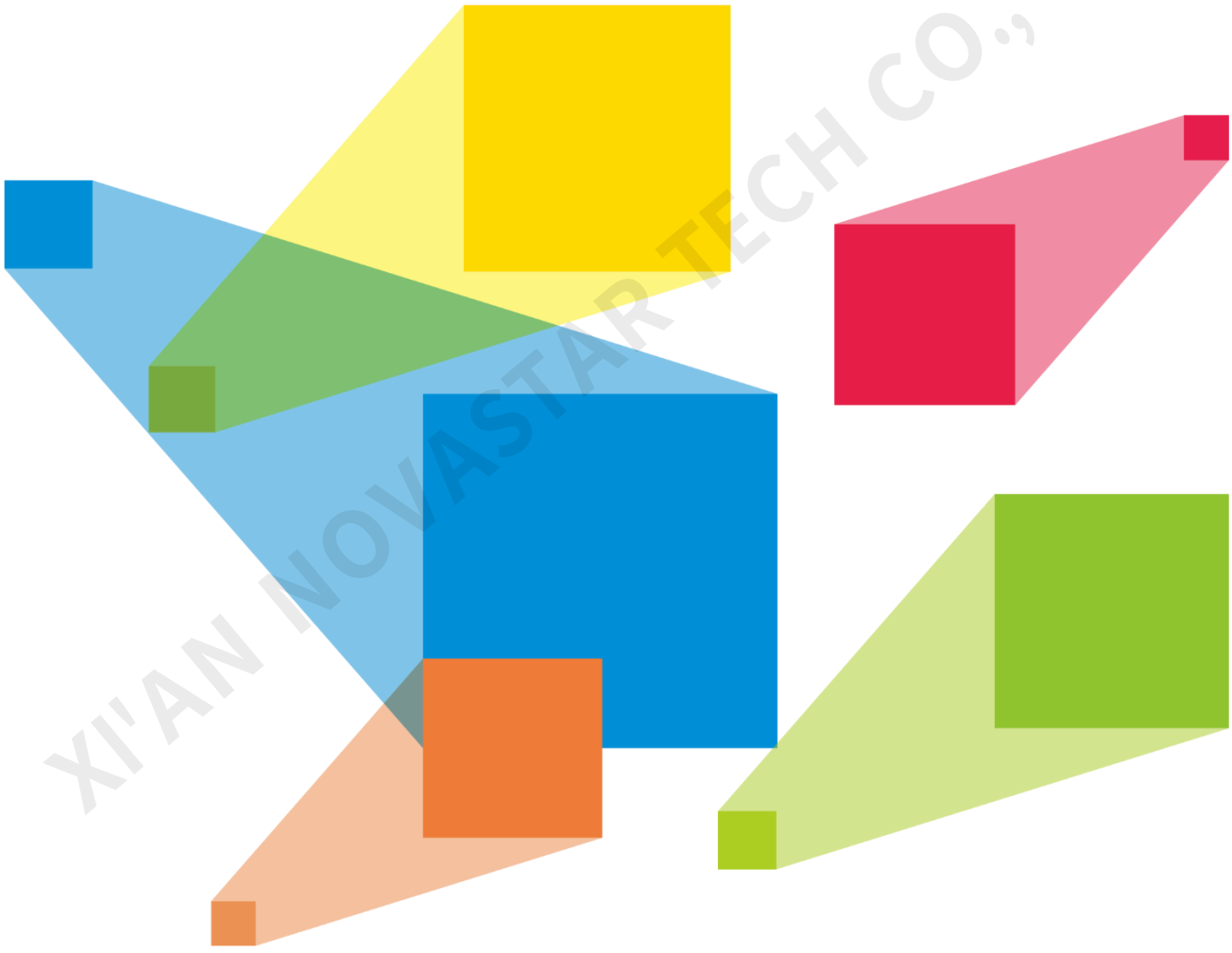
ET2000-G

Media Server



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Specifications

Change History

Release Version	Release Date	Description
V1.0.0	2022-06-07	First release

Introduction

The ET2000-G is a new media server developed by NovaStar, which is specifically designed for multimedia exhibition halls, banquet halls and other small and medium fixed installation scenarios. The ET2000-G provides an excellent pixel-to-pixel display with ultra-high definition, diversified mosaic creativity and outstanding media arrangements for professional stage performances. Built-in with intuitive and user-friendly media playback and control software, the ET2000-G enables simplified stage display management and best-in-class human-machine interaction.

Certifications

None

If the product does not have the relevant certifications required by the countries or regions where it is to be sold, please contact NovaStar to confirm or address the problem. Otherwise, the customer shall be responsible for the legal risks caused or NovaStar has the right to claim compensation.

