



VIDEO PROCESSOR T WV16S

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APPEARANCE

Model: TWV16S



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INTRODUCTION

- TWV16S is the latest All-in-One product launched by TWT, integrating video processing configuration, video control, LED display, diverse video signal reception, and ultra-high resolution full 4K × 2K @ 60Hz. It has image processing capabilities and signal transmission/broadcasting capabilities.
- TWV16S can send processed video to the LED display through network ports and fiber optic ports. TWV16S uses an industrial-grade enclosure, offering powerful video processing and transmission capabilities and can adapt to complex operating environments. It is widely used in many large-scale fixed installations such as government, enterprises, organizations, and military command centers

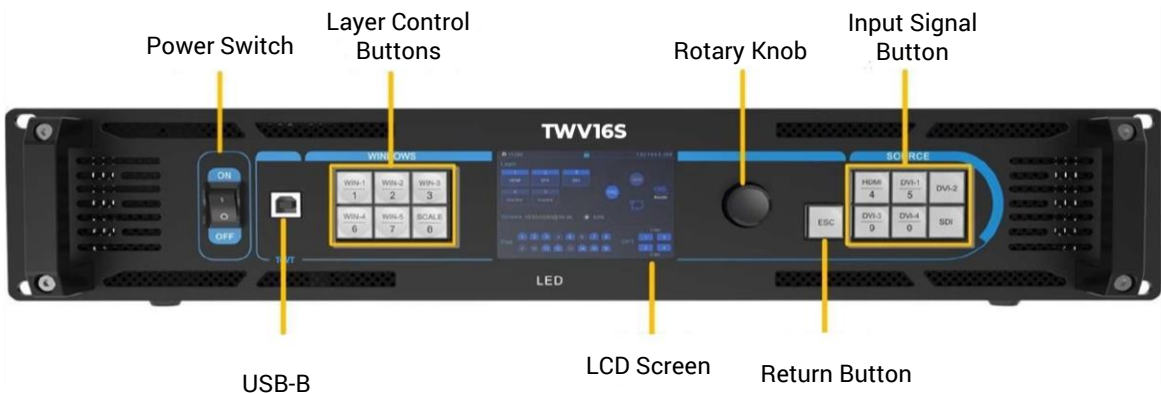
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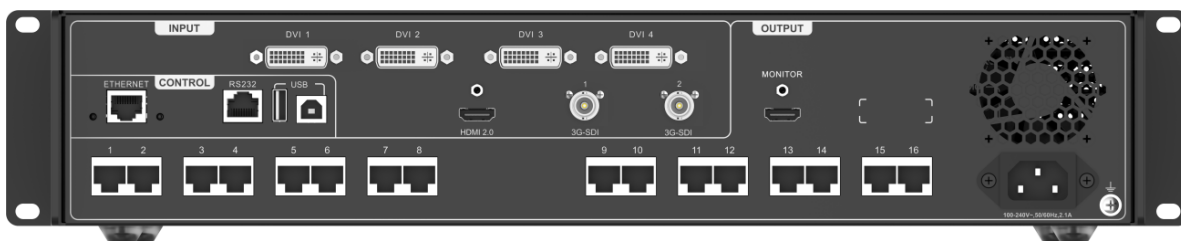
FEATURES

- Complete video input interface: 1 HDMI 2.0, 4 DVI, 1 3G-SDI
- Multiple outputs, high load: Supports 16-channel network ports and 4-channel optical fiber output, with up to 10.4 million pixels capacity.
- HDR output support: Significantly enhances display quality for more realistic and vibrant colors with clearer details.
- Supports personalized image quality zoom with three modes: point-to-point, full screen, and custom zoom.
- Multi-window display support with flexible layout for up to 5 windows.
- Preview output display support through HDMI.
- TWT intelligent control software for operational control.
- Scene preset support: Up to 10 user-created scenes can be saved as templates for direct recall.
- EDID management support: Allows user-defined and preset EDID management.

