![NOVASTAR]

H

H Series Flagship
Video Splicing Processor
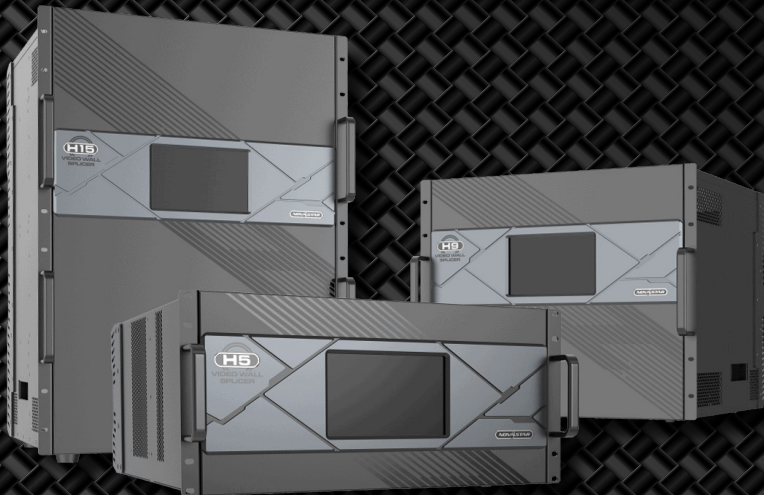
Solving complex problems has never been so simple.

H Series

H Series is NovaStar's flagship all-in-one video splicing processor, designed specifically for fine-pitch LED applications. H Series utilizes a full hardware slot structure with high-performance FPGA processing and ultra-speed Crosspoint matrix switching technology, providing powerful signal processing capabilities. It is the first All-in-One splicer and controller in the industry, which greatly simplifies system integration. H Series features true 4K video processing. With the leading image processing technology in the industry, it can give you an astonishing visual effect, truly making it the perfect solution for fine-pitch LED applications.

Traditional Solution (cumbersome)

Traditional Splicing Processor   LED Controllers

Optimization (simple)

H Series

More Features:

3D
Supports 3D display

Supports web and mobile control

EDID
Supports EDID and sequence management

Supports special-shaped splicing

Supports input monitoring and output display readback

Supports BKG and OSD layers

Supports device online self-check

Supports Genlock

Supports input image capture

Supports 200 users simultaneously online, with authorization management

Supports 3840x2160@ 30Hz network camers

Supports fade-in and fade-out, with seamless switching

Supports 2000 user presets

Supports real-time monitoring, smart alarms

Application Scenarios:

Energy and Power

Education and Research

Command Centers

Meteorology

Hydrology

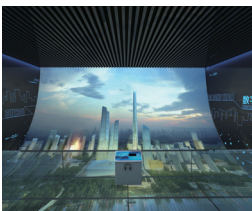Metallurgy

Security

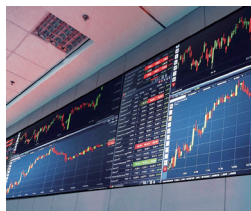Judicial Prisons

Production Control
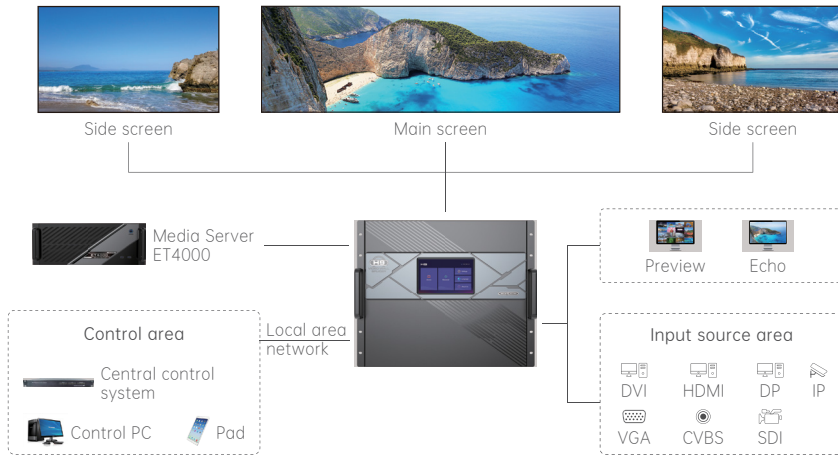

Broadcasting

Exhibitions

Enterprise Management

Banking and Finance

Security and Traffic

All-in-One — Simple Design, Yet Complex Integration

While utilizing module mainframe connectivity, the H series highly integrates splice processing and display control to achieve true all-in-one, which simplifies system interconnection structure for customers. It will also reduce equipment failure rates, and improve equipment operation and maintenance to a whole new level.

Side screen   Main screen   Side screen

Media Server
ET4000

Preview   Echo

Control area

Central control
system

Control PC   Pad

Local area
network

Input source area

DVI   HDMI   DP   IP

VGA   CVBS   SDI

True Flexibility — Awakens New Sensory Experience

H series supports numerous layers with an unrestricted arrangement. Each output daughterboard provides 16 layers. The layers can freely cross different output loading areas while keeping layer size the same. Layers can be in any position, overlapped, or unlimited scaled. It supports functions such as image capture, layer configuration, layer rotation, and more. This all helps you realize your creativity and create a captivating visual effect.


Intercept

Preset scene

Layer flip

Supports BKG and
OSD layers

True 4K — Display Every Pixel in its Intended Beauty

To meet the client's display requirements, H Series achieves true 4K (4K x 2K@60Hz, RGB 4:4:4, 10bit) signal collection, processing, and output. It can be configured with DP1.2, HDMI2.0, or other high-definition 4K daughterboards to realize ultra-high-resolution display. Input and output signal support full 60FPS smooth processing without lag or frame loss, fully showcasing the details of the image. The entire system has 10bit color depth processing, which sharply increases color expressiveness and provides a smoother transition for better image quality.
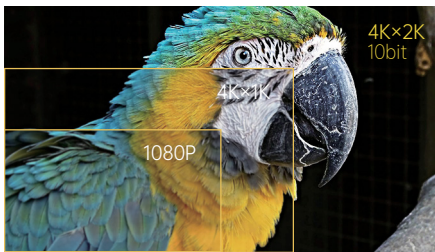

High Image Quality — Rebuild Original Vision

To handle the existing requirements of fine-pitch displays, H Series features comprehensive image quality enhancements. The internal high-definition image processing engine, support for HDR, wide color gamut transmission, high contrast, and abundant colors, those all provide more details in both light and shadow. NovaStar's HQ high-quality scaling technology, which includes an adaptive content scaling engine. This technology prevents loss of details and border errors when zooming out, as well as jagged edges and blurring when zooming in, allowing for a perfect recovery of the original image.

Original Image

Traditional Scaling

Nova HQ Scaling
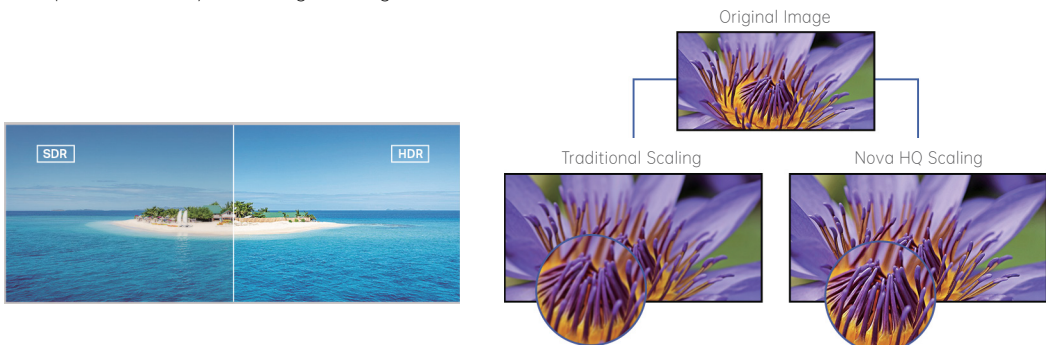
Super Stability — Multiple Safeguards for Peace of Mind

Hot plugs for inputs and outputs and smart data recovery functions provide safety, stability, and convenient operation. An industrial-grade redundant power module ensures stable operation for the course of your entire application.

