AET LED DISPLAYS INDIA PVT LTD

SPECIFICATIONS

INC25-2U

* Pictures are for reference only, please subject to actual product

AET LED DISPLAYS INDIA PVT. LTD.

2nd floor, Beta Block SSPDL - “ALPHA CITY”, OMR Navalur, Chennai, TamilNadu - 603103.

For more information about Aet Led Displays, visit at www.aetdisplays.in/ or sales@aetdisplays.com

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The 2U is AET' s newest generation of video wall splicer, featuring excellent image quality and designed especially for fine-pitch LED screens. The 2U can work as splicing processors that integrate both video processing and video control capabilities, or work as pure splicing processors. The whole unit adopts a modular and plug-in design, and allows for flexible configuration and hot swapping of input and output cards. Thanks to excellent features and stable performance, the 2U can be widely used in a variety of applications, such as energy and power, judicial departments and prisons, military command, water conservancy and hydrology, meteorologic earthquake predition, enterprise management, metallurgy of steel, banking and finance, national defense, public security traffic management, exhibitions and presentations, production scheduling, radio and television, educational and scientific

Based on the powerful hardware FPGA system architecture, with a modular and plug-in design, the 2U features a stable and highly efficient pure hardware architecture, and provides a variety of connector modules for flexible and personalized configuration, allowing for easy maintenance and low failure rate. The2U provides the industry-standard input connectors, including HDMI, DVI, DP, VGA, CVBS, SDI and IP, and supports 10-bit video source input and processing, as well as 4K high-definition inputs and outputs. The 2U also provides three kinds of LED 4K sending cards, allowing for the backup between the OPT ports and Ethernet ports as well as ultra-long distance transmission. Moreover, the 2U supports multi-screen and multi-layer management, input and output EDID management and monitoring, input source renaming, BKG and OSD settings and more, bringing you a rich image construction expeence.

In addition, the U2 adopts the B/S architecture and supports cross-platform, cross-system access and control without the need to install an application program. On a Windows, Mac, iOS, Android or Linux platform, online collaboration of multiple users is supported and the Web page response speed is very fast, which greatly improves on-site setup efficiency. What' s more, the 2U supports online firmware update, allowing for easy hardware update on a PC.

FEATURES

Modular and plug-in design, free combination at your will

* Three kinds of LED 4K sending cards
  - H_20xRJ45 sending card loads up to 13,000,000 pixels.
  - H_16xRJ45+2xfiber sending card loads up to 10,400,000 pixels and provides two OPT ports that copy the outputs on Ethernet ports.
  - H_4xfiber sending card loads up to 20,800,000 pixels and supports three working modes, including independent, copy and backup.
  - The three cards mentioned above cannot be used together to load the same screen

* Multi-capacity configuration on a single card slot
  - 4x 2K×1K@60Hz
  - 2x 4K×1K@60Hz
  - 1x 4K×2K@60Hz

* Simple screen configuration using a single card

* Online status monitoring of all input and output cards

* Hot-swappable input and output cards

* H_2xRJ45 IP input card supports up to 512 IP camera inputs and input mosaic

* Auto decryption of HDCP-encrypted sources

* Decimal frame rates supported
* HDR10 and HLG processing

Multi-screen management for centralized control

* Each screen can have its own output resolution.
* Output mosaic
  Adopts the frame synchronization technology, which ensures all the output connectors output the image synchronously, and the image is 2U Video Wall Splicer Specifications complete and played smoothly, without any stuck, frame loss, tearing or piecing.
* Irregular screen configuration Supports irregular rectangle mosaic without any limitations.
* Input source grouping management
* Eye saver mode
  Display the image in a warmer but less bright way to relieve eye strain.
* LCD bezel compensation

DivMulti-layer displaylities for flexible configuration

* LCD bezel compensation
  A single card supports 16x 2K layers, 8x DL layers or 4x 4K layers.
  All layers support cross-connector output and the layer quantity is not reduced for crossconnector output.
* High-definition scrolling text
  Customize the scrolling text content, such as slogans or notification messages, and set the text style, scrolling direction and speed.
* Up to 2,000 presets
  Fade effect and seamless switching supported, less than 60ms preset switching duration
* Scheduled playback of preset playlist
  Set whether to add the presets to playlist, which is ideal for monitoring, exhibitions, presentations, and other applications
* OSD settings on a single screen and adjustable OSD transparency
* BKG settings
  BKG images do not occupy the layer resources.
  The max. width and height of a BKG image is up to 15K and 8K respectively
* Channel logo management
  Set a text or image logo for identifying the input source.
* Input source cropping and renaming after cropping
  Crop any input source image and form a new input source after cropping.
* HDR and 10-bit video processing, allowing for aImore exquisite and clear image
* Color adjustment
  Output connector color and screen color adjustable, including the brightness, contrast, saturation, hue and Gamma

