



*Shenzhen Mooncell Electronics Co., Ltd*

# **Video Splicer Series**

## **MVP1000S Series Specifications**

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# Update Records

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File Version	Release Date	Update Records
V3.0	12/07/2022	First release
V3.1	09/03/2023	Updated the description of the input and output interface.
V3.2	22/03/2023	Modify 3U and 5U specifications

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# 1 Product Overview

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## Product Introduction

The MVP1000S series video splicing processor is the latest super intelligent and cost-effective video signal processing equipment launched by Mooncell. Housed in a modular 3U/5U/7U/14U standard chassis, it seamlessly integrates both digital and analog signal support, which can realize high definition and smooth display of video signals with 4K@60Hz and below resolutions on spliced screens of different specifications. In addition, it adopts 4:4:4 color processing, which can achieve a large-screen display effect with rich colors, clear image quality and true delicacy.

## Application Scenarios

The MVP1000S series video splicing processors can fully meet the ultra-high definition application requirements of command and dispatch centers, conference report centers, exhibition and display centers, data operation and maintenance centers, radio and television centers and other scenarios.

# 2 Functions Introduction

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- Supports various input signals including DVI, HDMI1.3, HDMI1.4, HDMI2.0, DP1.2, VGA, SDI, and more.
- Support HDMI1.3, DVI, DP1.2 output signals.
- Seamless switching between input signal sources.
- Supports PC scenes and the ability to save scene files.
- Allows for arbitrary layering of all signals, with multi-screen roaming and scaling.
- Supports irregular display screen splicing.
- Can modify the EDID of input interfaces.
- Supports hot backup of input signals.
- Enables scheduled scenes and scene rotation.
- Supports signal source cropping and local zooming.
- Features frame synchronization functionality.
- Can customize resolution, single port up to 3840/up to 3840.
- Different resolutions can be set between the output ports.
- Supports intelligent resolution settings.
- Enables intelligent irregular splicing.
- Supports HDMI audio input.
- Supports on-screen display of input signal logos.

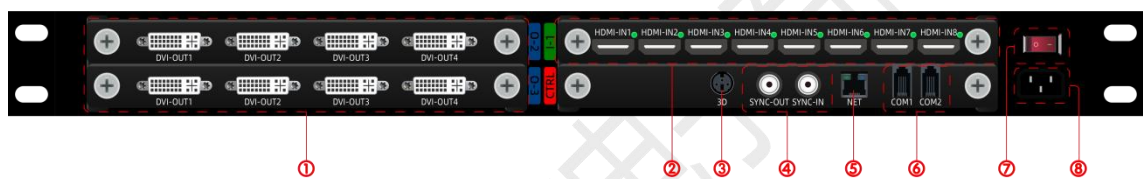
# 3 Product Appearance

MVP1000S-1U

## Front Panel



## Rear panel

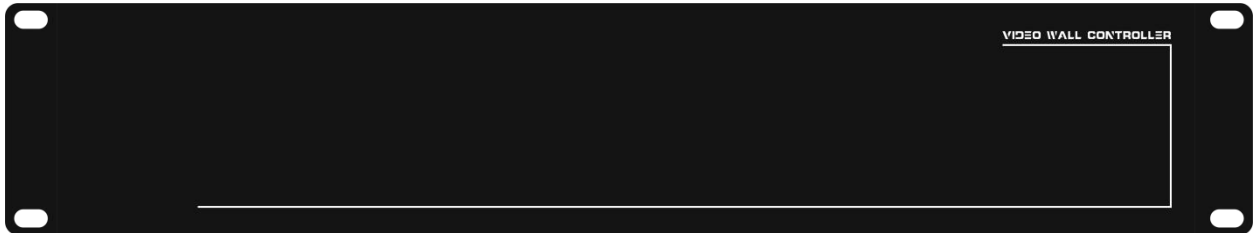


序号	Illustration
①	Output Slots (Optional Cards:DVIx4、HDMI1.3x4、DP1.2x2)
②	2K/4K Input Slots (Optional Cards: DVIx4/HDMI1.3x4/HDMI2.0x2/DP1.2x2/HDMI1.4x4/HDMI1.3x8/VGAx4/3G-SDIx4)
③	3D-IN Interface (Not Supported)
④	GenLock
⑤	RJ45
⑥	RS232
⑦	Power On/Off
⑧	Power Socket

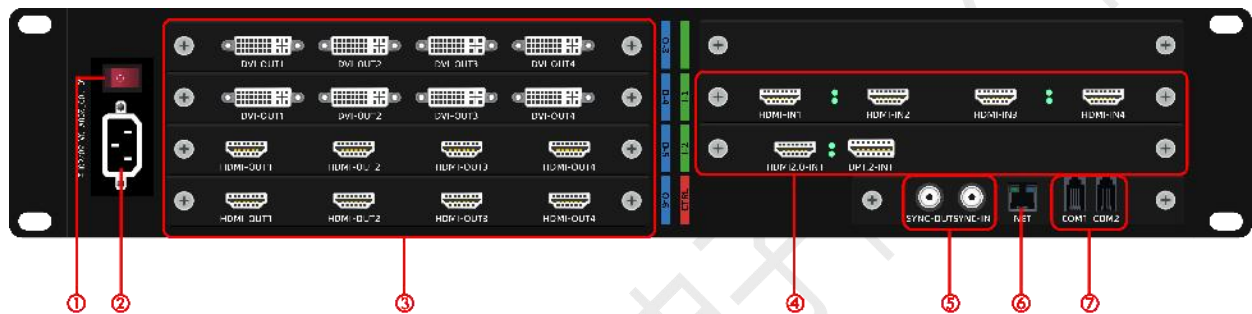
**Attention: 1U model does not support screen preview, group management**

