



H Series Flagship Video Splicing Processor



Solving complex problems
has never been so **simple**

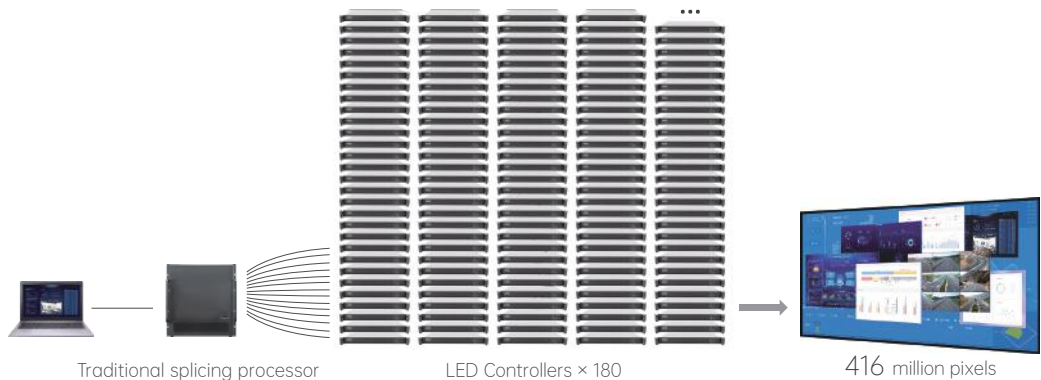
Specifications	H2	H5	H9	H15	H20
Chassis	2U	5U	9U	15U	20U
Max, Input Cards	4	10	15	30	40
Max, Output Cards	2	3	5/10 (Enhanced)	10/16 (Enhanced)	20
Max, Loading Capacity (LED 4K sending card)	26 million pixels	39 million pixels	65 million pixels	130 million pixels / 208 million pixels(Enhanced)	260 million pixels
Max, Loading Capacity (4-Port Fiber card)	41.6 million pixels	62.4 million pixels	104 million pixels/ 208 million pixels (Enhanced)	208 million pixels / 332.8 million pixels (Enhanced)	416 million pixels
Layers (2K image)	A single card supports 16 layers			A single card supports 16 layers on H15, supports 10 layers on H15 Enhanced	A single card supports 16 layers
Max Layers (2K image)	32	48	160	160	320
Preview/Monitoring	√	√	√	√	√
10bit, HDR, 3D	√	√	√	√	√
Redundant Power (optional)	—	√	√	√	√

INPUT CARDS	OUTPUT CARDS
H_4×DVI input card	H_16×RJ45+2×fiber sending card
H_4×HDMI input card	
H_1×HDMI2.0+1×DP1.2 input card	H_2×RJ45+1×HDMI1.3 preview card
H_1×HDMI2.0 input card	
H_2×RJ45 IP input card	H_20×RJ45 sending card
H_4×3G SDI input card	
H_1×12G-SDI input card	H_4×DVI output card
H_2×CVBS+2×VGA input card	
H_4×VGA input card	H_4×HDMI output card
H_2×DP1.1 input card	
H_1×DP1.2 input card	H_1×HDMI2.0 output card
H_2×HDMI2.0 input card (*Only for H15 and H15 Enhanced)	
H_2×HDMI2.0+2×DP1.2 input card (*Only for H15 and H15 Enhanced)	H_4×fiber sending card

H Series Introduction

H Series is NovaStar's flagship all-in-one video splicing processor, designed specifically for fine-pitch LED applications. H Series provides 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.

Typical solution



Optimization



Module Design — Design it your way

A simple design selects inputs and outputs to meet the needs of complex integration projects. 13 types of input cards can be connected to various devices; 6 types of output cards can directly output to LED display, LCD splicing wall and projector. Easy to upgrade, only need to add new cards to meet the requirements of more scenarios.



Flexibility layers — 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

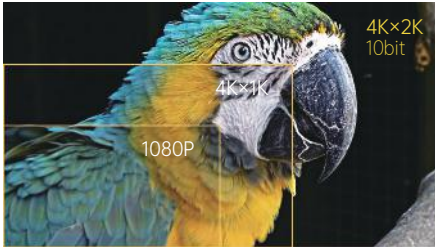
 Preset scene

 Layer flip

 Supports BKG and OSD layers

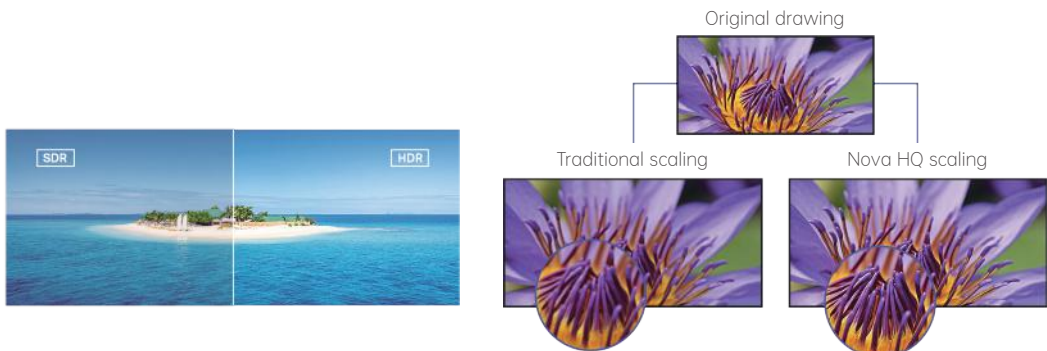
True 4K — Display every pixel in its intended beauty

H Series achieves true 4K ($4K \times 2K@60\text{Hz}$, RGB 4:4:4, 10bit) signal collection, processing, and output. 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.