* XR scenario control
* 3D function

  Work with NovaStar' s 3D emitter – EMT200 to enjoy the 3D visual effect
* Low latency

  Reduce the latency from the input source to the receiving card to as low as 1 frame

Web-page control, easy, friendly and convenient

* Web control

  Real-time response and 1000M/100M selfadaptive network control, allowing for multi-user collaboration
* Monitoring of inputs and outputs on Web page
* Firmware update on Web page
* Ark Visualized Management and Control Platform app control on pad device

Status monitoring for better stability and reliability

* Self-test for fault detection
* Auto monitoring and alarms

  Supports hardware monitoring, such as fan rotation speed, module temperature and voltage, running status, and sends fault alarms if necessary.
* Backup design

  – Backup between devices

  – Backup between LED 4K sending cards

Appearance

*The picture shown is for illustration purpose only. Actual product may vary due to product enhancement

Notes:

* This product can only be placed horizontally. Do not mount vertically or upside-down.
* The product can be mounted in a standard 19-inch rack capable of withstanding at least four time the total weight of the mounted equipment. Four M5 screws should be used to fix the product.

*** Product information is subject to change without prior notice.**

LCD screen	Displays the device status and monitoring information.

Rear Panel

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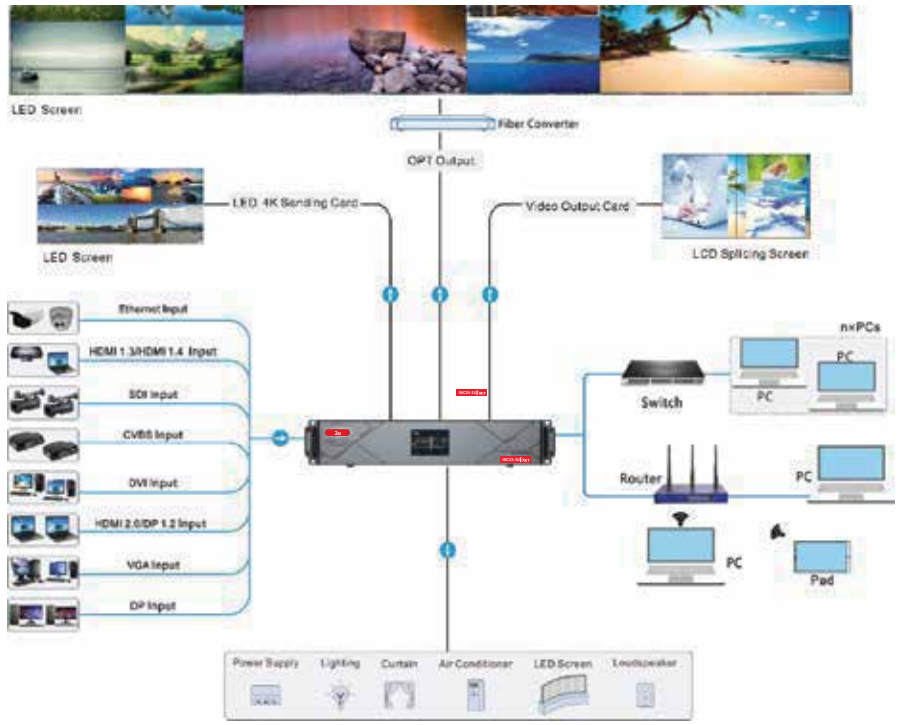
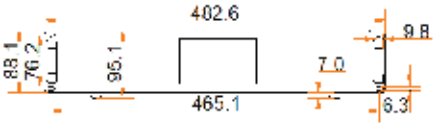
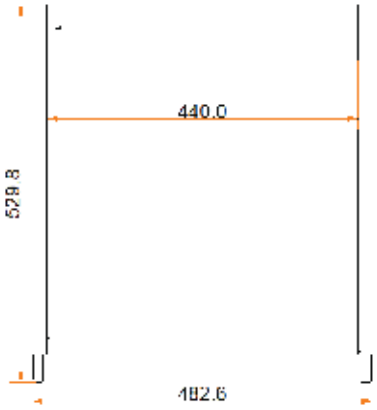