# MVP1000S-2U

## Front Panel



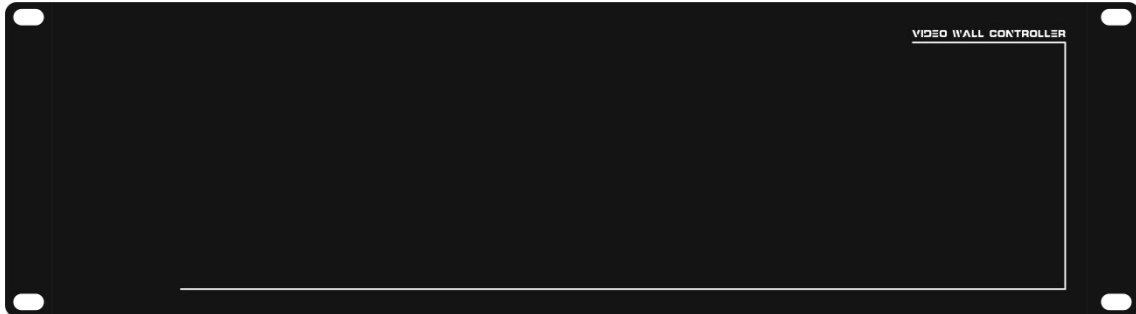
## Rear panel



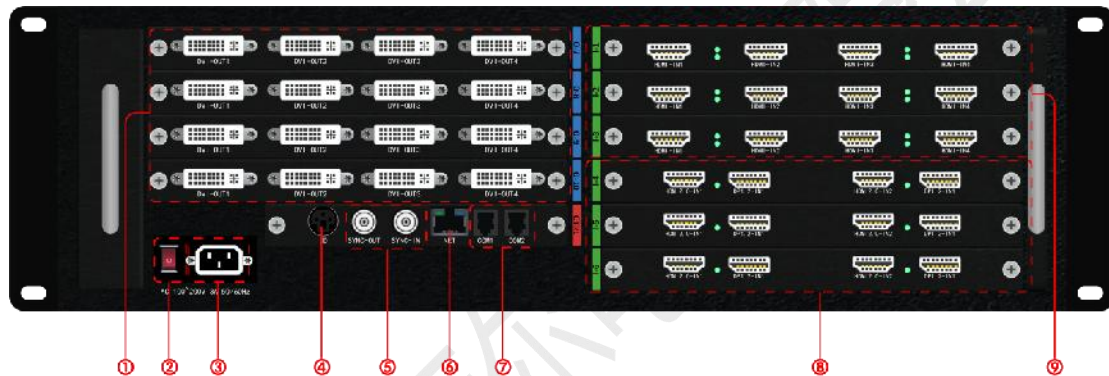
序号	Illustration
①	Power On/Off
②	Power Socket
③	Output Slots (Optional Cards: DVIx4、HDMI1.3x4、DP1.2x2)
④	Input Slot (Optional Cards: DVIx4, HDMIx4, HDMI2.0x1, DP1.2x1, HDMI1.4x2, VGAx4, 3G-SDIx4)
⑤	GenLock
⑥	RJ45
⑦	RS232
Attention: 2U models do not support group management	

# MVP1000S-3U

## Front Panel



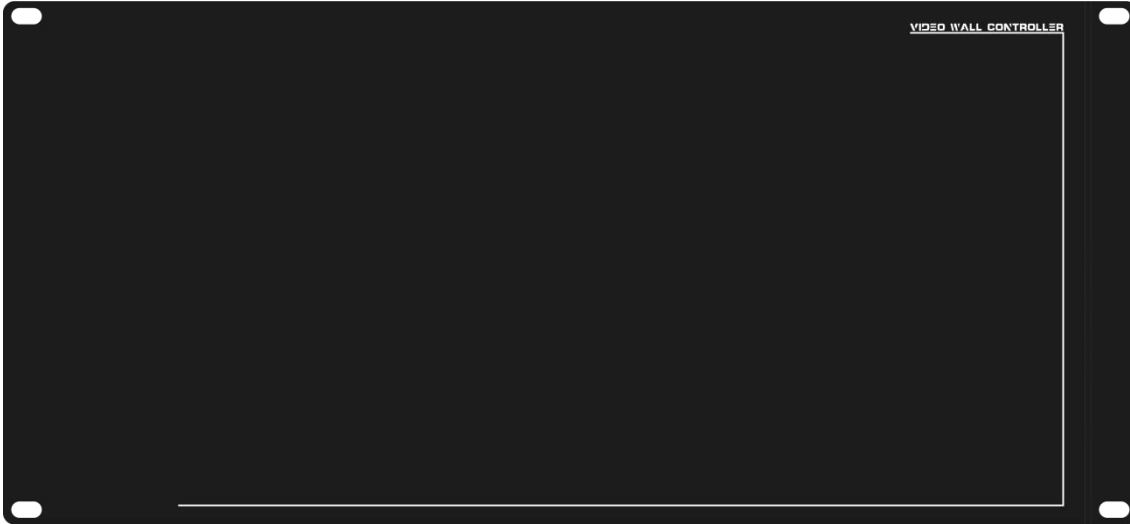
## Rear panel



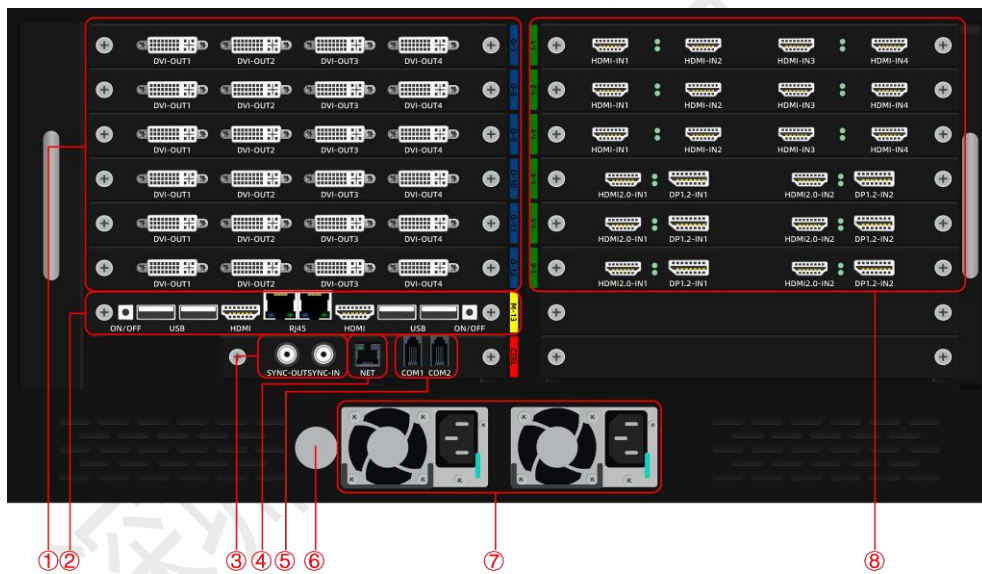
序号	Illustration
①	Output Slots (Optional Cards: DVIx4、HDMIx4、DP1.2x2)
②	Power On/Off
③	Power Socket
④	3D-IN Interface (Not Supported)
⑤	GenLock
⑥	RJ45
⑦	RS232
⑧	2K/4K Input Slots(Optional Cards: HDMI2.0x2/DP1.2x2/HDMI1.3x8/HDMI1.3x4/DVIx4/HDMI1.4x4/VGAx4/3G-SDIx4)
⑨	2K input slot:(DVIx4/HDMI1.3x4/HDMI1.4x4/VGAx4/3G-SDIx4)

