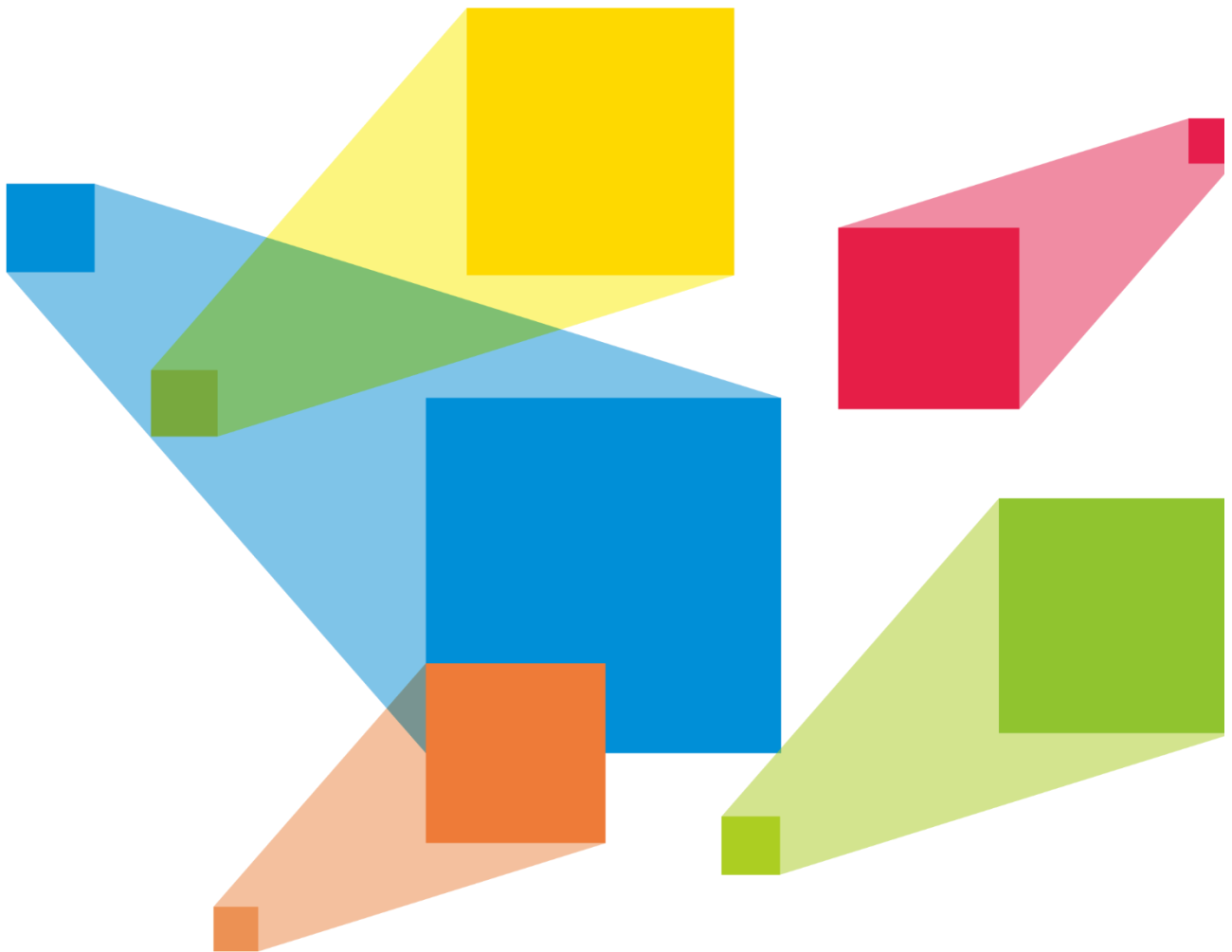


ET2S-G

Media Server



Specifications

Change History

Release Version	Release Date	Description
V1.1.1	2024-12-09	Updated the output connector specifications.
V1.1.0	2024-09-23	Changed the disk specifications.
V1.0.0	2022-01-14	First release

Introduction

The ET2S-G is a new multimedia control system developed by NovaStar, which is specifically designed for multimedia exhibition halls, banquet halls and other small and medium fixed installation scenarios. The ET2S-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 ET2S-G enables simplified stage display management and best-in-class human-machine interaction.