Dimensions





Tolerance: ±0.3 Unit: mm

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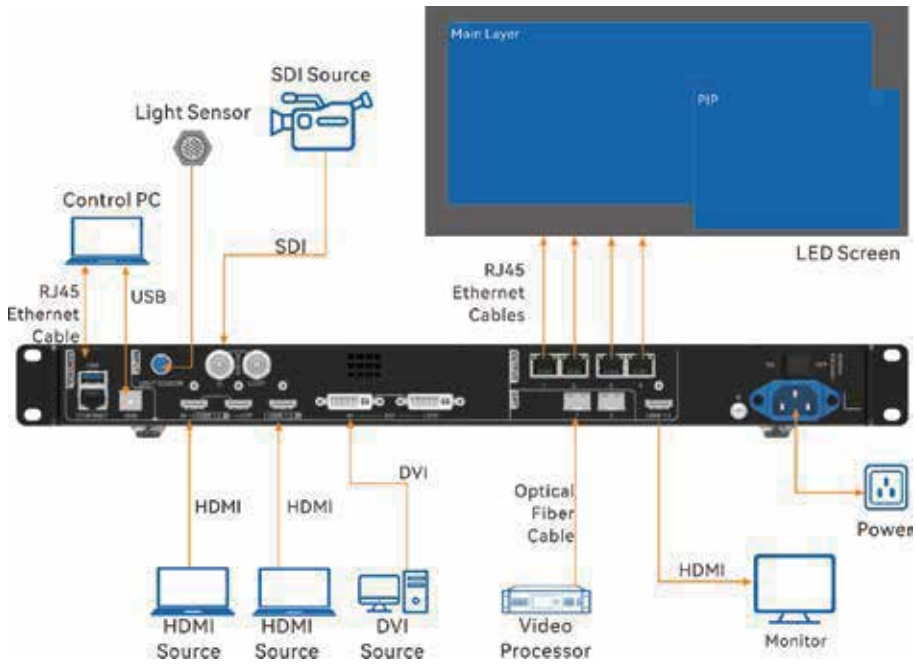
Optical Fiber Ports		
Connector	Qty	Description
OPT	2	* OPT 1: Self-adaptive, either for video input or for output – When the device is connected with a fiber converter, the port is used as an output connector. – When the device is connected with a Pixelhue video processor, the port is used as an input connector. – Max. capacity: 1x 4K×1K@60Hz or 2x 2K×1K@60Hz video inputs * OPT 2: For output only, with copy and backup modes OPT 2 copies or backs up the output on 4 Ethernet ports.
Control Connectors		
Connector	Qty	Description
ETHERNET	1	Connect to the control PC or router. Status LEDs: The top left one indicates the connection status. – On: The port is well connected. – Flashing: The port is not well connected, such as loose connection. – Off: The port is not connected. The top right one indicates the communication status. – On: The Ethernet cable is short-circuited. – Flashing: The communication is good and data is being transmitted. – Off: No data transmission
LIGHT SENSOR	1	Connect to a light sensor to collect the ambient brightness, allowing for automatic screen brightness adjustment
USB	2	*USB (Type-B): – Connect to the control PC. – Input connector for device cascading *USB (Type-A): Output connector for device cascading

Note:

Only the main layer can use the mosaic source. When the main layer uses the mosaic source, the PIP layer cannot be opened.

Applications



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Specifications

Model		2U
Max. Input Cards		4
Max. Input Channels		16
Max. Output Cards		2
Max. Output Channels		8
Max. Loading Capacity	H_16xRJ45+2xfiber sendingcard	20.8 million pixels
	H_20xRJ45+2xfiber sendingcard	26 million pixels
	H_4xfiber sending card	41.6 million pixels
Max. Layers		32
Electrical Specifications	Power connector	100–240V~, 50/60Hz, 4.0A
	Power consumption	210 W
Operating Environment	Temperature	0°C to 45°C
	Humidity	0% RH to 80% RH, non-condensing
Storage Environment	Temperature	-10°C to +60°C
	Humidity	0% RH to 95% RH, non-condensing
Physical Specifications	Dimensions	482.6 mm × 529.8 mm × 88.1 mm
	Net weight	11 kg (chassis)
	Gross weight	12.2 kg (chassis)
Noise Level (typical at 25°C /77°F)		＜45 dB (A)
Packing Information	Packagin Box	660 mm × 570 mm × 210 mm
	Accessories	1x Power cord 1x RJ45 Ethernet cable 1x Grounding cable 1x HDMI cable 1x Quick Start Guide 1x Certificate of Approval 1x Safety Manual 1x Custom Letter

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