

● Product Overview

BVP1000 professional video wall processor is YivivenA&V newest and best performing equipment. It supports 4K @ 60 Hz ultra-high definition video signal acquisition and transmission with full 4:4:4 chromaticity sampling in the RGB gamut. Utilizing FPGA architecture as well as modular design, BVP1000 retains Yiviven's traditional stable and reliable operational ability, but at the same time supports various interfaces and business modules for flexible and personalized combination, along with the convenience for future upgrading. The video wall controller which can both support LED wall and LCD wall, it's easy to adjust in the LED wall system, The new generation BVP1000 supports signal preview and monitoring, audio-visual synchronized switching, scrolling caption, It is compatible with various types of control interfaces, which makes the system exceptionally user friendly. Yiviven fills the gap between video control and display and brings a marvelous video wall processor with extraordinary management solution.

● Functional characteristics

○ Stale

Hardware-base, FPGA design for 24x 7 on line working make sure stable.

○ Flexible layout

Support Flexible layout ,can display 8 x 8 layer on each output, each window is capable for zooming ,overlay and PIP on the video wall.

○ Easy to use & install

Easy operation interface will help use to save lots of time cost ,just follow step will set it the system.

○ FPGA Design

Full hardware FPGA architecture, builtin core computing mechanism, excellent image processing performance

○ F4K@60 4:4:4 RGB

Supports 4K @ 60 ultra high Resolution video signal acquisition and transmission, video image resolution can reach all 4:4:4 chroma sampling in RGB gamut. Provides high quality image reproduction and image detail for video playback

○ Hot-Swap

Board-type hot-swappable structure, high chassis integration and highly reliable equipment

○ Pixel to Pixel

Each signal dynamically sets a Pixel to Pixel dedicated line data channel. Each signal has its own dedicated channel for transmission, which can switch between signals in a nanosecond with no black field interval

○ Multiple Video Wall Management

Multiple video wall group technology,
a single processor can simultaneously control multiple sets of video wall with different resolutions. Can support LED, LCD, projection lamps and multiple display units at the same time

○ Multiple window

Supports single cards up to 8 windows. Supports zooming, roaming, seamless switching of real-time sources, arbitrary overlay of windows, etc.

○ Easy to set resolution

User-defined output resolution in software

○ Audio Built-in

Audio and video synchronization switching

Support for multitype client control, not only for the PC version client but also mobile version terminal. Supports multiple different types of devices for operation and control , TCP/IP, RS232 control, etc.

○ Input signal preview

The built- in Preview feature allowed. preview all input sources contend and virtual video wall display in software

○ Scrolling Text

Scrolling text can displays subtitles on display Subtitles can be displayed statically or dynamically

☐ **Alarm Remind**

Emergency loss of power protection, state storage memory Monitoring alarm

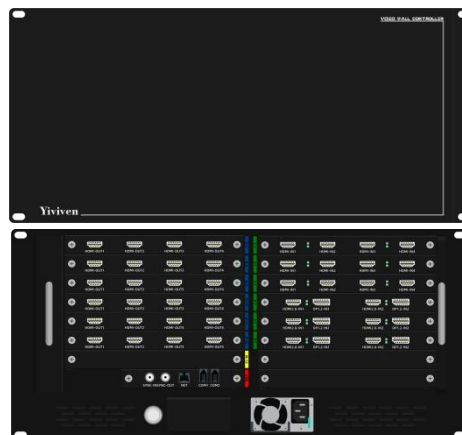
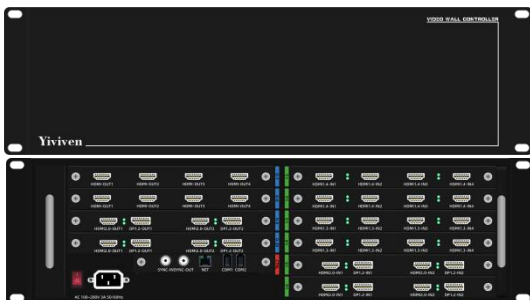
☐ **Power redundancy backup**