Features

- A single unit supports up to 8K×2K output capacity, ultra-high-resolution video decoding and pixel-to-pixel display
- Up to 3x Mini DP 1.2 mosaic outputs
- Playback of up to 3 layers and 1 audio simultaneously
- Visualized program arrangement and management
- Live and pre-edit modes
  - The program editing and playback are in sync in live mode
  - Edit the programs first before displaying them on the screen in pre-edit mode
- Media library management, including videos, pictures, PowerPoint files and audios
- Media file sorting
- Media file batch import
- NDI sources, website sources and streaming media sources supported
- Media collection configurations
- Up to 1080p PowerPoint files supported
- Using a laser pointer for moving between slides in PowerPoint
- Playback progress management
- Program auto jump
- Configurable layer size and priority
- Main KV jumping settings
- Main media based playback progress management
- Crossfade on program switching
- Layer mask, cropping, keying, blurring and opacity adjustment
- Hardware decoding supported
- One-click FTB
- Auto startup of built-in software on system power on, auto program playback on software startup
- App control supported, enabling a highly efficient and user-friendly control experience

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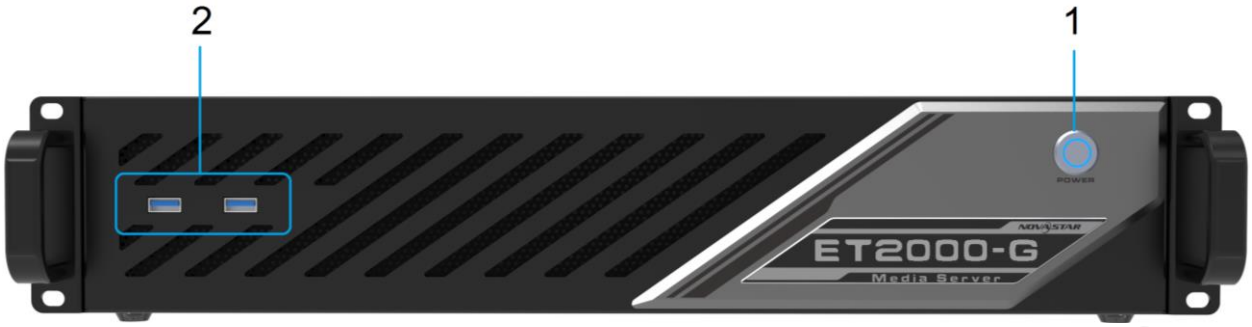
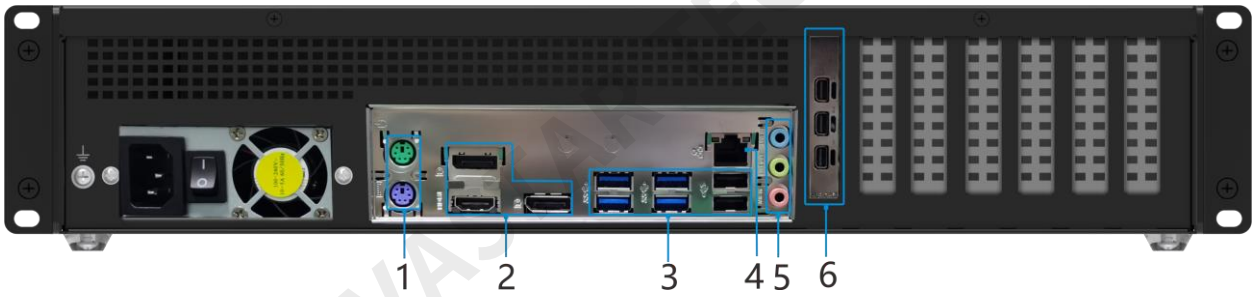
Appearance

Front Panel



No.	Area	Description
1	Power button	Power on or power off the device.
2	USB ports	2x USB3.0 • Connect to a mouse and keyboard. • Insert a USB drive for importing media files.

Rear Panel



No.	Area	Qty.	Description
1	PS/2	2	Connect to the mouse and keyboard.
2	HDMI 2.0 DP 1.2	2	Integrated graphics card output via 1x DP1.2 + 1x DP1.2 /HDMI 2.0 • Connect to a monitor for displaying the software interface. • Max. output resolution: 4096×2304@60Hz
3	USB ports	6	Connect to a mouse and keyboard, or insert a USB drive. • 2x Type-A USB 2.0 • 4x Type-A USB 3.0
4	Ethernet port	1	1x RJ45 connector for Ethernet networking
5	Audio connectors	3	• 1x MIC IN: 3.5 mm microphone input connector • 1x Line IN: 3.5 mm external audio input connector • 1x Line OUT: 3.5 mm audio output connector
6	Graphics card (T400)	1	3x Mini DP 1.2 • Single connector resolution: Up to 4096×2160@60Hz • Three connector mosaic output:

