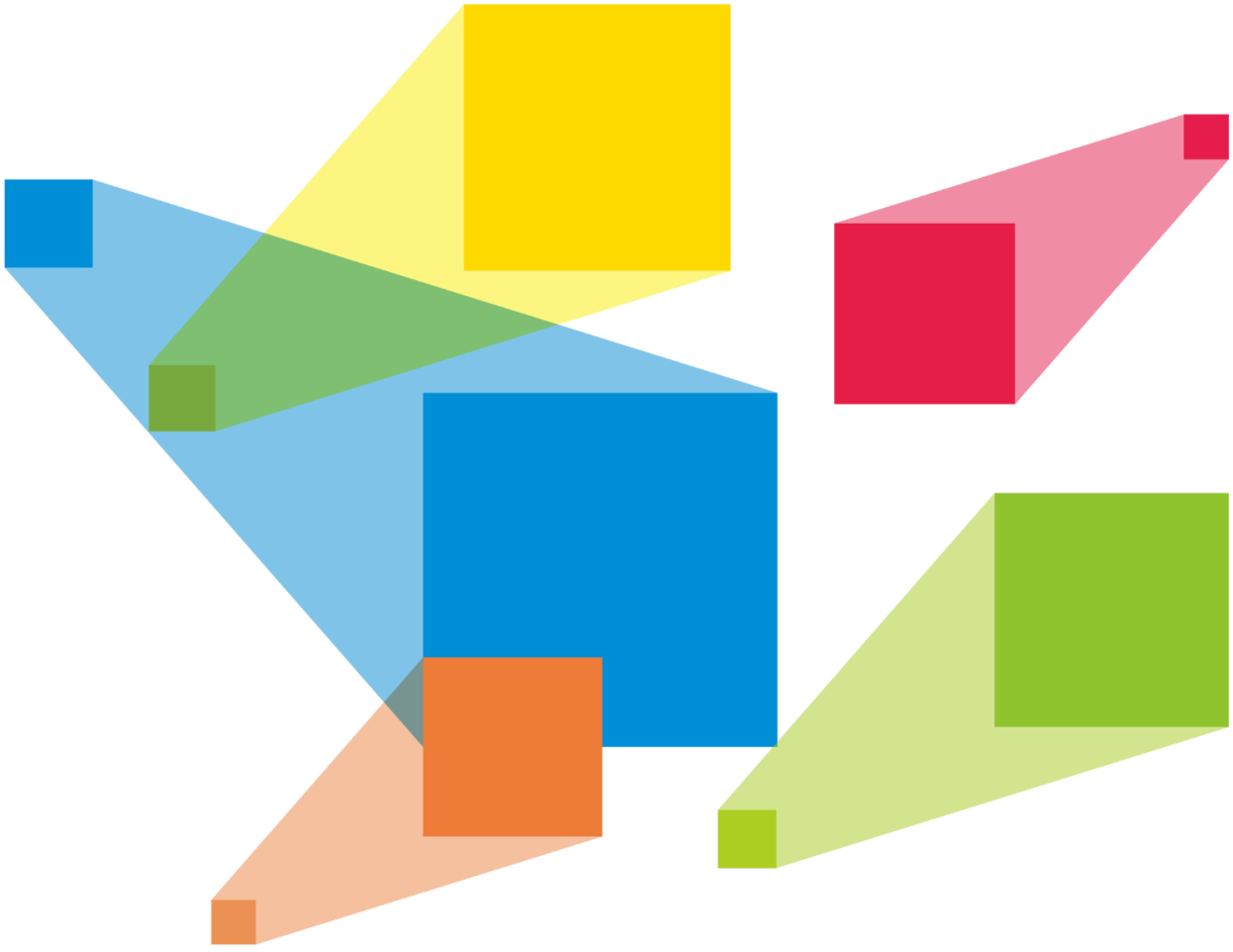
ET2S-G

Media Server



Specifications

Change History

Version	Release Date	Description
V1.3.1	2026-06-08	• Added the HDR format requirements. • Updated the certifications. • Updated the layer count. • Updated the multimedia playback and control software. • Updated the input power.
V1.3.0	2025-04-28	Updated the operating system.
V1.2.0	2025-08-06	Updated the device rear panel picture.
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 media server specifically designed for multimedia exhibition halls, banquet halls, stage performances and other creative 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