# MVP1000S-5U

## Front Panel



## Rear Panel

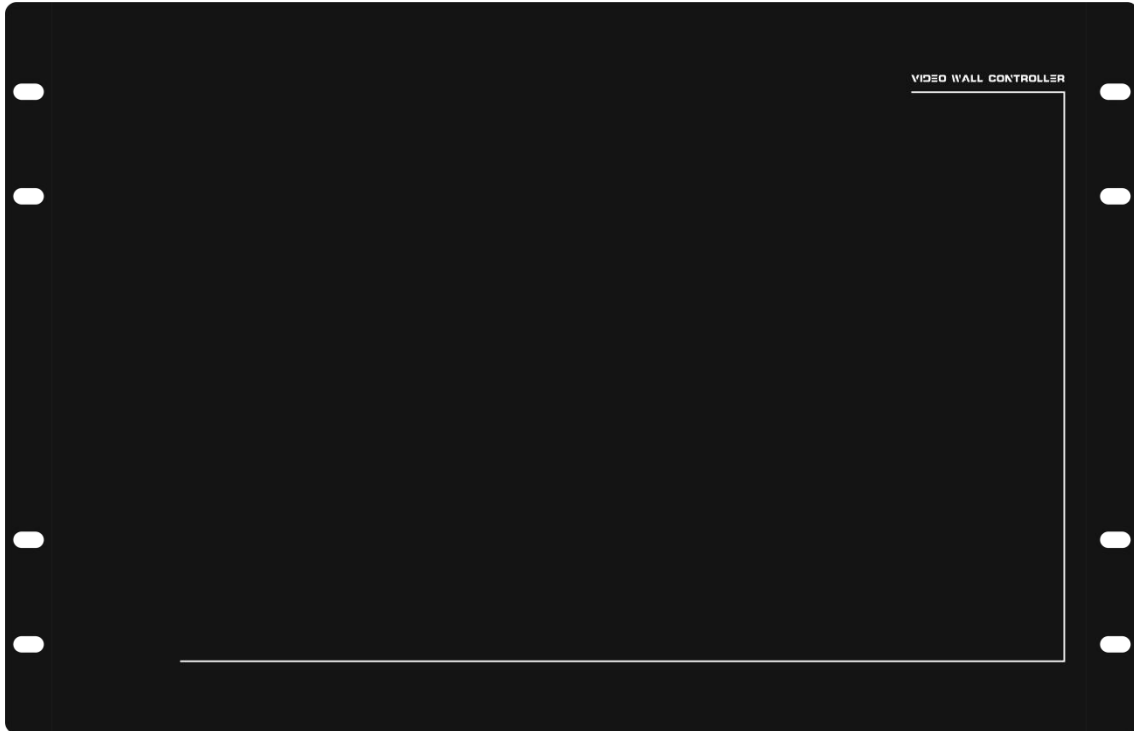


序号	Illustration
①	Output Slots : (DVIx4、HDMIx4、DP1.2x2)
②	Video Output Card slot
③	Genlock
④	RJ45
⑤	RS232
⑥	Power On/Off
⑦	Redundant power supply
⑧	2K/4K Input Slots (DVIx4/HDMI1.3x4/HDMI2.0x2/DP1.2x2/HDMI1.3x8/HDMI1.4x4/VGAx4/3G-SDIx4)

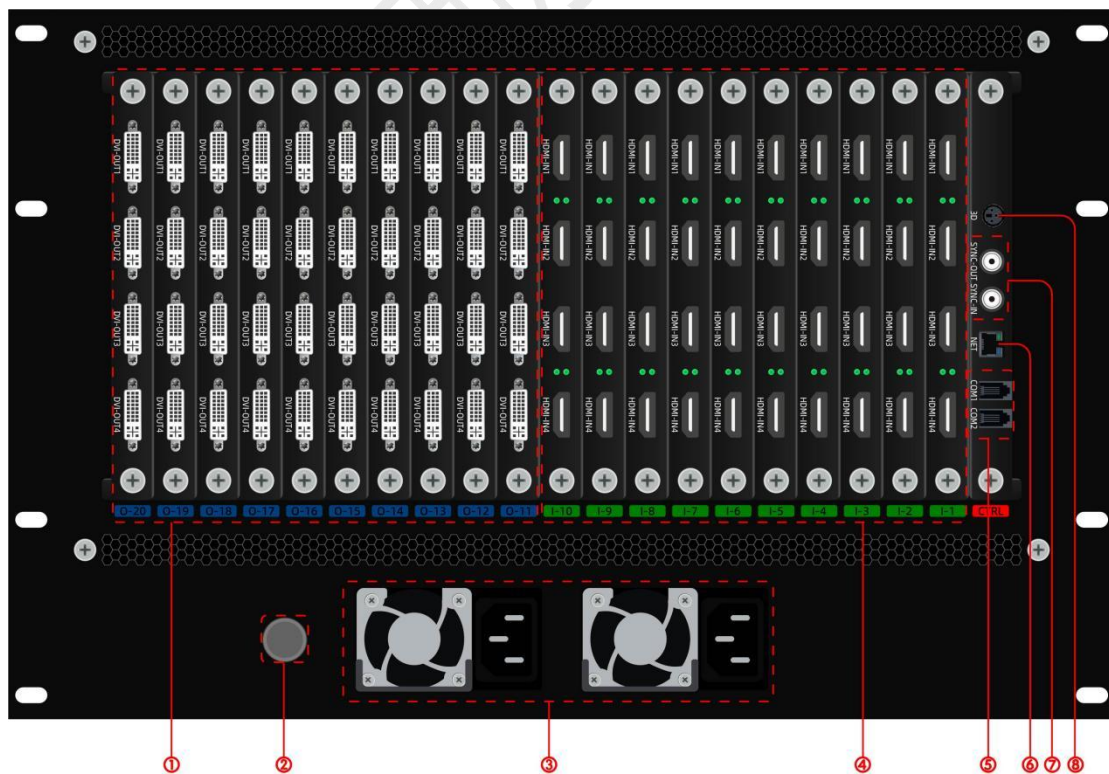
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# MVP1000S-7U

