

H

H Series Flagship Video Splicing Processor

Specifications	H5	H9
Chassis	5U	9U
Max, Loading Capacity (LED 4K sending card)	31.2million pixels	52million pixels
Max, Input Cards	10	15
Max, Output Cards	3	5
Irregular screen configuration	√	√
Max, Layers	A single card supports 16 layers	
Max, Presets	2000	2000
10bit, HDR, 3D	√	√
Redundant Power (optional)	√	√

Allows for flexible configuration of input cards	
Name	Description
H_4xDVI input card	DVI×4
H_4xHDMI input card	HDMI1.3×2+HDMI1.4×2
H_1xHDMI2.0+1xDP1.2 input card	HDMI2.0×1+DP1.2×1
H_2xRJ45 IP input card	RJ45 Gigabit Ethernet ports ×2
H_4x3G SDI input card	3G-SDI×4
H_2xCVBS+2xVGA input card	CVBA×2+VGA×2
H_4xVGA input card	VGA×4
Allows for flexible configuration of output cards	
Name	Description
H_16xRJ45+2xfiber sending card	RJ45 Gigabit Ethernet outputs ×16+OPT outputs ×2
H_2xRJ45+1xHDMI1.3 preview card	RJ45 Gigabit Ethernet outputs ×2+HDMI1.3×1



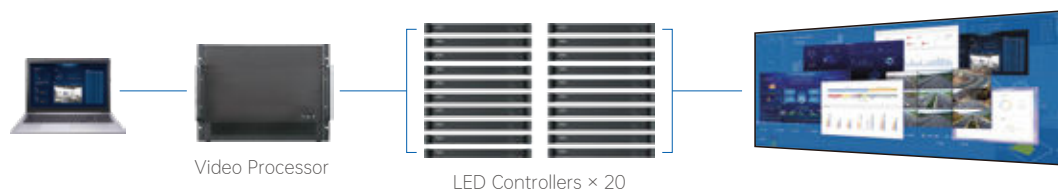
Solving complex problems
has never been so **simple**

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)



Optimization (simple)



Application scenarios:



Energy and power



Education and research



Military command center



Meteorology and earthquake



Hydrology



Metallurgy



National security



Judicial prisons



Production control



Broadcasting



Exhibitions



Enterprise management



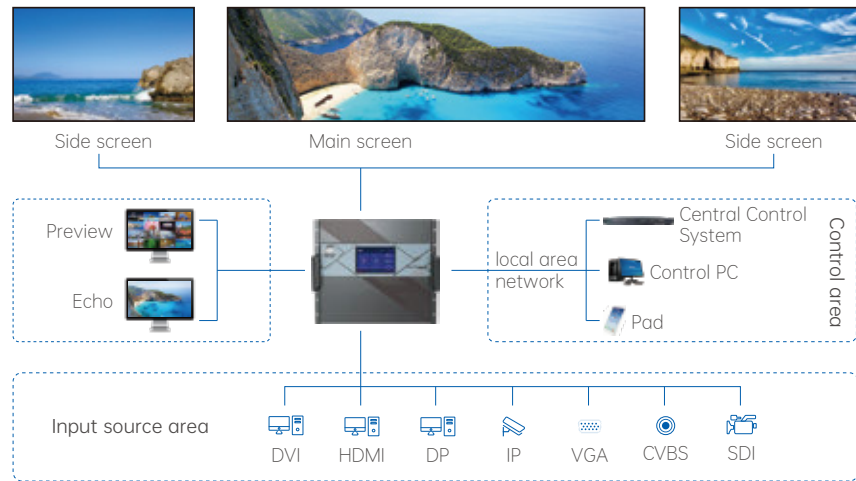
Banking and finance



Public 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.



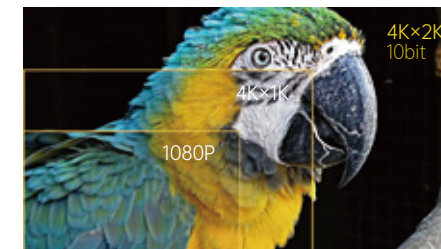
True Flexibility — Awakens new sensory experience

H series supports numerous layers with an unrestricted arrangement. Each output daughterboard provides 16 layers (Up to 16 layers maximum per port). 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.



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.



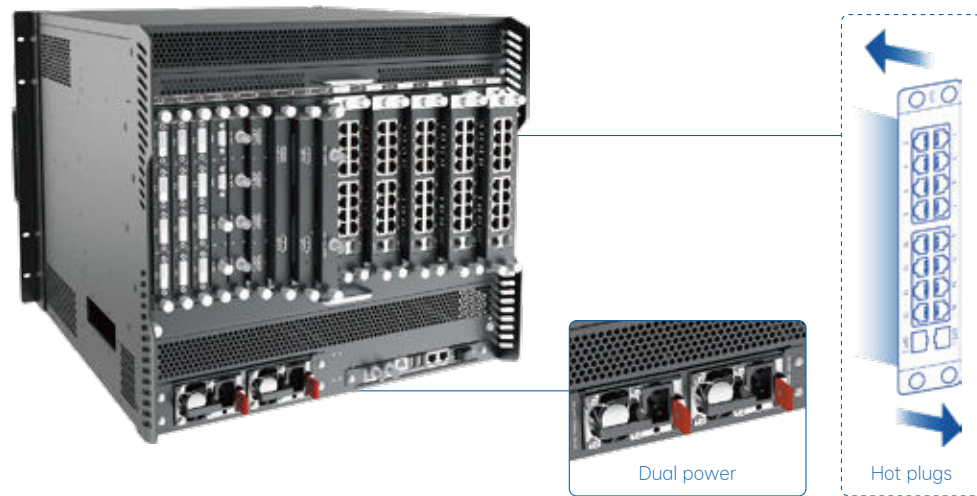
High image quality — Rebuild original vision

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.



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.



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

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