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FRONT PANEL





INPUT INTERFACE

Interface	Quantity	Description
DVI	4	<ul style="list-style-type: none"> Single-link DVI input; each channel supports up to 1920 × 1200 @ 60Hz. Custom resolution supported (max width: 2048, max height: 2048).
HDMI 2.0	1	<ul style="list-style-type: none"> Maximum input resolution of 3840×2160 @ 60Hz. Custom resolution support (width limit: 8192, height limit: 8192). Supports HDCP 1.4 and EDID 1.4. Does not support interlaced signal input.
3G-SDI	1	<ul style="list-style-type: none"> 1×3 G-SDI input, maximum resolution of 1920×1080 @ 60Hz. Does not support input resolution configuration. Supports interlaced signal input with deinterlacing processing.

OUTPUT INTERFACE

LAN port	16	<ul style="list-style-type: none"> 16 Gigabit LAN outputs with a maximum load of 10.4 million pixels. Resolution limit: width 16384, height 8192. Maximum load per network port: <ul style="list-style-type: none"> For 8-bit input: 650,000 pixels For 10-bit/12-bit input: 320,000 pixels Audio output not supported.
OPT1~4	4	<ul style="list-style-type: none"> Four 10G optical fiber output channels. OPT1 transmits data from network ports 1–8. OPT2 transmits data from network ports 9–16. OPT3 serves as a copy channel for OPT1 or ports 1–8. OPT4 serves as a copy channel for OPT2 or ports 9–16.
Display	1	HDMI interface for preview output, supports 1920 × 1080 @ 60Hz resolution.