## Front Panel



## Rear Panel

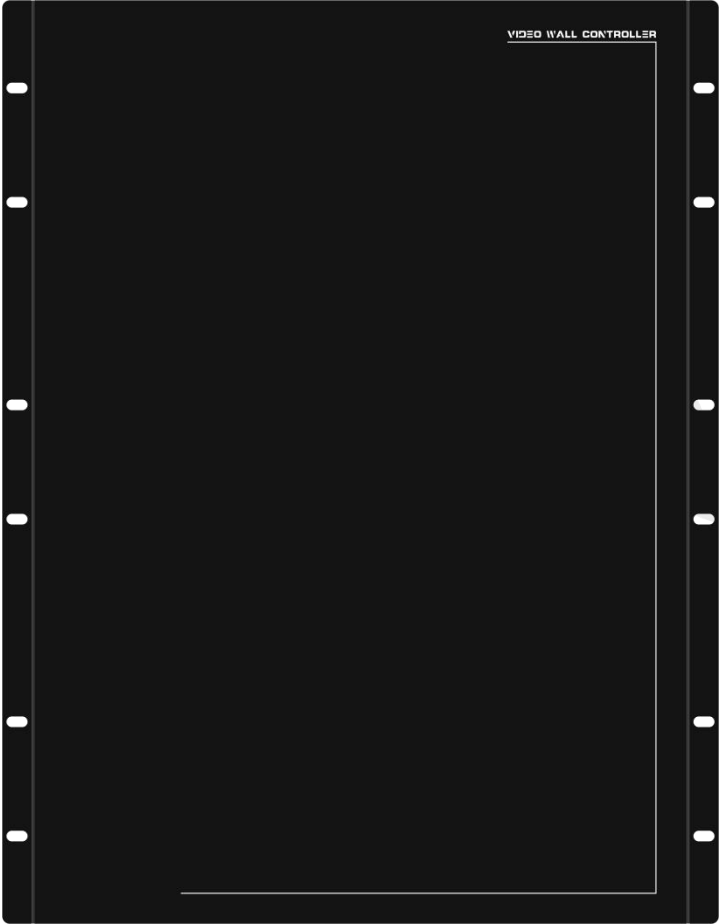


序号	Illustration
①	Output Slot (Optional Cards: DVIx4、HDMIx4、DP1.2x2)
②	Power On/Off
③	Power Socket
④	2K/4K Input Slots (Optional Cards: DVIx4/HDMI1.3x4/HDMI2.0x2/DP1.2x2/HDMI1.3x8/HDMI1.4x4/VGAx4/3G-SDIx4)
⑤	RS232
⑥	RJ45
⑦	GenLock
⑧	3D-IN (Not Supported)

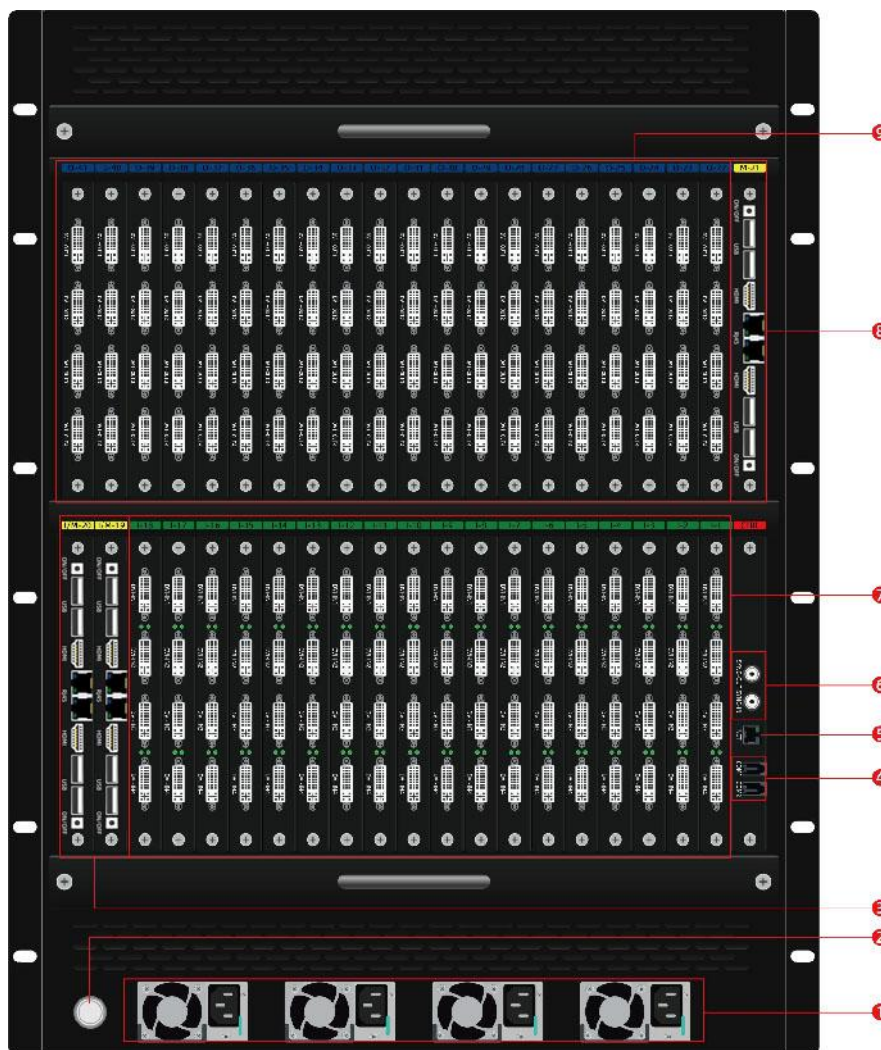
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# MVP1000S-14U