Certifications

CE, FCC, IC, CB, KC, RoHS

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 8Kx2K output capacity, ultra-high-resolution video decoding and pixel-to-pixel display
- Support splitting, merging, and rotating multiple outputs to enable creative mosaic displays on irregular screens
- A single output can be split into up to 64 partitions, allowing for quick mapping settings and ultra-wide screen configuration
- Up to 1x DP 1.2 and 2x HDMI 2.0 mosaic outputs
- Playback of up to 8 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, streaming media sources and text 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
- Audio properties are inherited within the same layer of a program, maintaining audio consistency when media is replaced
- Automatic saving during project file editing
- Hardware decoding supported
- One-click FTB
- Auto startup of built-in software on system power on, auto program playback on software startup
- Control software VICP (Visual Intelligent Control Platform), enabling a highly efficient and user-friendly control experience

Appearance

Front Panel



No.	Area	Description
1	Power button	Power on or power off the device.
2	USB ports	2x USB3.0 <ul style="list-style-type: none"> • Connect to a mouse and keyboard. • Insert a USB drive for importing media files.

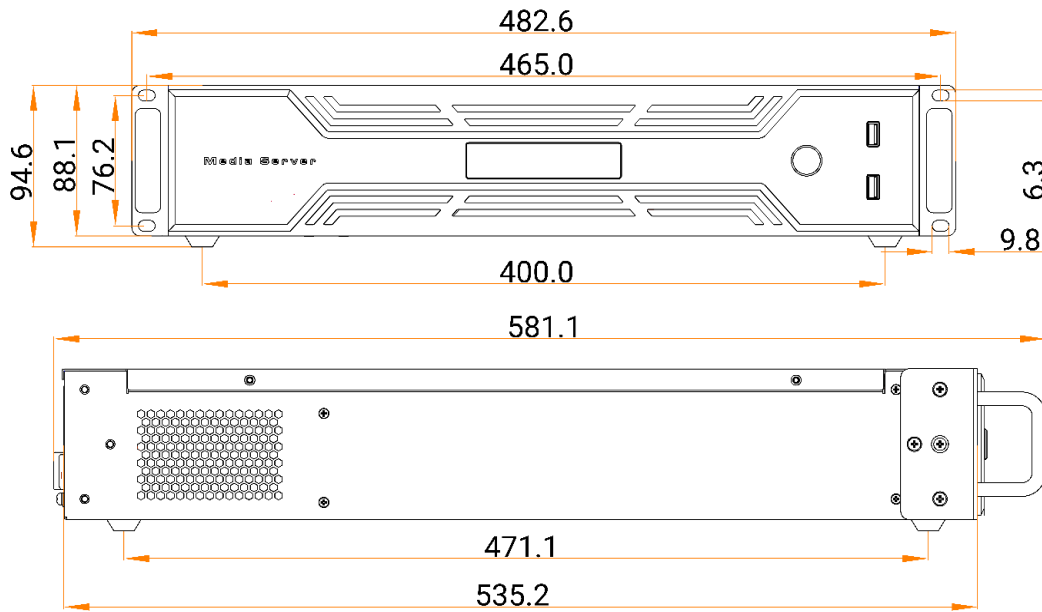
Rear Panel



No.	Area	Description
1	Power switch	<ul style="list-style-type: none"> • ON: Power up the device • OFF: Power off the device
2	Power connector	Specifications: 100–240V~, 50/60Hz
3	CONTROL	<ul style="list-style-type: none"> • 1x RJ45