☐ **EDID**

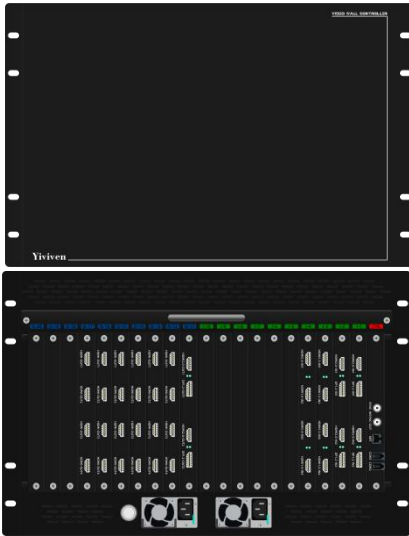
Support EDID management and HDCP function



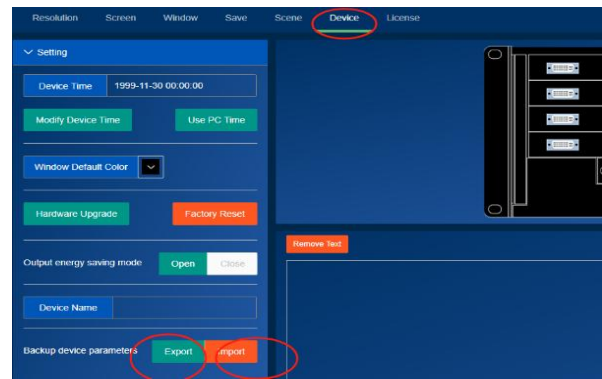
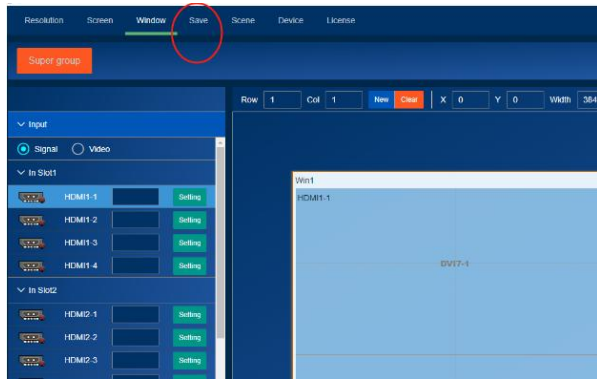
☐ **Product Images**



Product Images

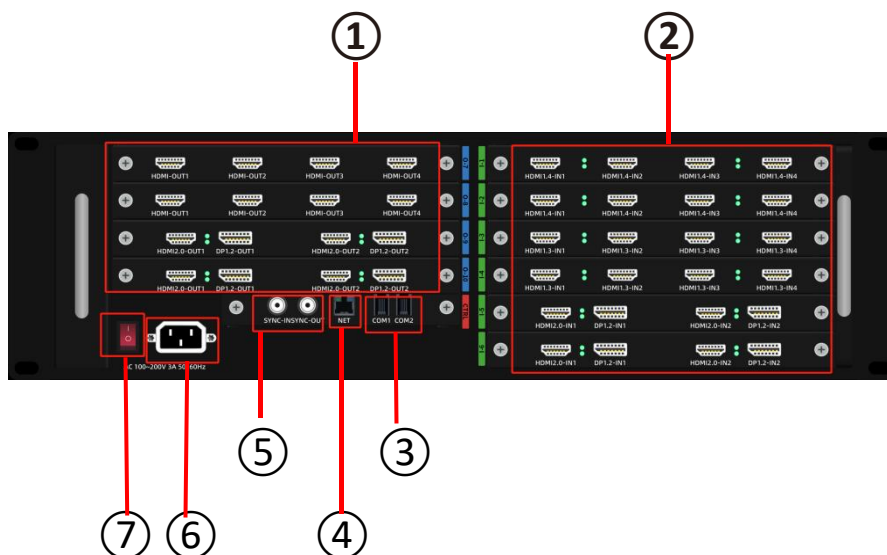


Control Software



BVP1000 video wall controller control software includes PC terminal, the software has "save", "scene", "device", and other functional modules. "save" can save data for the next time use. Click "device" and then click "Input" to back up device parameter. Click "Output" and then restart the software to restore the device parameter.