## Front Panel



## Rear Panel



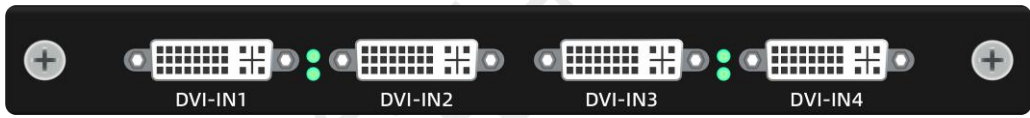
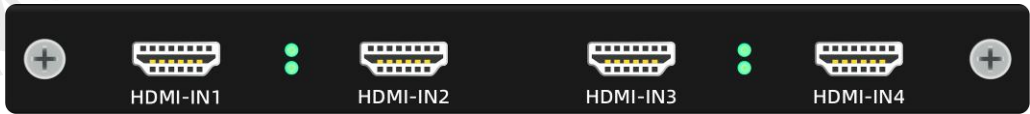
序号	Illustration
①	Power supply
②	Power On/Off
③	Video Output Card and Input Slots( Public)
④	RS232
⑤	RJ45
⑥	GenLock
⑦	2K/4K Input Slots(Optional Cards: DVIx4/HDMI1.3x4/HDMI2.0x2/DP1.2x2/HDMI1.3x8/HDMI1.4x4/VGAx4/3G-SDIx4)
⑧	Echo Card Slot
⑨	Input Slots (Optional Cards: DVIx4、HDMIx4、DP1.2x2)

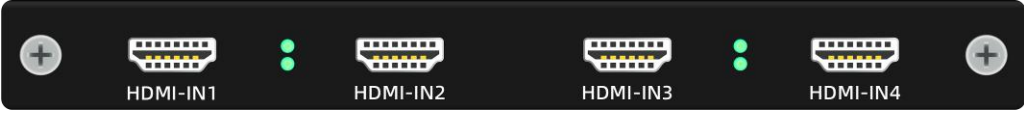

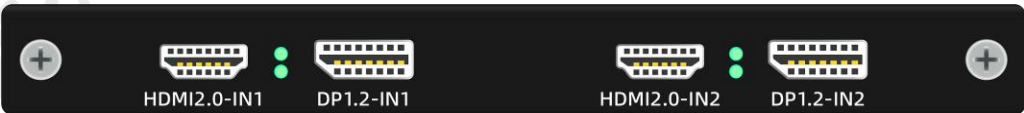
# 4 Product Specifications




Product Model	MVP1000S Series					
Chassis	1U	2U	3U	5U	7U	14U
Maximum Outputs	2K-8x ; 4K@30HZ-4x; 4k@60HZ-2x	2K-8x; 4K@30HZ-4 x; 4k@60HZ-2x	2K-36x; 4K@30HZ-24x ; 4k@60HZ-6x	2K-48x; 4K@30HZ-24 x; 4k@60HZ-12x	2K-80x; 4K@30HZ-40 x; 4k@60HZ-20x	2K-160x; 4K@30HZ-80 x; 4k@60HZ-40 x
LED OUTS	8	16	16	24	40	80
Loading Capacity/LED OUT	2600Tousand					
Maximum Image Layers	16	32	32	48	80	160
Maximum Loading Capacity	20.8 million	41.6million	41.60million	62.4million	104million	208million
Widest/Highest Pixels/Port	3840/3840					
maximum Number of screens	160					
Audio	It supports HDMI audio input					
Video Output Card	Not Supported	Not Supported	Not Supported	It supports 1 PCS	Not Supported	Support up to 3 pcs
<b>Specs</b>						
Chassis	1U	2U	3U	5U	7U	14U
Dimensions	482.6×270×44.5 mm (Length×Width×Height)	482.6×270×88 .9mm (Length×Width×Height)	482.6×315×133 mm (Length×Width×Height)	482.6×315×22 2.5mm (Length×Width×Height)	482.6×315×31 0mm (Length×Width×Height)	482.6×438×66 2.3mm (Length×Width×Height)


<b>Chassis Weight</b>	<b>3.6Kg, Error: ±0.5kg</b>	<b>6.3Kg, Error: ±0.5kg</b>	<b>7.8Kg, Error: ±0.5kg</b>	<b>13.7Kg, Error: ±0.5kg</b>	<b>15.0Kg, Error: ±0.5kg</b>	<b>30.0Kg, Error: ±0.5kg</b>
<b>Voltage</b>	<b>110~240V</b>					
<b>Power Frequency</b>	<b>50~60Hz</b>					
<b>Power consumption</b>	<b>50.4W</b>	<b>102W</b>	<b>204W</b>	<b>550W*2</b>	<b>550W*2</b>	<b>550W*4</b>
<b>Heat Dissipation</b>	<b>Fan</b>					
<b>Operating Temperature</b>	<b>0~50°C</b>					

