8192 pixels from the width, 3840 pixels from the height.

➢ 4 Windows are able to be displayed simultaneous, output resolution width greater than 4096, only a single screen display

➢ Freely Switching between the Audio and Video/ Adjusting the Volume

➢ supports 100 Gigabit Ethernet and USB and serial port debugging control

➢ Input Ports：：DVI*1,HDMI*2, DP*1, HDM (Built in)*1, Audio*1

➢ To save the template and use it.

➢ Seamlessly switching between multiple windows, seamless single layer switching.

➢ Turn the screen to black with just one button

➢ Built in with online debugging function Press to lock or unlock the device

➢ Plugging in the USB Flash to upgrade the firmware of the device

➢ Built-in test graphics card

➢ Time Task Sheet

# 3 Product Parameters

## Basic Parameters

| Loading Capacity | 1 Network Port | 650 thousand pixels |
|---|---|---|
| | 1 unit ( entire unit) | 6.5 million pixels |
| The Highest Loading Pixel | 8192 | |
| The Widest Loading Pixel | 3840 | |

## Hardware Introduction

## Front Panel



| Front Panel Illustration | | |
|---|---|---|
| # | Buttons | Illustration |
| 1 | Power ON/OFF | Device Power ON/OFF |
| 2 | LCD | Display action menu |
| 3 | operation button | Knob keys, selectable menu<br>Back button |

| 4 | Numeric numbers | Scene Template Call |
|---|---|---|
| | | DVI/ Number key 1 |
| | | HDMI 1/Number key 2 |
| | | HDMI 2/ Number key 3 |
| | | DP / Number key 4 |
| | | HDMI 3 |
| | | Test |
| 5 | Function Buttons | Win- Layer selection/number keys 4 |
| | | Part-Partial/full screen /number 5 |
| | | TEMPLATE- Multiscreen template |
| | | SIZE-Resize screen shortcut/number keys 9 |
| | | FREEZE-Image black screen/number keys 0 |
| | | Mode- Shortcut for loading scene |

## Backside Panel
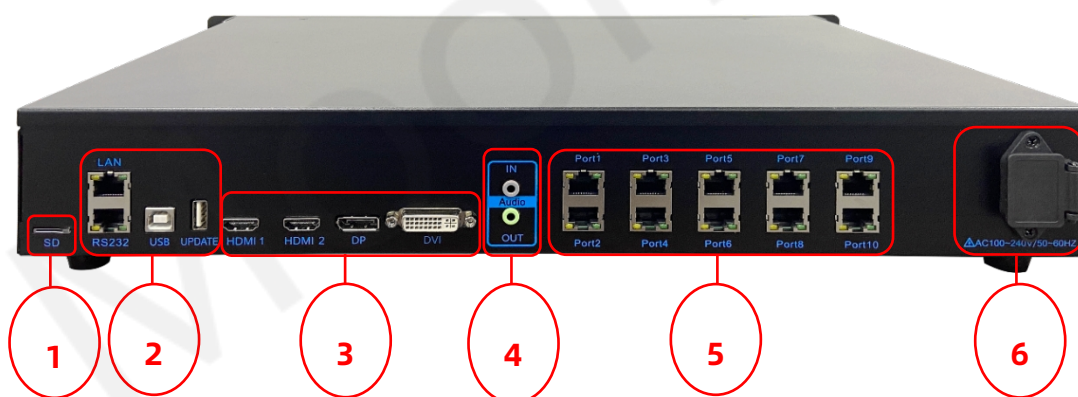


| Input Interface | | | |
|---|---|---|---|
| | Interface Type | QTY | Illustration |
| 3 | DVI | 1 | 1920X1080/60HZ, 3840 * 540/60HZ and EDID customization |
| | HDMI1 | 1 | 1920X1080/60HZ, 3840 * 1080/60HZ and EDID customization |
| | HDMI2 | 1 | 1920X1080/60HZ, 3840 * 1080/60HZ and EDID |

| | | | |
|---|---|---|---|
| | | | customization |
| | HDMI Built-in | 1 | 1920X1080/60HZ, 3840 * 1080/60HZ and EDID customization |
| | DP | 1 | 1920X1080/60HZ, 3840 * 2160/60HZ and EDID customization |
| 5 | Gigabit Ethernet port | 10 | Interface Type： RJ45<br>Transfer speed：1000BaseTX<br>Support receiving cards: Mooncell series receiving cards and multi-function cards |

