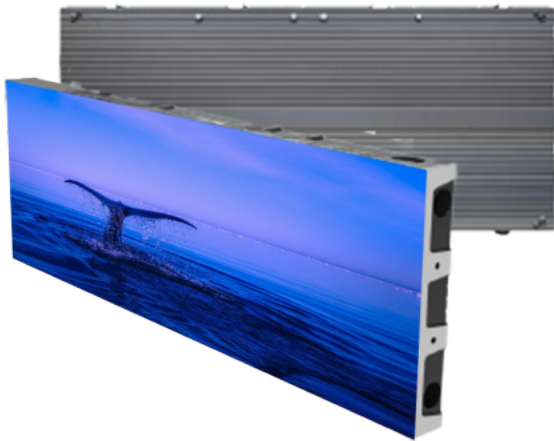




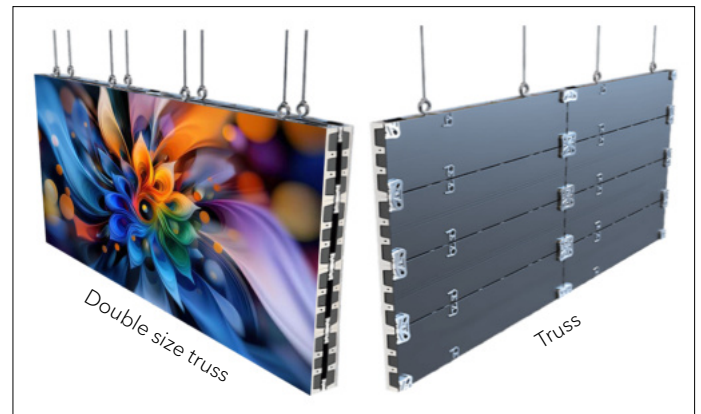
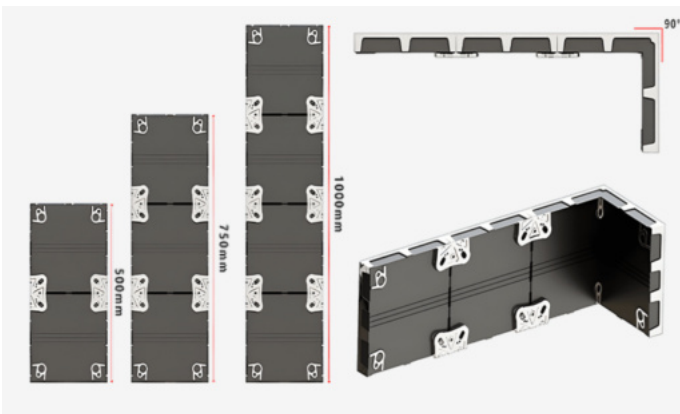
# SA-FSH SERIES

INDOOR LED VIDEO WALL



## FEATURE

- **Die-Casting Aluminum Design:** As customers have higher requirements for LED displays, more and more cabinets have been developed to meet market demands. Compared with the traditional bulky cabinet, the die-casting aluminum cabinet with humanized design is stronger, more light-weight and precise. This LED panel is highly praised for better user experience.
- **Front Access Design:** All electrical components: power supply, receiving card, and data cable are easily accessed from the front of the SA-FSH Series display. This design feature allows for direct wall mount installation.
- **Ultra-thin and ultra-light features:** The SA-FSH Series display cabinet is 42mm (1.65") thick. The LED display cabinet options weigh 5.5kgs (12.1lbs) or 2kgs (4.4lbs). Cabinet depth: 42mm only. It is one of the thinnest cabinets in the prevailing market, more cost-effective in installation space and steel structure.



- **Alternative cabinet size options:** The SA-FSH Series display cabinet is available in two sizes: 1,000mm (39.4") x 250mm (9.8") or 250mm (9.8") x 250mm (9.8"). This world's smallest cabinet size provides flexibility when selecting your final LED display size. The SA-FSH Series display cabinets can be assembled at seamless 90° angles.

- **Flexible Installations:** Thanks to the excellent cabinet structure design, the installation method is flexible, and the screen can fit well into different projects.

DESIGNED TO BE COMPATIBLE WITH CHRISTIE'S IMAGE CONTROL SYSTEM

Starview SA-FSH Series

Supported control solution	Switchers and AV distribution	<ul style="list-style-type: none"> <li>· Terra Controller</li> <li>· Terra Receiver</li> <li>· Terra Transmitter</li> </ul>
	Video wall processors	<ul style="list-style-type: none"> <li>· Hedra Standard</li> <li>· Hedra Pro-KVM</li> <li>· Hedra Pro-Video</li> </ul>
	Image processors	<ul style="list-style-type: none"> <li>· Spyder-S-Series</li> <li>· Mastering Gateway</li> <li>· Spyder X80</li> </ul>

Products "SA-FSH Series" manufactured by Starview, are paired with Christie Terra Switchers and AV distribution

Solutions beyond matrix switching for AV-over-IP system architectures

Based on off-the-shelf 10G Ethernet components, the Terra solution allows for the design of simple, flexible and highly-scalable system architectures that deliver great performance and user experience at a drastically lower total cost of ownership.