## Input Interfaces

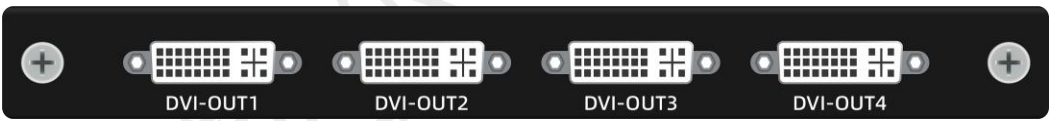

Interface Types	Signal Specs
<b>DVIx4</b>	 <p>Supports only VESA standard DVI-D digital signal;</p> <ul style="list-style-type: none"> <li>• Single port resolution supports a maximum of 2048×1152@60Hz and a minimum of 800×600@60Hz</li> <li>• Supports EDID customization</li> </ul> <p>Interface indicator light status explanation:</p> <ul style="list-style-type: none"> <li>• On: Input source is properly connected;</li> <li>• Off: No signal source connected or signal source is abnormal;</li> </ul>
<b>HDMI1.3x4</b>	 <p><b>EIA/CEA-861 standard</b>, HDMI1.3×4 standard,</p> <ul style="list-style-type: none"> <li>• Single port resolution supports a maximum of 2048×1152@60Hz and a minimum of 800×600@60Hz</li> <li>• Supports EDID customization</li> </ul>


	<p>Interface indicator light status explanation:</p> <ul style="list-style-type: none"> <li>• On: Input source is properly connected;</li> <li>• Off: No signal source connected or signal source is abnormal;</li> </ul>
<p><b>HDMI1.4x4</b></p>	 <p>HDMI1.4 standard,</p> <ul style="list-style-type: none"> <li>• Supports 3840x2160@30Hz, 3840×1080@60Hz;</li> <li>• Supports EDID customization;</li> </ul> <p>Interface indicator light status explanation:</p> <ul style="list-style-type: none"> <li>• On: Input source is properly connected;</li> <li>• Off: No signal source connected or signal source is abnormal;</li> </ul>
<p><b>HDMI2.0x2</b></p>	 <p>HDMI2.0×2 standard,</p> <ul style="list-style-type: none"> <li>• Supports 3840x2160@60Hz, 4096×2160@60Hz, 1920×4800@60Hz, 7680×1080@60Hz;</li> <li>• Maximum width of 7680, maximum height of 4800;</li> <li>• Supports EDID customization;</li> <li>• Compatible with HDMI1.4 and HDMI1.3 video inputs;</li> </ul> <p>Interface indicator light status explanation:</p> <ul style="list-style-type: none"> <li>• On: Input source is properly connected;</li> <li>• Off: No signal source connected or signal source is abnormal;</li> </ul>
<p><b>DP1.2x2</b></p>	 <p>DP1.2×2 standard,</p> <ul style="list-style-type: none"> <li>• Supports 3840x2160@60Hz, 4096×2160@60Hz, 1920×4800@60Hz, 7680×1080@60Hz;</li> <li>• Maximum width of 7680, maximum height of 4800;</li> <li>• Supports EDID customization;</li> <li>• Compatible with DP1.1 video inputs;</li> </ul>

	<p>Interface indicator light status explanation:</p> <ul style="list-style-type: none"> <li>• On: Input source is properly connected;</li> <li>• Off: No signal source connected or signal source is abnormal;</li> </ul>
<p><b>HDMI1.3x8</b></p>	 <p>HDMI1.3 standard;</p> <ul style="list-style-type: none"> <li>• Maximum resolution for a single port: 2048×1152@60Hz, minimum resolution: 800×600@60Hz.</li> <li>• Supports EDID customization;</li> <li>• Supports only RSB 4:2:2 color depth processing;</li> </ul> <p>Interface indicator light status explanation:</p> <ul style="list-style-type: none"> <li>• On: Input source is properly connected;</li> <li>• Off: No signal source connected or signal source is abnormal;</li> </ul>
<p><b>VGAx4</b></p>	 <p>VESA standard;</p> <ul style="list-style-type: none"> <li>• Supports 1920x1080@60Hz resolution;</li> <li>• Interface indicator light status explanation:</li> <li>• On: Input source is properly connected;</li> <li>• Off: No signal source connected or signal source is abnormal;</li> </ul>
<p><b>3G-SDIx4</b></p>	 <p>3G-SDI interface, compatible with HD-SDI and SD-SDI standards.</p> <ul style="list-style-type: none"> <li>• Supports ST-424 (3G), ST-292 (HD), and SMPTE 259 SD standard video source inputs.</li> <li>• Maximum support for single-channel 1920×1080@60Hz video input.</li> <li>• Supports interlacing for 1080i/576i/480i.</li> </ul> <p>Interface indicator light status explanation:</p> <ul style="list-style-type: none"> <li>• On: Input source is properly connected.</li> <li>• Off: No signal source connected or signal source is abnormal.</li> </ul>

<b>Video Output Card</b>	
	<ul style="list-style-type: none"> <li>• Supports up to 64 signal source video playback on the screen.</li> <li>• Maximum of 32 signal source video playback on a single network port.</li> <li>• USB interface is not currently available for external use.</li> </ul>

## Output Interfaces

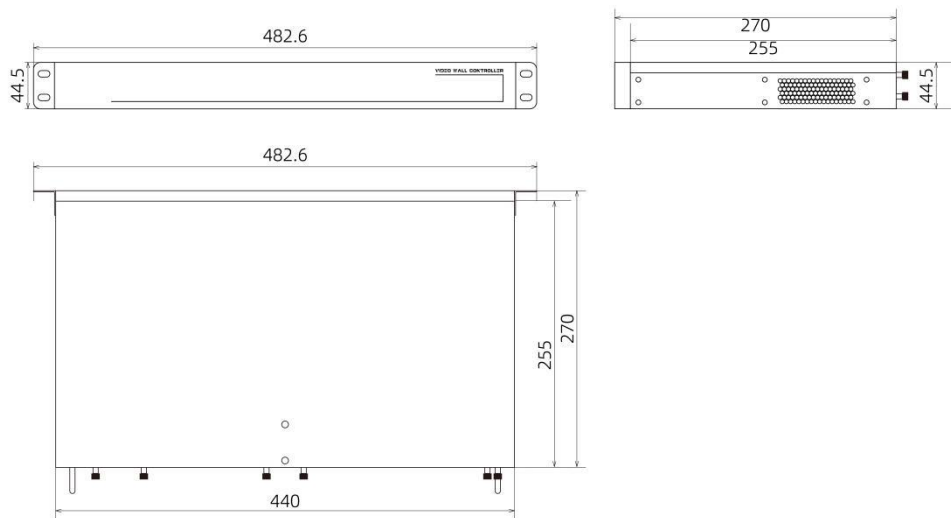
Interface Type	Signal Specs
<b>DVIx4</b>	
	<p><b>DVI Standard;</b></p> <ul style="list-style-type: none"> <li>• Single port maximum load 2.60 million point;</li> <li>• Support custom output resolution, smart mode resolution;</li> <li>• Support 8bitRGB4:4:4;</li> </ul>
<b>HDMIx4</b>	
	<p><b>HDMI Standard;</b></p> <ul style="list-style-type: none"> <li>• Single port with 2.60 million points;</li> <li>• Support custom output resolution, smart mode resolution;</li> <li>• Support 8bitRGB4:4:4;</li> </ul>