Exterior Description



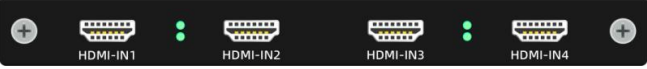
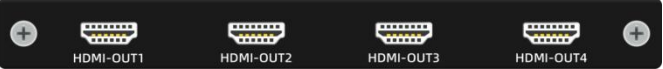
Rear panel (3U chassis)

Exterior Description

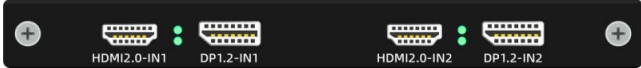
No	Name	Description
①	INPUTS	Signal input port: 1U Chassis, maxim support 8 channel input 2U Chassis ,maxim support 16 input, only support 8 channel input card 3U chassis,support 36 channel input, with 3 slot of 8 input ,3slot of 8 channel input ,3 slot for 4 channel input ,total can support 36 input 5U chassis.Maxim support 24in, if use 8 channel card maxim support 48 input 7U chassis,support 80input, with 20 input slot 15U Chassis, maxim support 160 input, from 1slot –20 slot for input
②	OUTPUTS	Signal output port: 1U Chassis, maxim support 8 channel output 2U Chassis ,maxim support 32output, only support 8 channel output card 3U chassis,support 24 channel output, with 3slot of 8 channel output ,3 slot for 4 channel input ,total can support 36 input ,if slot use 4channel ,that will be support 24 input ,6slot for output , that's total support 24 output 5U chassis.Maxim support 24 output, if use 8 channel card maxim support and 24 out 7U chassis,support 40 output,with 10 output slot 14U Chassis , maxim support 80 output , have 3 slot can support Mirroring function, from 19 slot -21 slot for Mirroring from 22slot -41 slot for output , can support power redundant supply
③	RS232-1 & RS232-2	connected to the RS232 port of the control device.
④	TCP/IP CONTROL	Rj45 port for TCP/IP network port control
⑤	Sync	Data can be synchronized
⑥	Power port	Connection to power supply
⑦	Power changeover switches	The switch is set to 110V or 230V depending on the external voltage

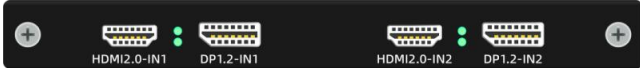


Cards Introduction

 4 channel HDMI 1.3 Input card			 4 channel HDMI 1.3 Output card		
Typical Resolution	Card Parameters		Typical Resolution	Card Parameters	
800×600@60Hz 1024×768@60Hz 1280×720@60Hz 1280×800@60Hz 1280×1024@60Hz 1360×768@60Hz 1366×768@60Hz 1400×1050@60Hz 1440×900@60Hz 1600×1200@60Hz 1680×1050@60Hz 1920×1080@60Hz 1920×1200@60Hz	Exterior interface	HDMI Type A	800×600@60Hz 1024×768@60Hz 1280×720@60Hz 1280×800@60Hz 1280×1024@60Hz 1360×768@60Hz 1366×768@60Hz 1400×1050@60Hz 1440×900@60Hz 1600×1200@60Hz 1680×1050@60Hz 1920×1080@60Hz 1920×1200@60Hz	Exterior interface	HDMI Type A
	signal protocol	HDMI 1.3		signal protocol	HDMI 1.3
	Number of input channels	4		Number of input channels	4
	Maximum pixel bandwidth	165 MHz		Maximum pixel bandwidth	165 MHz
	color depth	32 bit / pixel		color depth	32 bit /pixel
	operating temperature	0 °C~40 °C		operating temperature	0 °C~40 °C
	Storage temperature	-10 °C~60 °C		Storage temperature	-10 °C~60 °C
	Maximum resolution	2048 × 1280		Maximum resolution	3840 × 3840
	Dimension (W×D×H)	195×220×22 (mm)		Dimension (W×D×H)	195×220×22 (mm)
	Weight	0.35KG		Weight	0.35 kg