- **Terra Transmitter** - Supply audiovisual sources and control signals with uncompressed, zero-frame latency, artifact-free content over 10G networks.
- **Terra Receiver** - Deliver audiovisual sources and control from an SDVoE system to displays and other devices. Benefit from full signal management including videowall magnification, KVM switching and extension, aspect ratio management, and Multiviewer for confidence monitoring.
- **Terra Controller** - The Christie Terra Controller gives you complete, secure operational control and management over Terra devices and SDVoE systems.



Christie Hedra

Paired with Christie Hedra Video wall processors

Whether it's mission-critical operations or monitoring sources for energy and utilities, your team needs to securely display, arrange, and operate multiple sources to make quick, informed decisions. And that's where the new Christie® video wall processors come in.

With Christie Hedra™, you get secure, real-time access to your data that you can control from virtually anywhere for seamless collaboration and sharing of critical information so you can make those decisions.

Paired with Christie Spyder Image processors

Deliver the highest quality content every time

No matter what your canvas is - a live event, sports venue, control room, or corporate space - Christie® image processors and compositors can deliver the highest quality content with the lowest latency.

Christie Spyder-S Series: A revolution in compositing and processing

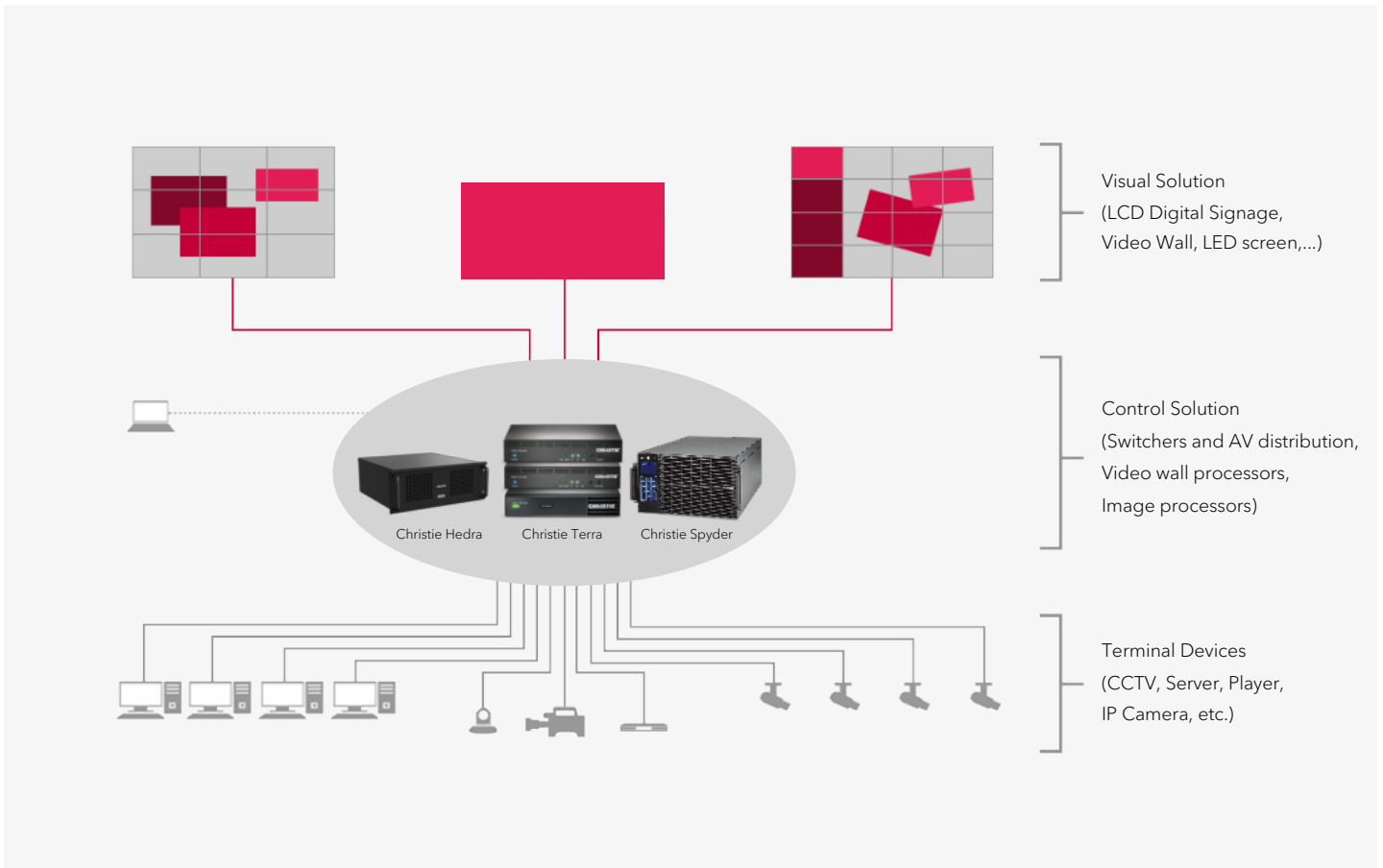
The Spyder-S Series redefines everything you know about compositing and processing with a better solution for live events, sports venues, and broadcast. Featuring a modular, scalable technology that lets you scale your system by combining individual nodes for nearly limitless inputs, outputs, and megapixels with ultra-low latency. It's everything you need and nothing you don't.