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 device supports up to 8K×2K 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 40 layers
- Visualized program arrangement and management
- Live and pre-edit modes
  - The program editing and playback are in sync in live mode
  - Edit the programs before displaying them on the screen in pre-edit mode
- Media library management, including videos, images, PowerPoint slides and audio files
- Media file sorting
- Media file batch import
- NDI sources, website sources, streaming media sources, and text sources support
- Media collection configurations
- Up to 1080p PowerPoint files supported
- Support using a laser pointer for moving between PowerPoint slides
- PowerPoint slide auto-play in sync with the program
- Playback progress management
- Program auto jump
- Configurable layer size and priority
- Main KV and 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 support
- HDR output support
- One-click FTB
- Auto startup of built-in software on system power on, auto program playback on software startup
- Controlled via NovaStar's Visual Intelligent Control Platform (VICP), enabling a highly efficient and user-friendly control experience

Appearance

Note

All product pictures shown in this document are for illustration purpose only. Actual product may vary.

Front Panel

No.	Area	Function
1	Power button	Turn on or turn off the device.
2	USB	2x USB 3.0 • Connect to the mouse and keyboard. • Insert a USB drive for importing media files.

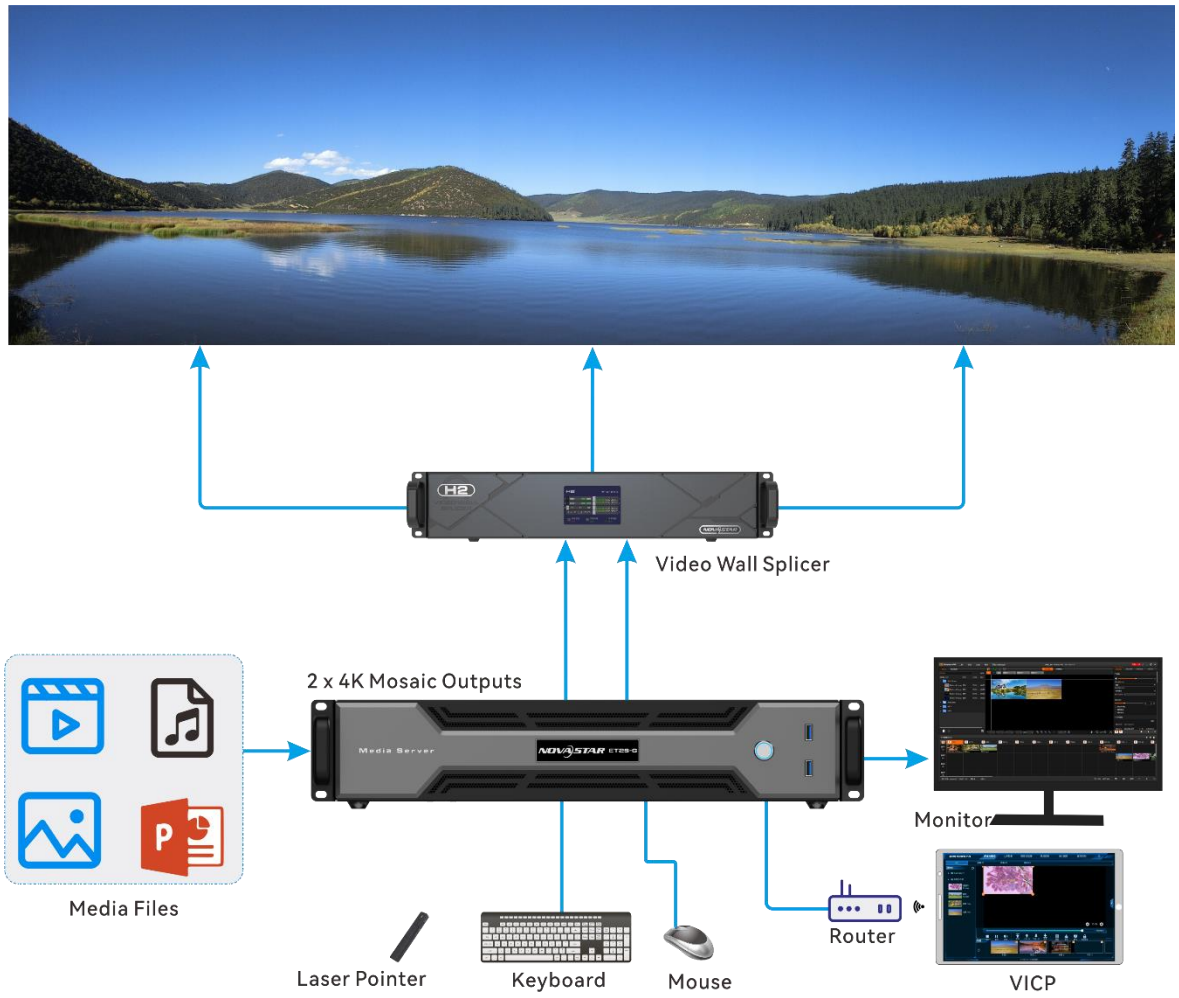
Rear Panel

No.	Area	Description
1	Power button	• ON: Power up the device • OFF: Power off the device
2	Power connector	Specifications: 100–240V~, 50/60Hz