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			– The mosaic width or height can be up to 16384 pixels. – The loading capacity can be up to 8192×2160@60Hz. • Single connector width: 480–8192 pixels • Single connector height: 300–8192 pixels • Playback of 1 layer of 8K×2K@60Hz (hardware-decoding) or 2 layers of 4K×2K@60Hz SDR video • Memory: 2 GB • Type: GDDR6 • Bit width: 64 bit **Notes** • The graphics card does not support irregular mosaic layouts. The mosaic layout must be 1×2, 1×3, 2×1 or 3×1. • The output resolutions of the graphics card connectors that are used for mosaic must be the same.
Hardware/Software Performance			
Power supply	400W ATX		
CPU	11th Generation Intel® Core™ Processor (I5_11400)		
Memory	2x 8GB DDR4		
Mainboard	ASUS B560M-C		
Storage	Samsung M.2 SSD 250GB (Samsung SSD 980)		
Keyboard & Mouse	Keyboard and mouse suit (Logitech)		
OS	Windwos 10 IoT Enterprise		
Playback and control software	Kompass FX2 and its dongle		

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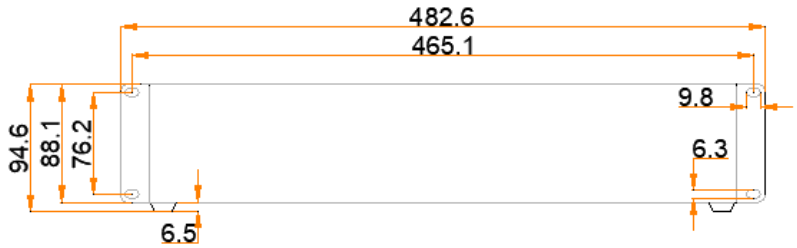
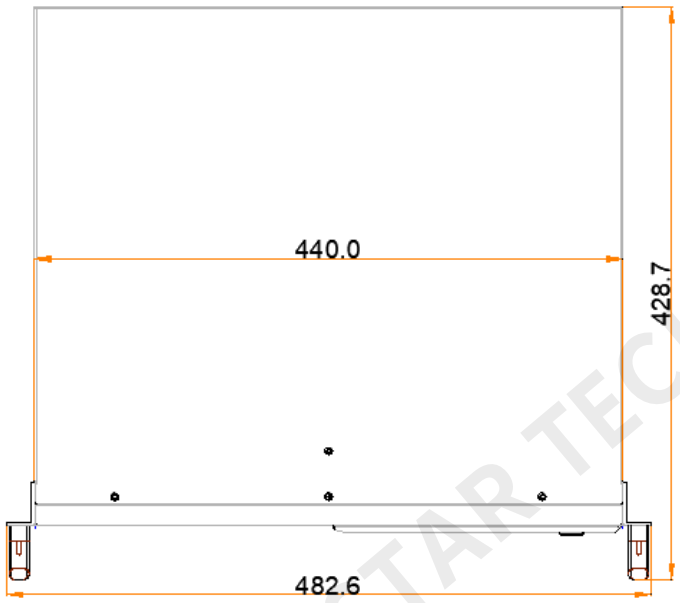
Dimensions





Tolerance: ±0.3 Unit: mm

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Applications

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 times the total weight of the mounted equipment. Four M5 screws should be used to fix the product.

Specifications

Electrical Specifications	Power connector	100–240VAC 47–63Hz
	Power consumption	400 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 × 94.6 mm × 428.7 mm
	Net weight	7.8 kg
Packing Information	Packing box	595 mm × 215 mm × 575 mm
	Accessories	3x Power cables 1x HDMI cable 2x Mini DP to HDMI cables 1x Keyboard and mouse suit 1x Quick Start Guide 1x Safety Manual 1x Certificate of Approval

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Media File Types and Formats

The ET2000-G supports the decoding of various common video coding formats, such as H.264, H.265, MPGE-4/2 and WMV.

Type	Format
Video	mp4, avi, mkv, flv, mov, wmv, mpeg, mpg
Picture	jpg, jpeg, bmp, png, gif, ico
Audio	mp3, aac, flac, amr, ape, wav, wma
Office files	PowerPoint files (1080p)

Note

Recommended video coding formats:

- 4K < resolutions ≤ 8K, width ≤ 8192 pixels and height ≤ 4320 pixels: H.265 (HEVC) or VP9 recommended
- Resolutions ≤ 4K: H.264 (AVC) recommended

For a better image quality experience, the following video bitrates are recommended.

Recommended video bitrates for SDR uploads:

Type	Video Bitrate Standard Frame Rate (24Hz, 25Hz, 30Hz)	Video Bitrate High Frame Rate (48Hz, 50Hz, 60Hz)
4320 (8K)	75 to 90 Mbps	110 to 135 Mbps
2160p (4K)	35 to 45 Mbps	53 to 68 Mbps
1440p (2K)	16 Mbps	24 Mbps
1080p	8 Mbps	12 Mbps

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