<b>DP1.2x2 &amp; HDMI2.0 x2</b>	 HDMI2.0-OUT1    DP1.2-OUT1    HDMI2.0-OUT2    DP1.2-OUT2
	<b>HDMI2.0 &amp; DP1.2 Standard</b> <ul style="list-style-type: none"><li>• Single port with 2.60 million points; Choose two of the four usage methods (the card is divided into two groups, and each group can only use one of the signals)</li><li>• Single port with 8.29 million points;</li><li>• Support custom output resolution, smart mode resolution;</li><li>• Support 8bitRGB4:4:4, 10bitRGB4:4:4, 12bitRGB4:4:4;</li><li>• Interface Indicator Status Description</li><li>• On: The output source is connected normally;</li><li>• Off: The signal source is not connected or the signal source is abnormal;</li></ul>

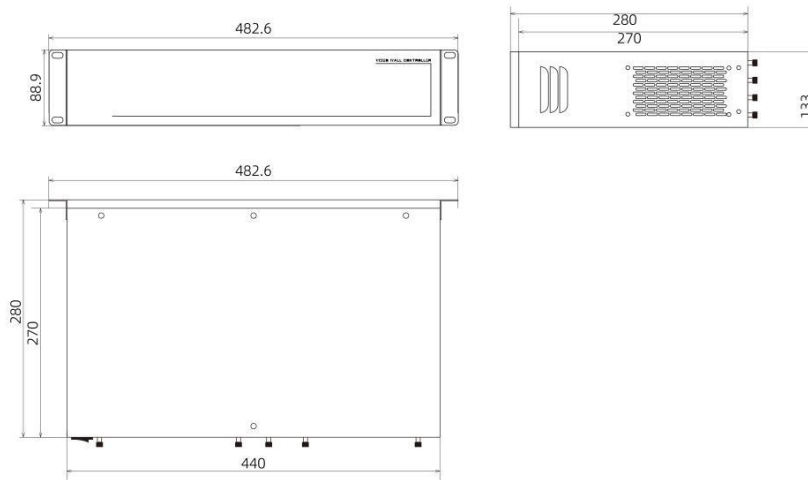
# 5 Product Dimensions

## Product Dimensions

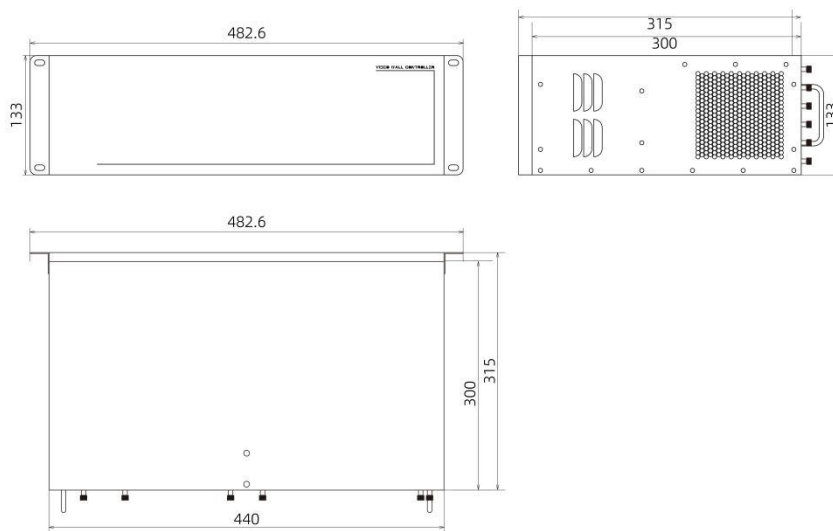
## MVP1000S-1U



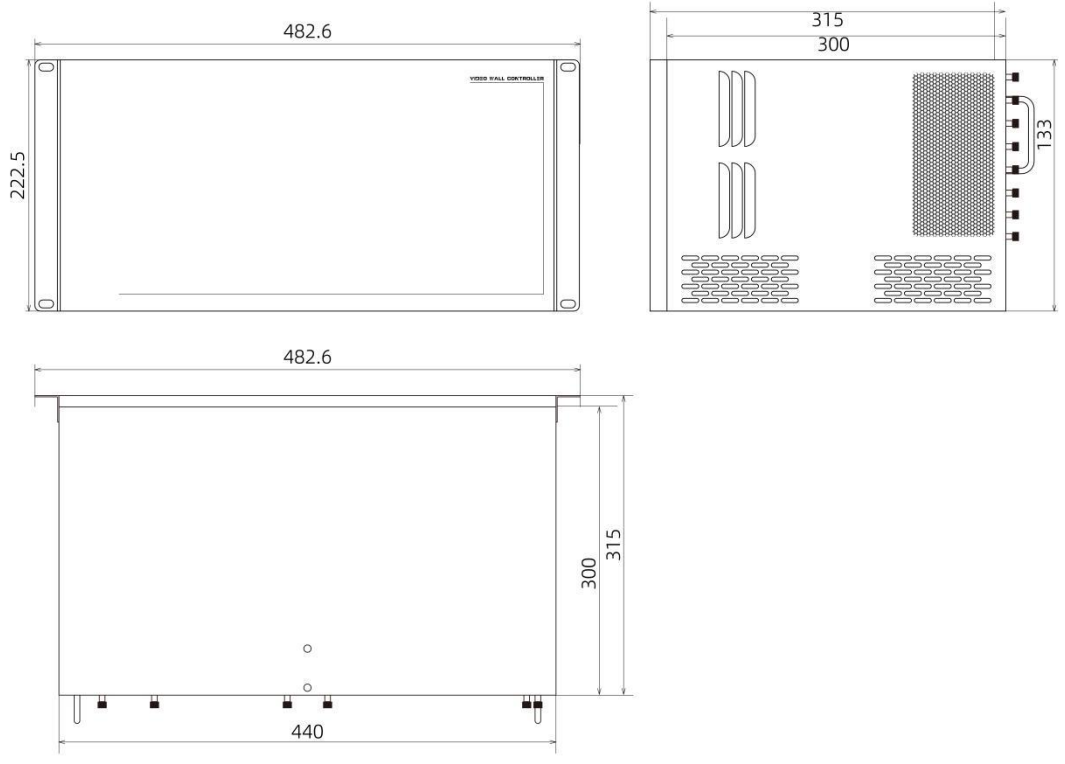
## MVP1000S-2U



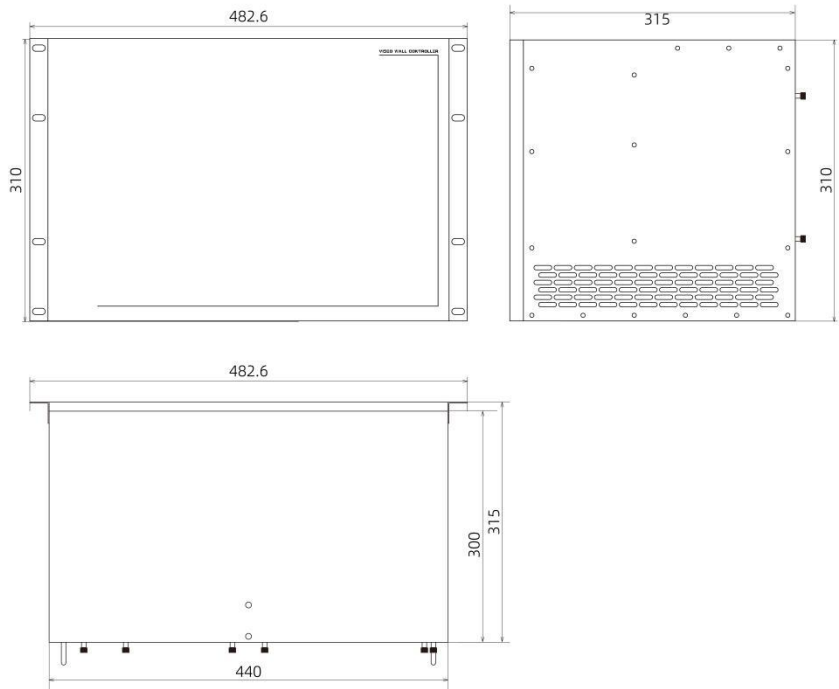
### MVP1000S-3U



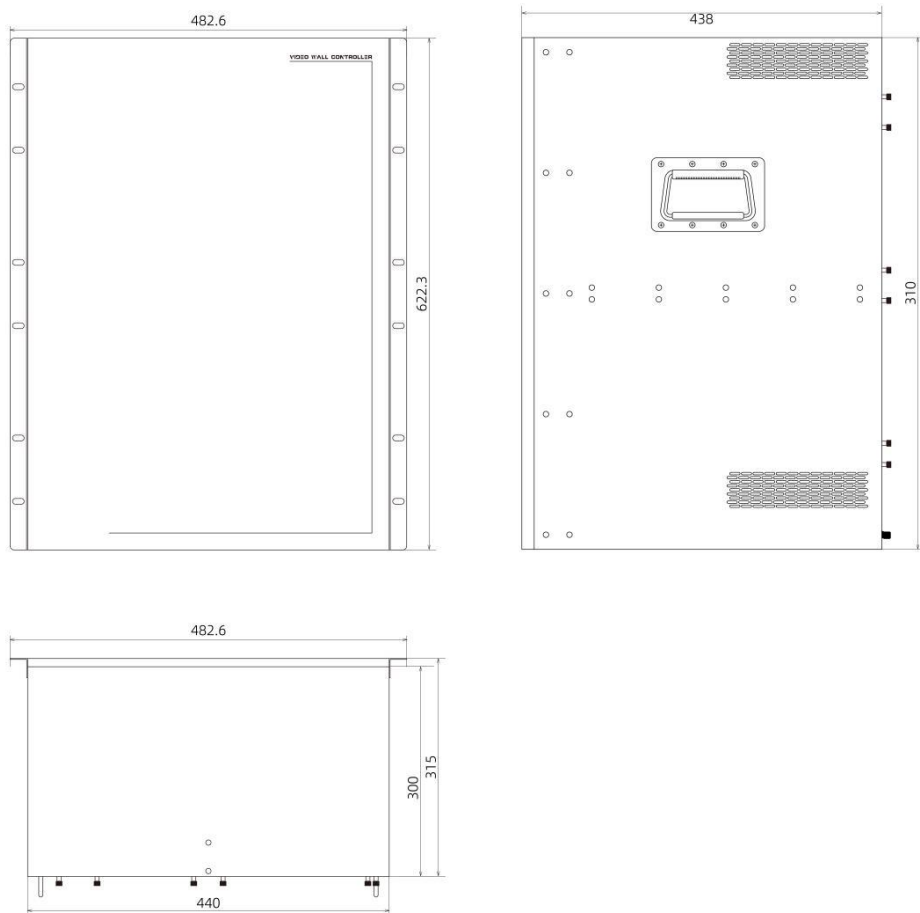
### MVP1000S-5U



**MVP1000S-7U**



**MVP1000S-14U**



## Please note the following precautions:

- High voltage danger: The operating voltage of this product is AC -100V to 240V.
- Do not allow liquids, metal fragments, or other conductive objects to enter the internal components of the device to avoid safety hazards.
- Please ensure that the device is used in a dry and clean environment.