Christie Spyder X80: Designed for demanding events

An undisputed leader in its class, Spyder X80 is a powerful multi-screen windowing processor that offers performance, control, and flexibility for the most demanding, spectacular experiences imaginable.



Christie Spyder



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## Technical specifications

## SA-FSH SERIES

Model	SA-FSH-P1.5	SA-FSH-P1.9	SA-FSH-P2.5	SA-FSH-P2.6	SA-FSH-P2.9	SA-FSH-P3.9
Pixel Pitch (mm)	1.56	1.953	2.5	2.604	2.98	3.91
LED Type	SMD1212, RGB 3-in-1	SMD1515, RGB 3-in-1	SMD2020, RGB 3-in-1	SMD2121, RGB 3-in-1	SMD2121, RGB 3-in-1	SMD2121, RGB 3-in-1
Pixel Density (pixel/m <sup>2</sup> )	410,881	262,144	160,000	147,456	112,225	65,025
Module Resolution (W x H) (pixel)	160x160	128x128	100x100	96x96	84x84	64x64
Module Size (W x H) (mm) (Customize)	250x250					
Module Weight (kg)	0.5					
Module Quantity/Cabinet (W x H)	4x2 / 2x2 4x1 / 3x1 / 2x1					
Cabinet Resolution (W x H)	640x320 640x160	512x256 512x128	400x200 400x100	384x192 384x96	336x168 336x84	256x128 256x64
Cabinet Size (W x H x D) (mm) (Customize)	1000x500x20 / 500x500x20 1000x250x20 / 750x250x20 / 500x250x20					
Cabinet Area (m <sup>2</sup> )	0.5 / 0.25 0.25 / 0.1875 / 0.125					
Cabinet Weight (kg/cabinet)	9.6 / 4.8 4.8 / 3.6 / 2.4					
Cabinet Material	Die-casting Aluminium					
Salt tolerance (optional)	NEMA 4X					
Physical Density (pixel/m <sup>2</sup> )	409,600	250,000	160,000	147,456	112,896	65,536
IP Rating	IP43					
White Balance Brightness	800 - 1200 nits					
Brightness Level	Auto/Manual: 256 Levels					
Brightness Control	>1200 nits					
System Platform	Compatible with Starview CMS DSS-SW platform					
Receiving card	MRV208					
Communication	LAN: 120 m (no repeating); Optical Fiber Transmission: 500m - 10km					
Installation and Service Access	Front Access, module removal. All internal electronics accessible					
Installation Options	Standard Flat Wall   U/L shape   Concave Curve   Ceiling					
Install Orientation	Landscape					
Display Color	14 Bit					
Color Temperature (K)	3,200 - 9,000 Adjustable					
Driver IC	ICN1065L					
Viewing Angle (V/H)	160°/160°					
Luminous Point Centre Deviation	<3%					
Brightness Uniformity	≥97%					
Chromaticity Uniformity	Within ±0.003 Cx, Cy					
Contrast Ratio	5,000:1					
Max. Power Consumption (W/m <sup>2</sup> )	470					
Avg. Power Consumption (W/m <sup>2</sup> )	165					
Power Supply	100-240 VAC @50/60Hz (Use power adapter: Meanwell UHP-200A-5)					
Frame Rate (Hz)	50/60					
Drive Mode (scan)	1/32	1/32	1/25	1/32	1/28	1/16
Refresh Rate (Hz)	3,840					
Lifetime (hours)	100,000					
Heat Output Per Sqm	563 BTU/hr typical, 1706 BTU/hr maximum					
Working Temperature/Humidity (°C/RH)	-10~50°C/10%~98% (non-condensing)					
Storage Temperature/Humidity (°C/RH)	-20~60°C/10%~98% (non-condensing)					
Certification* (Optional)	CCC/ CE/ RoHS/ FCC/ EMC/ Safety 60950-1/ EN 13501-1					

\*The listed certifications are issued for markets in different regions. For the current status of the listed certifications in your region, please contact an authorized Starview representative.

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Performance specifications are typical. Due to constant research, specifications are subject to change without notice. For the most up-to-date specifications, please contact an authorized Starview representative.

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