3	CONTROL	• 1x RJ45 2.5Gb Ethernet port for networking • 1x HDMI – CONTROL UI, connects to the monitor to display the software interface – Max output resolution is 2K×1K@60Hz, with EDID lock support
4	USB	2x USB 3.0, 2x USB 2.0 • Connectors 1 and 2 are USB 3.0, while connectors 3 and 4 are USB 2.0. • Connect to the mouse, keyboard or USB drive.
5	AUDIO	• 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 • 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
Motherboard	ASUS B760M-A
Storage	M.2 SSD 500 GB
Keyboard & Mouse	Keyboard and mouse suit
OS	Windows 11 IoT Enterprise LTSC
Built-in software	Kompass FX3 Pro Advanced Edition and license dongle

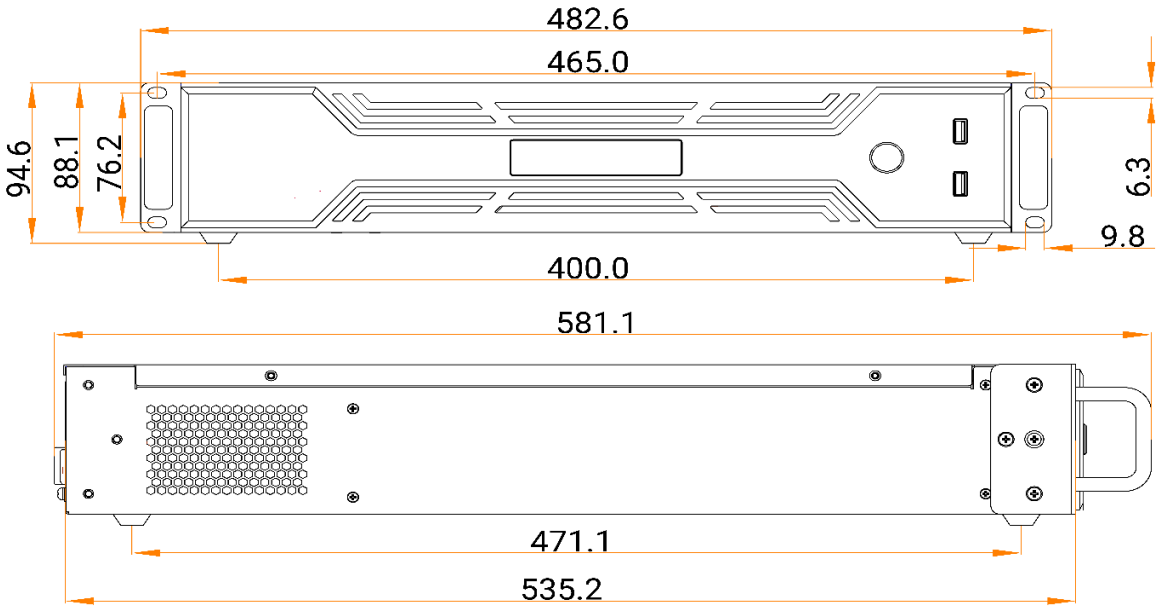
Applications



Note

- 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.

Dimensions



Tolerance: ±0.3 Unit: mm

Specifications

Electrical Specifications	Power connector	100–240V~, 50/60Hz
	Max 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	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
	Packing box	720 mm × 595 mm × 215 mm

Media File Types and Formats

The media server supports video decoding for all common encoding formats, including H.264, H.265, MPEG-4/2, and WMV. The software only supports HDR10 video playback based on PQ (SMPTE ST2084) and does not support HLG or other HDR formats.

Type	Format
Video	mp4, avi, mkv, flv, mov, wmv, mpeg, mpg, m4v
Image	jpg, jpeg, bmp, png, gif, ico
Audio	mp3, aac, flac, amr, ape, wav, wma
Office	ppt, pptx

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 (24fps, 25fps, 30fps)	High Frame Rate (48fps, 50fps, 60fps)
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

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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Statement

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