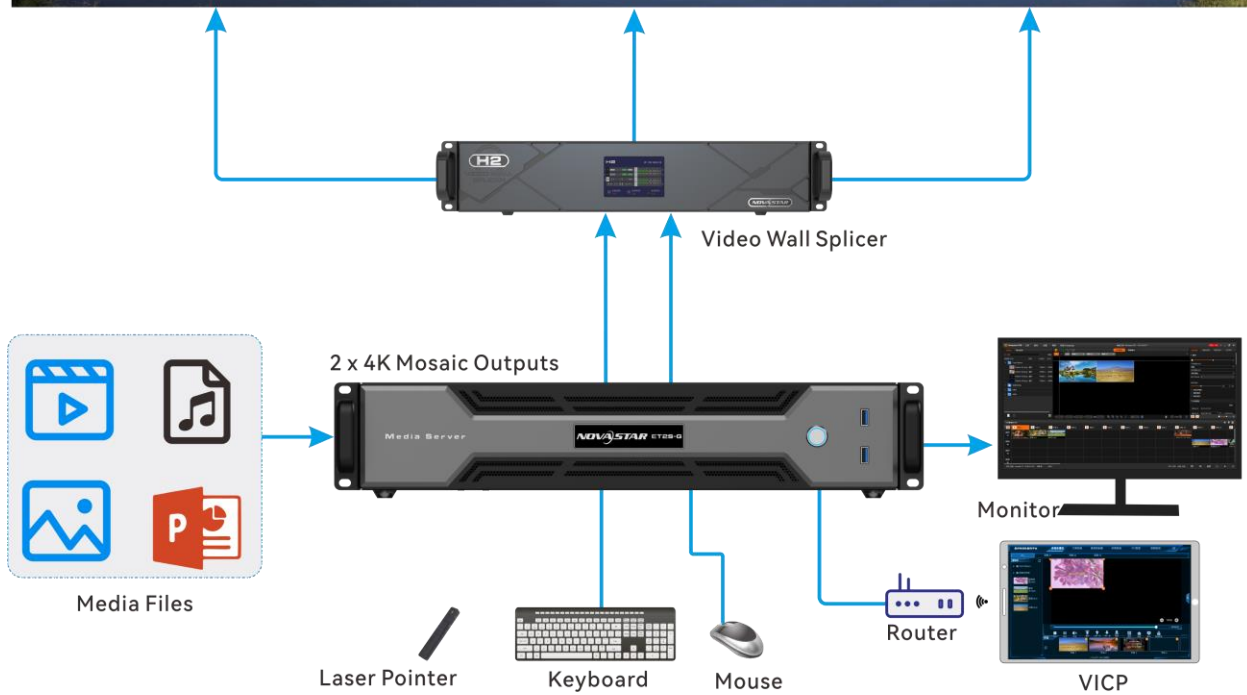
No.	Area	Description
		Realtek 2.5Gb Ethernet port for networking • 1x HDMI <ul style="list-style-type: none"> – CONTROL UI, connects to the monitor to display the software interface – Maximum output resolution is 2K × 1K@60Hz, and supports EDID lock.
4	USB	2x USB 3.0, 2x USB 2.0 <ul style="list-style-type: none"> • 1 and 2 are USB 3.0 connectors, 3 and 4 are USB 2.0 connectors. • Connect to the mouse, keyboard or USB drive.
5	AUDIO	<ul style="list-style-type: none"> • 1x Line IN: 3.5 mm external audio input connector • 1x Line OUT: 3.5 mm audio output connector • 1x MIC IN: 3.5 mm microphone input connector
6	OUTPUT	1x DP 1.2, 2x HDMI 2.0 <ul style="list-style-type: none"> • Max output resolution of single connector: 4096×2160@60Hz • Support three connectors mosaic output, and the mosaic width or height can be up to 16384 pixels. The total loading capacity is smaller than 8192×2160@60Hz. • Single connector width: 480–8192 pixels • Single connector height: 300–8192 pixels • Playback of 1 layer of 8K×2K@60fps (hardware-decoding) or 2 layers of 4K×2K@60fps SDR videos
Hardware / Software		
Power supply	400W ATX open-frame power supply	
CPU	12th Generation Intel® Core Processor(15_12400)	
Memory	16 GB high-speed DDR4	
Mainboard	ASUS B760M-A	
Storage	M.2 SSD 500 GB	
Keyboard & Mouse	Keyboard and mouse suit	
OS	Windows 10 Enterprise LTSC	
Build-in software	Kompass FX2 (licensing dongle included)	

Dimensions



Tolerance: ± 0.3 Unit: mm

Applications



Specifications

Electrical Specifications	Power connector	100–240V~, 10A–5A, 60/50Hz
	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 × 581.1 mm
	Net weight	10 kg
Packing Information	Packing box	720 mm × 595 mm × 215 mm
	Accessories	1x Power cable 2x HDMI cables 1x DP cable 1x Keyboard and mouse suit 1x Label (Windows product key included) 1x Safety Manual 1x Certificate of Approval

Media File Types and Formats

The ET2S-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, m4v
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	Standard Frame Rate (24Hz, 25Hz, 30Hz)	High Frame Rate (48Hz, 50Hz, 60Hz)
4320 (8K)	75 to 90 Mbps	110 to 135 Mbps

2160 (4K)	35 to 45 Mbps	53 to 68 Mbps
1440 (2K)	16 Mbps	24 Mbps
1080p	8 Mbps	12 Mbps

Notes and Cautions

Notes For Battery

- The battery is not intended to be replaced.
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery can result in an explosion.
- Leaving a battery in an extremely high temperature surrounding environment can result in an explosion or the leakage of flammable liquid or gas.
- A battery subjected to extremely low air pressure may result in an explosion or the leakage of flammable liquid or gas.

FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Others

This is Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

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