NOVASTAR

H

H Series Flagship
Video Splicing Processor

Solving complex problems
has never been so simple

NOVASTAR

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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)

Video Processor   LED Controllers × 20
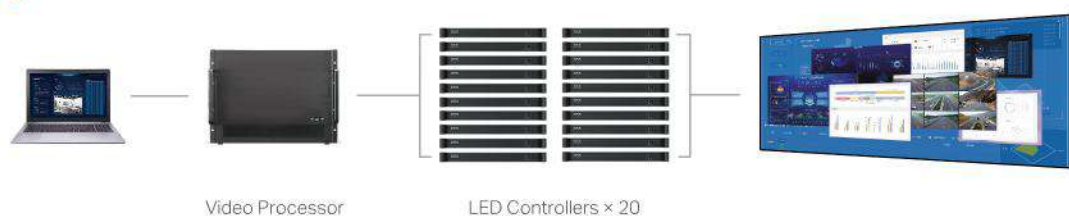
Optimization (simple)

H9
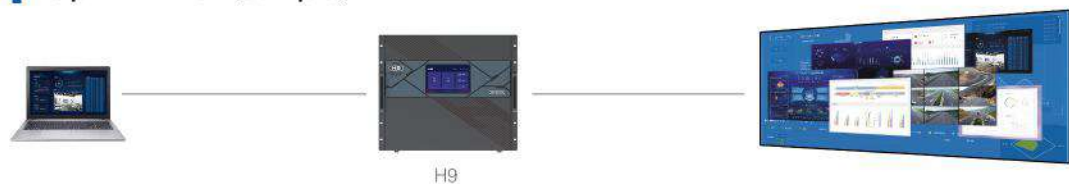
Application scenarios:

Energy and power

Education and research

Military command center

Meteorology and earthquake

Hydrology

Metallurgy

National security

Judicial prisons

Production control

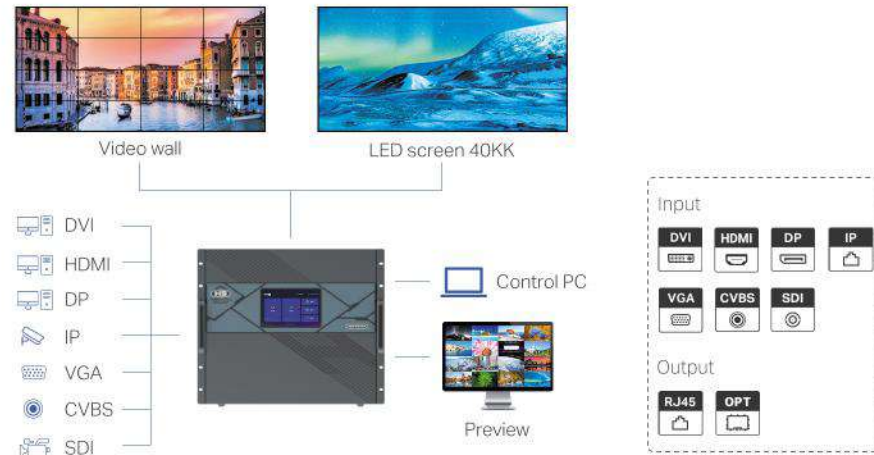Broadcasting

Exhibitions

Enterprise management

Banking and finance

Public security and traffic

All-in-One — Simple design, yet complex integration

While utilizing module mainframe connerctivity, 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.

Video wall

LED screen 40KK

DVI
HDMI
DP
IP
VGA
CVBS
SDI

Control PC

Preview

Input
DVI HDMI DP IP
VGA CVBS SDI

Output
RJ45 OPT

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.

4K×2K
10bit
1080P

30FPS

60FPS

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.

Intercept
Preset scene
Layer flip
Supports BKG and OSD layers

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 drawing

SDR   HDR

Traditional scaling   Nova HQ scaling
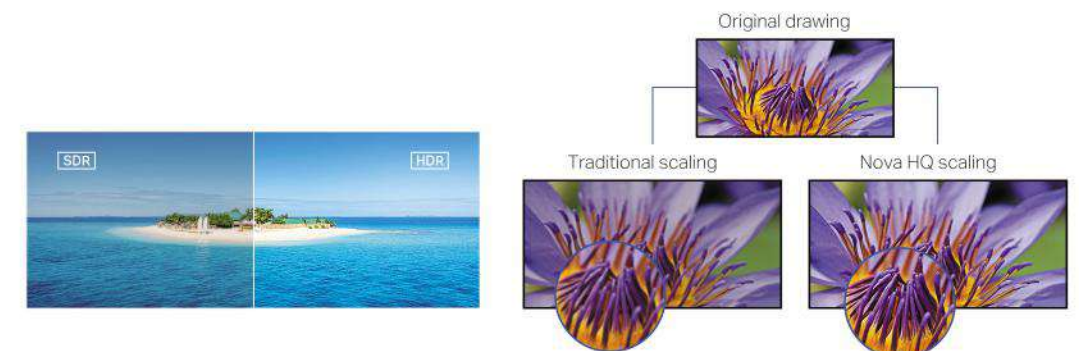
Super stability — Multiple safeguards for peace of mind

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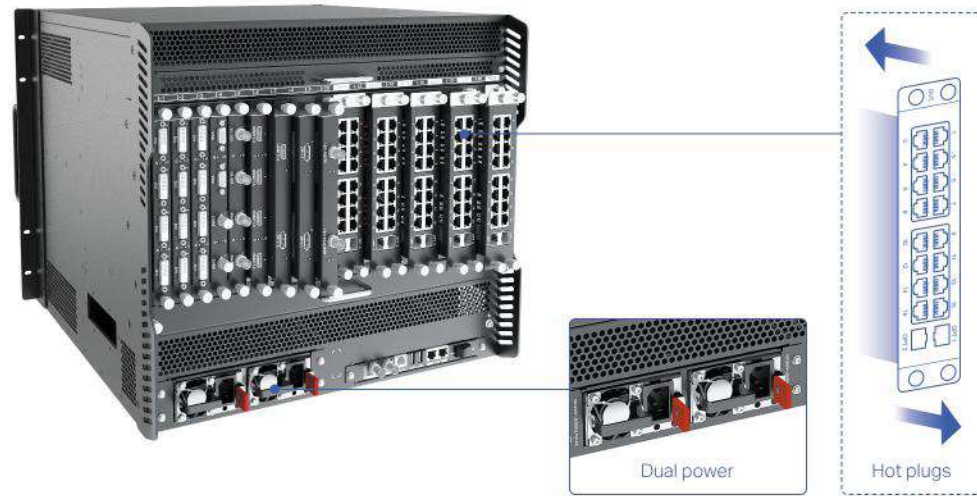
The LCD touch screen on the front panel provides real-time monitoring of the main device and daughterboard transmission status, further increasing stability. Supports real-time display readback from the screen, which gives you total control over your application for a truly trouble-free experience.

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

More Features:

3D
Supports 3D display

Supports web and mobile control

EDID
Supports EDID and sequence management

Supports special-shaped splicing

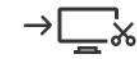Supports input monitoring and output display readback

Supports BKG and OSD layers

Supports device online self-check

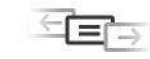**Genlock**
Supports Genlock

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

2000
Supports 2000 user presets

Supports Real-time monitoring, smart alarms