 4 channel HDMI 1.4 Input card		
Typical Resolution	Card Parameters	
800×600@60Hz 1024×768@60Hz 1280×720@60Hz 1280×800@60Hz 1280×1024@60Hz 1366×768@60Hz 1400×1050@60Hz 1440×900@60Hz 1600×1200@60Hz 1680×1050@60Hz 1920×1080@60Hz 1920×1200@60Hz 2560×1600@60Hz 3840×2160@30Hz 3840×2400@30Hz 4096×2160@30Hz	Exterior interface	HDMI Type A
	signal protocol	HDMI 1.4
	Number of input channels	2
	Maximum pixel bandwidth	297 MHz
	color depth	20 W
	operating temperature	2-way embedded audio
	Storage temperature	32 bit /pixel
	Maximum resolution	0 °C~40 °C
	Weight	0.40KG

 2 channel HDMI2.0 Input card			 2 channel HDMI2.0 Output card		
Typical Resolution	Card Parameters		Typical Resolution	Card Parameters	
3840 x 2160@60 Hz	signal protocol	HDMI 2.0	3840 x 2160@60 Hz	signal protocol	HDMI 2.0
	Number of input channels	2		Number of input channels	2
	Impedance	Zdiff:100 Ω		Impedance	Zdiff:100 Ω
	Maximum resolution	3840x2160		Maximum resolution	3840x2160
	Frame Rate	Max.60 Frame at 4k resolution		Frame Rate	Max.60 Frame at 4k resolution
	Max.Transmission Rate	18.0 Gbps		Max.Transmission Rate	18.0 Gbps
	Operating Temperature	0~50℃(Running) -55~70℃(Store)		Operating Temperature	0~50℃(Running) -55~70℃(Store)
	Humidity	10%~80% (Running) 10%~90% (Store)		Humidity	10%~80% (Running) 10%~90% (Store)
	Dimension (W×D×H)	195×220×22 (mm)		Dimension (W×D×H)	195×220×22 (mm)
	Weight	0.40 kg		Weight	0.40 kg

 2 channel DP1.2 Input card			 2 channel DP1.2 Output card		
Typical Resolution	Card Parameters		Typical Resolution	Card Parameters	
800×600@60Hz 1024×768@60Hz 1280×720@60Hz 1280×800@60Hz 1280×1024@60Hz 1360×768@60Hz 1366×768@60Hz 1400×1050@60Hz 1440×900@60Hz 1600×1200@60Hz 1680×1050@60Hz 1920×1080@60Hz 1920×1200@60Hz 2560x1440@60Hz	signal protocol	DP1.2	800×600@60Hz 1024×768@60Hz 1280×720@60Hz 1280×800@60Hz 1280×1024@60Hz 1360×768@60Hz 1366×768@60Hz 1400×1050@60Hz 1440×900@60Hz 1600×1200@60Hz 1680×1050@60Hz 1920×1080@60Hz 1920×1200@60Hz 2560x1440@60Hz	signal protocol	DP1.2
	Number of input channels	2		Number of input channels	2
	Maximum pixel bandwidth	600MHz		Maximum pixel bandwidth	600MHz
	Color depth	36bit/pixel		Color depth	36bit/pixel
	Operating temperature	0℃~40℃		Operating temperature	0℃~40℃
	Storage temperature	-10℃~60℃		Storage temperature	-10℃~60℃
	Maximum resolution	4096x2160		Maximum resolution	4096x2160

2560x1600@60Hz	Dimension (W×D×H)	195×220×22 (mm)	2560x1600@60Hz	Dimension (W×D×H)	195×220×22 (mm)
3840x2160@60Hz			3840x2160@60Hz		
4096x2160@60Hz	Weight	0.35kg	4096x2160@60Hz	Weight	0.35kg