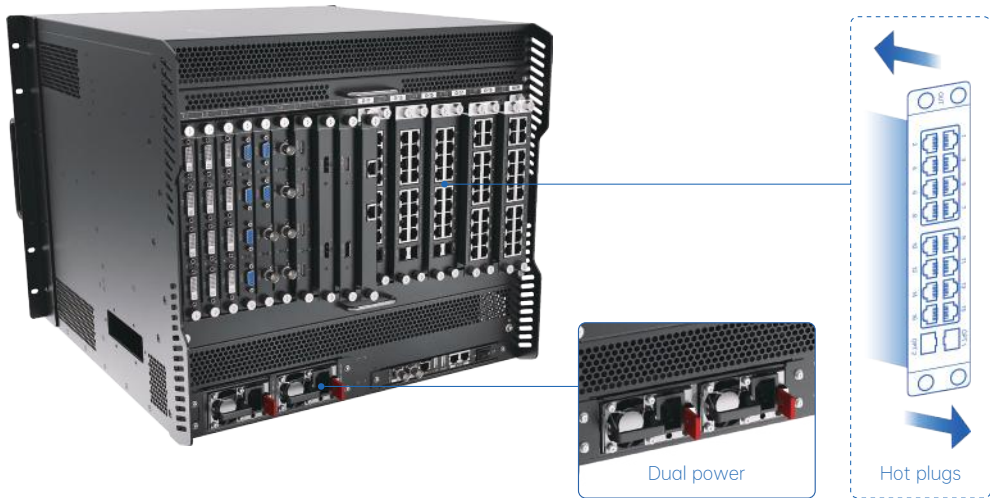
High image quality — Rebuild the original vision

H Series built-in high-definition image processing engine, support for HDR, wide color gamut transmission, high contrast and abundant colors, they 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.



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.



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.



End-user Interface Customization - Simplifies Operations and Reduces Risk

VICP is an intelligent control App, which can be used to control H series, such as access signal switching, preset switching, screen brightness adjustment, etc. A new control interface can also be generated for VICP through the VI Designer page editor to control H series products. Simple button arrangement can help customers switch inputs or preset, adjust brightness and complete basic daily operations more quickly.



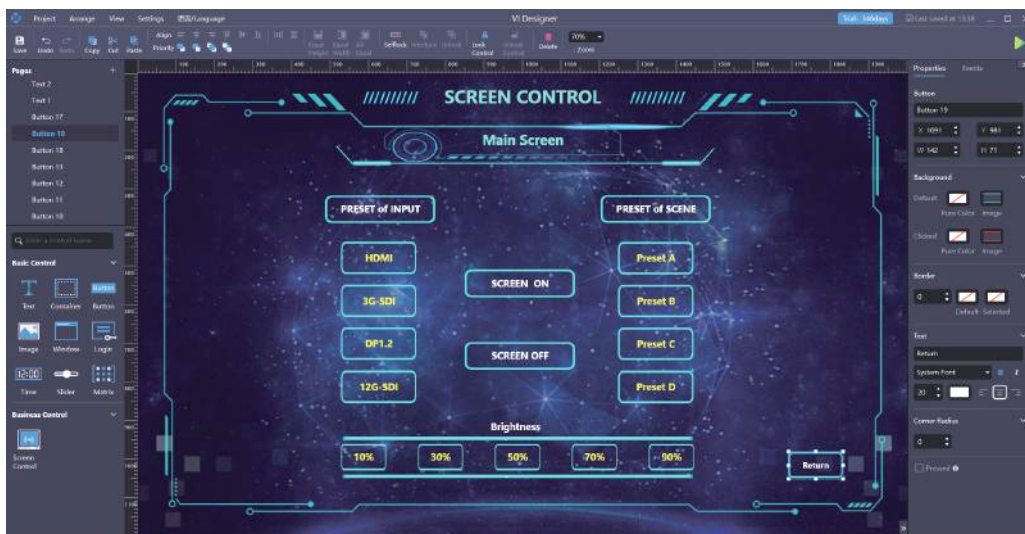
LED Wall



Video Wall Splicer



Router WIFI



VI Designer (Contact NovaStar Team to Get it)

More Features:

3D

Supports 3D display



Supports web and
mobile control

EDID

Supports EDID and sequence
management



Supports special-
shaped splicing



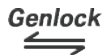
Supports input monitoring
and output display readback



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 camera



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



Supports 2000 user
presets



Supports Real-time
monitoring, smart alarms



Video Wall Bezel Compensation



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