Dual Power

Hot Plugs
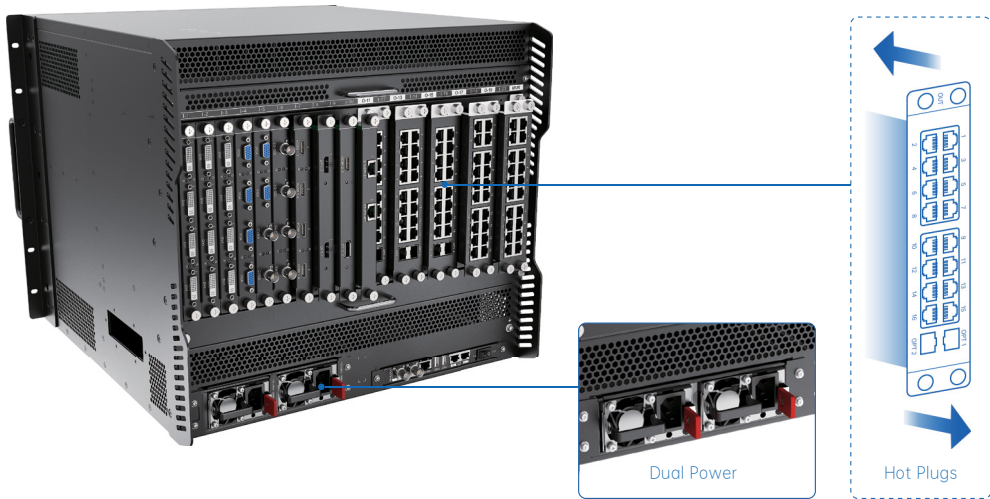
The LCD touch screen on the front panel provides real-time monitoring of the main device and daughterboard transmission status, further increasing stability. Supports real-time display readback from the screen, which gives you total control over your application for a truly trouble-free experience.

Real-time monitoring of the main device and daughterboard transmission status.

NOVASTAR

Specifications	H2	H5	H9	H15
Chassis	2 Unit	5 Unit	9 Unit	15 Unit
Max. Loading Capacity (LED 4K Sending Card)	26 million pixels	39 million pixels	65 million pixels	130 million pixels
Max. Input Cards	4	10	15	30
Max. Output Cards	2	3	5 / 10 (Enhanced)	10 / 16 (Enhanced)
Irregular screen configuration	√	√	√	√
Max. Layers	A single card supports 16 layers			
Max. Presets	2000	2000	2000	2000
10bit, HDR, 3D	√	√	√	√
Redundant Power Optional	√	√	√	√

Allows for flexible configuration of input cards:

Name	Description
H_4xDVI	4x DVI Input Card
H_4xHDMI	4x HDMI Input Card
H_1xHDMI2.0	1x HDMI2.0 Input Card
H_2xHDMI2.0	2x HDMI2.0 Input Card (H15 only)
H_1xHDMI2.0+1xDP1.2	1x HDMI2.0 + 1x DP1.2 Input Card
H_2xRJ45 IP	2x RJ45 IP Camera Input Card
H_4x3G SDI	4x 3G-SDI Input Card
H_12G SDI	1x 12G-SDI + 1x 12-SDI Loop Input Card
H_2xCVBS+2xVGA	2x CVBS + 2x VGA Input Card
H_4xVGA	4x VGA Input Card

Allows for flexible configuration of output cards:

Name	Description
H_20xRJ45	20 ethernet port output card
H_16xRJ45+2xFiber	16x Ethernet Outputs and 2x Optical Ports
H_2xRJ45+1xHDMI1.3	2x Ethernet and 1x HDMI1.3 for Monitoring

Other optional cards:

Name	Description
H_800W	Backup Power Supply

See more at: blizzardpro.com/novastar