					
8 channel HDMI1.3 Input card			8 channel HDMI1.3 Output card		
Typical Resolution	Card Parameters		Typical Resolution	Card Parameters	
800×600@60Hz 1024×768@60Hz 1280×720@60Hz 1280×800@60Hz 1280×1024@60Hz 1360×768@60Hz 1366×768@60Hz 1400×1050@60Hz 1440×900@60Hz 1600×1200@60Hz 1680×1050@60Hz 1920×1080@60Hz 1920×1200@60Hz	Exterior interface	HDMI Type A	800×600@60Hz 1024×768@60Hz 1280×720@60Hz 1280×800@60Hz 1280×1024@60Hz 1360×768@60Hz 1366×768@60Hz 1400×1050@60Hz 1440×900@60Hz 1600×1200@60Hz 1680×1050@60Hz 1920×1080@60Hz 1920×1200@60Hz	Exterior interface	HDMI Type A
	signal protocol	HDMI 1.3		signal protocol	HDMI 1.3
	Number of input channels	4		Number of input channels	4
	Maximum pixel bandwidth	165 MHz		Maximum pixel bandwidth	165 MHz
	color depth	32 bit / pixel		color depth	32 bit /pixel
	operating temperature	0 °C~40 °C		operating temperature	0 °C~40 °C
	Storage temperature	-10 °C~60 °C		Storage temperature	-10 °C~60 °C
	Maximum resolution	2048 × 1280		Maximum Resolution	3840 × 3840
	Dimension (W×D×H)	195×220×22 (mm)		Dimension (W×D×H)	195×220×22 (mm)
	Weight	0.35 kg		Weight	0.35 kg

					
4 channel DVI Output card			4 channel DVI Input card		
Typical Resolution	Card Parameters		Typical Resolution	Card Parameters	
800×600@60Hz 1024×768@60Hz 1280×720@60Hz 1280×800@60Hz 1280×1024@60Hz 1366×768@60Hz 1400×1050@60Hz 1440×900@60Hz 1600×1200@60Hz 1680×1050@60Hz	Exterior interface	24+5 pin DVI Receives (DVI-D signals only)	800×600@60Hz 1024×768@60Hz 1280×720@60Hz 1280×800@60Hz 1280×1024@60Hz 1360×768@60Hz 1366×768@60Hz 1400×1050@60Hz 1440×900@60Hz 1600×1200@60Hz	Exterior interface	24+5 pin DVI Receives (DVI-D signals only)
	signal format	DVI 1.0		signal format	DVI 1.0
	Number of input channels	4		Number of input channels	4
	Maximum pixel bandwidth	165 MHz		Maximum pixel bandwidth	165 MHz
	Input resistance	50 Ω		Input resistance	50 Ω

1920×1080@60Hz 1920×1200@60Hz 2560×1600@60Hz 3840×2160@30Hz 3840×2400@30Hz 4096×2160@30Hz	color depth	32 bit / pixel	1680×1050@60Hz 1920×1080@60Hz 1920×1200@60Hz	color depth	32 bit / pixel
	operating temperature	0 °C~40 °C		operating temperature	0 °C~40 °C
	Storage temperature	-10 °C~60 °C		Storage temperature	-10 °C~60 °C
	Maximum resolution	2048 × 1280		Maximum resolution	2048 × 1280
	Dimension (W×D×H) (mm)	195×220×22 (mm)		Dimension (W×D×H) (mm)	195×220×22 (mm)
	Weight	0.40 kg		Weight	0.40 kg

4 channel SDI Input card 		
Typical Resolution	Card Parameters	
720×576@60Hz 1920×1080@60Hz	Exterior interface	BNC
	Input signal	SD-SDI、HD-SDI、3G-SDI
	Number of input channels	4
	Input resistance	75 Ω
	Operating temperature	0 °C~40 °C
	Storage temperature	-10 °C~60 °C
	Dimension (W×D×H)	195×220×22 mm
	Weight	0.40 kg

4 channel VGA Input card 		
Typical Resolution	Card Parameters	
800×600@60Hz 1024×768@60Hz 1280×720@60Hz 1366×768@60Hz 1400×1050@60Hz 1440×900@60Hz 1600×1200@60Hz 1680×1050@60Hz 1920×1080@60Hz 1920×1200@60Hz 2560×1600@60Hz 3840×2160@30Hz	Exterior interface	15-pin D-sub(DB15/DE-15F)
	Input signal	RGBHV
	Number of input channels	4
	power	21 W
	Input resistance	75 Ω
	Color depth	32bit/pixel
	operating temperature	0 °C~40 °C
	Storage temperature	-10 °C~60 °C