CONTROL INTERFACE

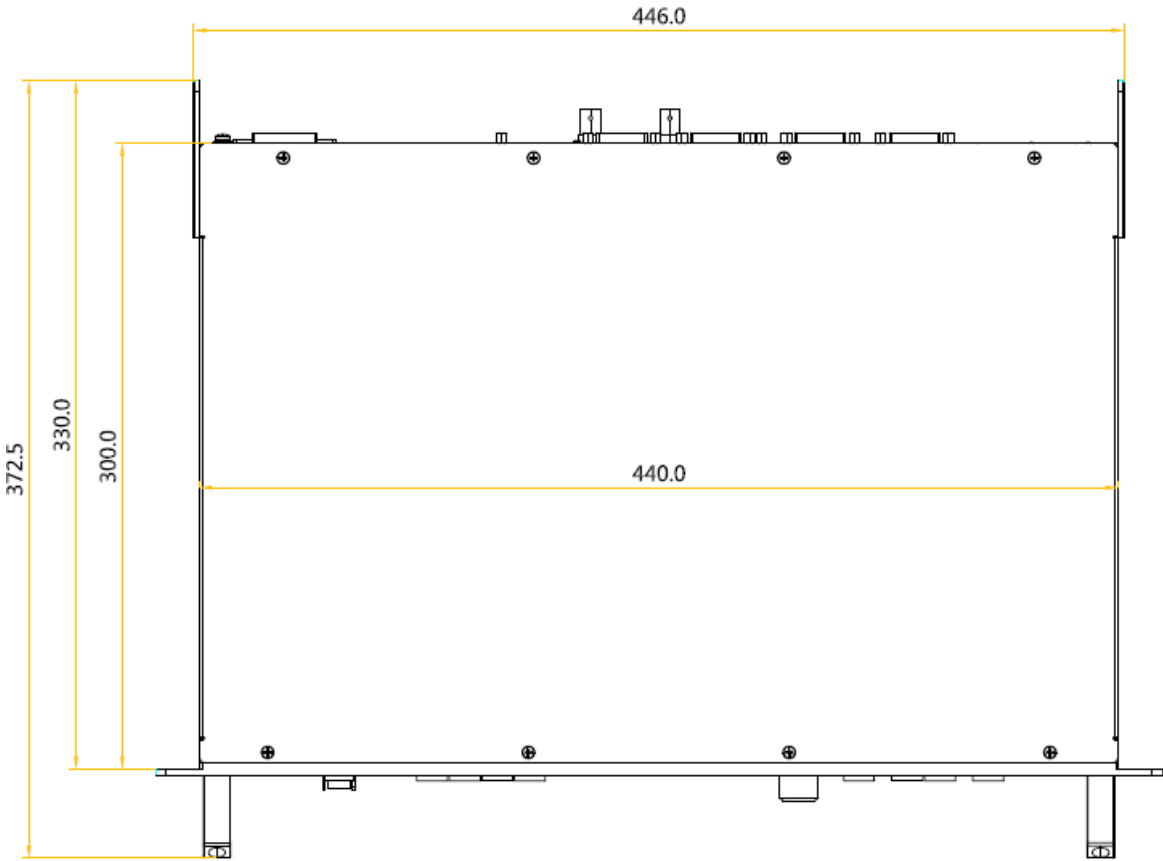
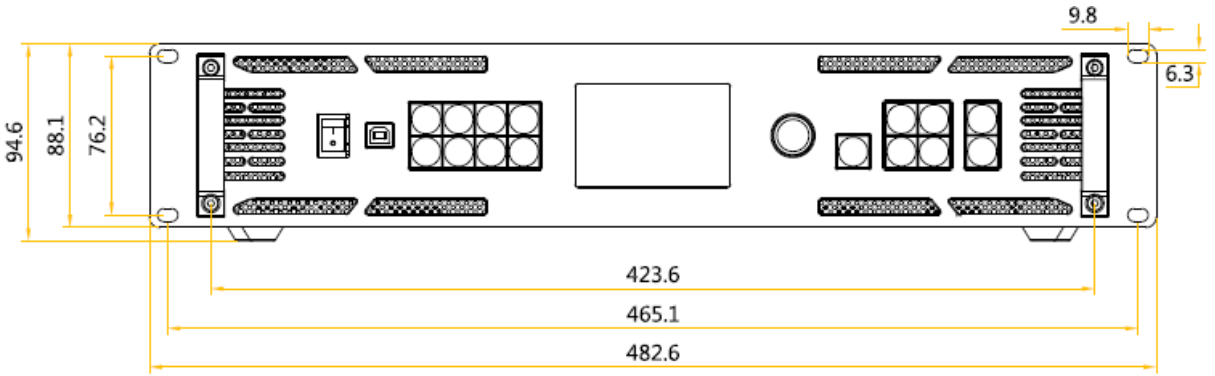
ETHERNET	1	Connects to PC interface (for debugging only).
USB	1	<ul style="list-style-type: none"> USB 2.0 (Type B): Connects to PC, debugging device, and device input for cascading. USB 2.0 (Type A): Device output for cascading.
RS232	1	Connects to central control device.
Power Interface		AC100V ~240 V 50/60Hz
Power Consumption		50W
Operating Temperature		0°C~50°C

REMOTE CONTROL DEVICE FOR LED DISPLAY SCHEDULING

CPU	Quad-Core ARM Cortex A53
GPU	Mali G31 MP2
FLASH	EMMC 4GB
SDRAM	2GB
OS	Android 9
Decoder Support	H265 Main10@L5.1, up to 4K@60fps or 6K@30fps
USB	1 Type-A USB 3.1 Gen1 1 High-speed USB 2.0
DisplayPort	HDMI port and Type-C port, supports dual screens
Card Reader	Micro SD cards, up to 64GB (not included)
High Definition Video Output	4K (4096x2160 pixels)
LAN/ Ethernet	10/100/1000M standard RJ-45
Wireless	2.4G/5G dual-band Wi-Fi, IEEE 802.11 a/b/g/n/ac
Bluetooth	V4.1
Audio Support	MP3, AAC, WMA, FLAC, Ogg.
Image Support	HD JPEG, BMP, GIF, PNG, TIF
Mouse/Keyboard Support	USB mouse and keyboard; 2.4GHz wireless mouse and keyboard via USB dongle
HDMI	HDMI 2.0a for 4K @ 60Hz
4G Chip	ZXIC 7520V3
Wi-Fi Chip	Realtek 8189
LAN Chip	IC+ IP101
Power Interface	AC100V ~240 V 50/60Hz
Power Consumption	50W
Operating Temperature	0°C~50°C

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DIMENSIONS



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