**Audio interface**

| | Interface Type | QTY | Illustration |
|---|---|---|---|
| 4 | AUDIO IN | 1 | 3.5mm audio interface input |
| | AUDIO OUT | 1 | 3.5Mm audio interface output |

**Processor Control Interface**

| | Interface Type | QTY | Illustration |
|---|---|---|---|
| 2 | UPDATE | 1 | USB upgrade port |
| | USB | 1 | Send card debugging interface, connect to AutoLED software |
| | LAN1 | 1 | 100M network communication interface (reserved interface) |
| | RS232 | 1 | Serial interface |

**Extended Function Interface**

| | Interface Type | QTY | Illustration |
|---|---|---|---|
| 1 | SD Card | 1 | Install SD card to store large screen configuration parameters for data inspection |

**Power interface**

| | Interface Type | QTY | Illustration |
|---|---|---|---|
| 6 | Power interface | 1 | AC power input interface 100V~ 240V |

# Dimensions:
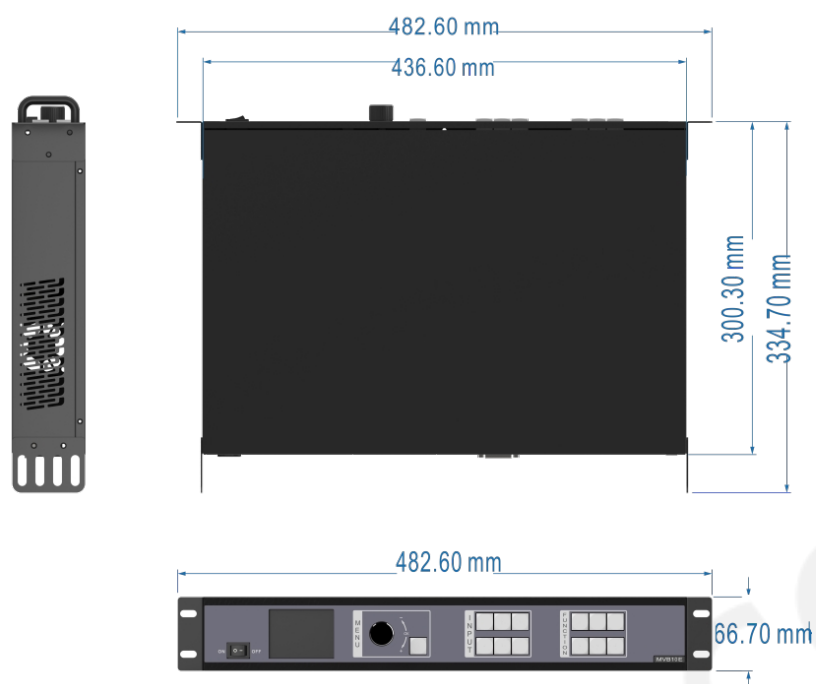
# 4 Product Specifications

## Specifications

| Electric Parameters | Input Voltage | AC-100-240V-50/60HZ |
|---|---|---|
| | Rated Power | 25W |
| Operating Environment | Operating Temperature | 0℃ - 45℃ |
| | Operating Humidity | 10%RH-90%RH No Solidification |
| Dimensions | 482.6 x 300.3 x 66.7 mm( Length x Width x Height) | |
| Net Weight | 3.7 kg | |
| Packaging information | 1 × certificate, 1 × DP cable, 1 × HDMI cable, 1 × DVI cable, 1 × USB2.0 cable, 1 × power cord | |
| | packing box:515×130×380mm | |

## 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.**