3840×2400@30Hz	Dimension (W×D×H)	195×220×22 mm
4096×2160@30Hz	Weight	0.40 kg

Specification

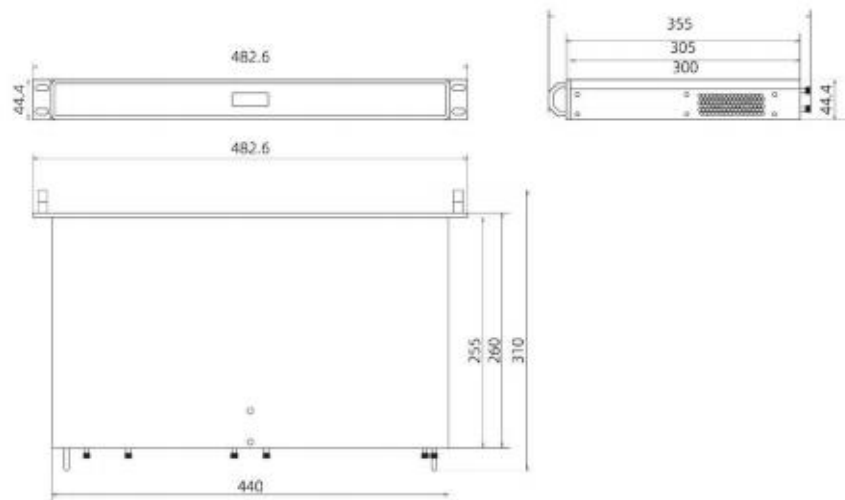
Product Model	BVP-1000
Chassis	1U. 2U. 3U. 5U. 7U. 14U
Input Resolution	1920x1200@60Hz,HDMI Type A, 3840x2160@60
Output Resolution	1920x1200@60Hz,HDMI Type A, 840x2160@60
Color space	4:4:4 RGB
Color Depth	24-bit
Scale	4x4 , 4x8, 8x8, any scale
Power	110~240V
Operation Temperate	-20 °C to 50 °C
Control Way	RJ45 ,RS232, Button control with front Panel
Operation Humidity	10% to 85%, No-Condensing
MTBF	100,000hrs
Hardware construction	Yes

Input	
Signal	Signal parameter
DVI	Only support VESA Standard DVI-D digital signal, Support EDID
HDMI	EIA/CEA-861 Standard HDMI1.3 Standard ,Support 1920x1080@60Hz
HDMI2.0	HDMI2.0Standard, Support3840x2160@60Hz, Support EDID
DP1.2	DP1.2Standard,Support 3840x2160@60Hz ,Support EDID

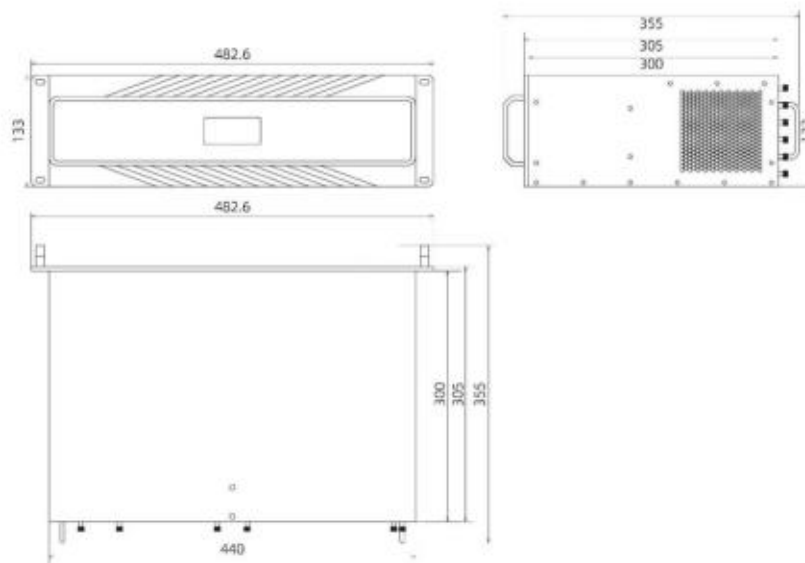
Output	
Signal	Signal parameter
DVI	1920x1080,DVI-D digital Support EDID customization
HDMI	1920x1080,HDMI1.3Standard

Chassis				
Size	1U	3U	7U	14U
Dimension(mm)	482.6 x 255 x 44.4	482.6 x 355 x 133	482.6x 316 x 310	482.6x438.8x621
Weight	3.6Kg	7.8Kg	15Kg	25.4Kg
Supply Voltage	110~240V			
Power Supply Frequency	50~60 Hz			
Power	52W	149.4W	550W	550W
Fans	With fans for cooling			
Operation Temperature	0~50°C			

● Chassis Size

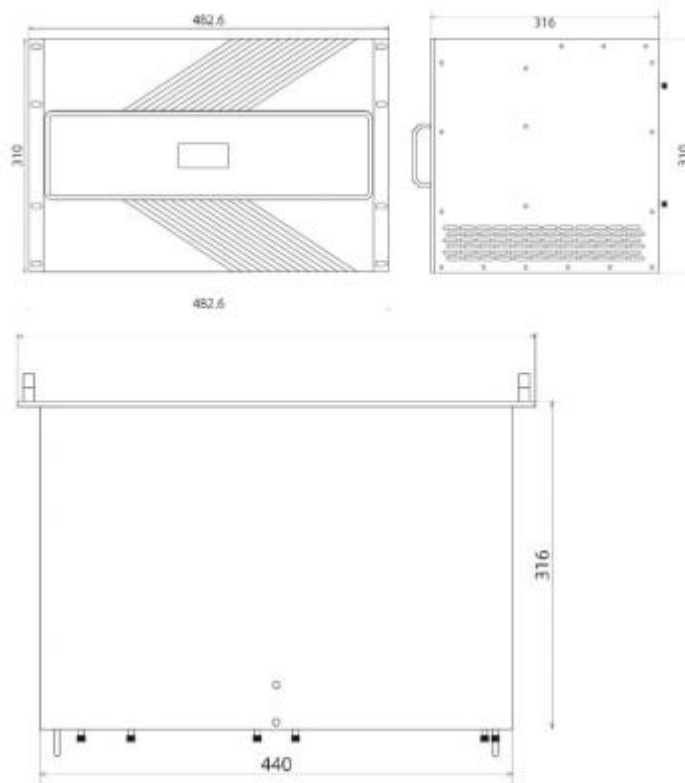


BVP1000-1U

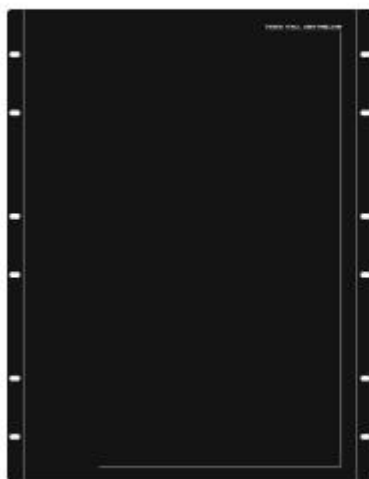


BVP1000-3U

Chassis Size

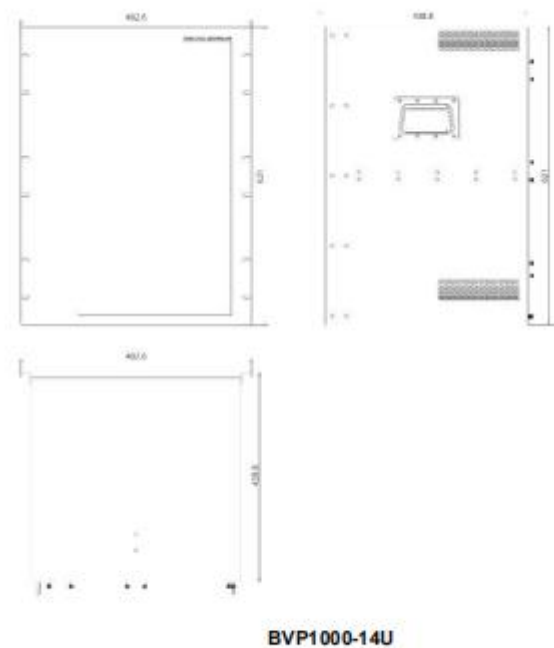


BVP1000-7U



BVP 1000-14U Picture

● Chassis Size



● Product Diagram

