7THSENSE

S-SERIES

> ULTRA COMPACT 2K/4K/8K MEDIA SERVER

For frame-based media serving and generative media applications.

> OVERVIEW

7thSense's 'S-Series' media server hardware delivers uncompressed 8K, 4K and WUXGA playback from a rugged server barely larger than a paperback book. Designed for installations where space, weight, energy efficiency, and quiet operation matter, and performance can't be compromised.

This small but mighty media server is powerful enough to output multiple channels of uncompressed media:

- Up to 3 channels of 4K 10-bit 4:2:2 at 60fps
- Up to 4 channels of 4K 10-bit 4:2:2 at 30fps
- Up to 4 channels of 4K 8-bit 4:2:2 at 60fps
- Up to 4 channels of WUXGA 10-bit 4:4:4 at 60fps

Warp & blend projection, pixel-pack for LED processors, and combine live video capture, movie playback, and effects into dynamic visual compositions.

> APPLICATIONS

- Media-based attractions
- Museum exhibits
- Projection mapping
- LED walls
- Architectural LED
- Live events
- Generative and interactive media

> SUPPORT

- Same day email/phone support Monday-Friday
- Optional extended warranty (up to 5 years)
- Enhanced support contract options available:
  - 24/7 support
  - Priority phone response time
  - Engineer on call
  - Engineer on site

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> TECH SPECS

> HARDWARE

- 4x DisplayPort 1.4 outputs (max resolution 4096x2160 per output)
- Low voltage DC power supply
- Kensington Security Slot
- Fixture points for mounting in optional 1RU rack mount kit
- Sturdy mechanical design supports operation in ambient temperatures up to 35°C

> PERFORMANCE

4K Output

- 4 × 4096×2160 @ 60fps (8-bit 4:2:2)§
- 3 × 4096×2160 @ 60fps (10-bit 4:2:2)
- 2 × 4096×2160 @ 60fps (10-bit 4:4:4)

§Using single movie spanning all outputs

WUXGA Output

- 4 × 1920×1200 @ 60fps (10-bit 4:4:4)

Layer Support

(max simultaneous playback at various resolutions)

- 8 HD/WUXGA uncompressed layers
- 2 UHD/4K uncompressed layers

> HIGHLIGHTS

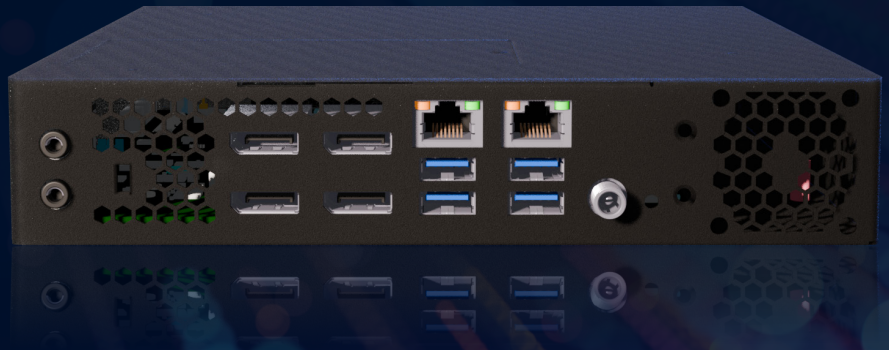
- Tested and certified for deployment around the world, warranty and support included
- High density of 4K outputs (8 per 1 RU)
- Very low power consumption
- Supports Delta Media Server®, but also available without 7thSense software if you want to run Unreal®, Unity®, Notch®, or TouchDesigner®
- Optional integration with 7thSense Juggler® product for seamless switching, IntelligentSource™ signal failover, source compositing

Licensed add-on options:

- Camera-based auto-alignment support
- Video Capture - network based or HDMI (non-HDCP) via USB

Optional Extras:

- Rack mounting frame - allows up to two S-Series media servers to be mounted in a 1RU space
- Options for up to two drives of 1 TB, 2TB, 4TB, or 8TB capacity each
- Add-on licensing for camera-based auto-alignment import



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> KEY FEATURES & BENEFITS

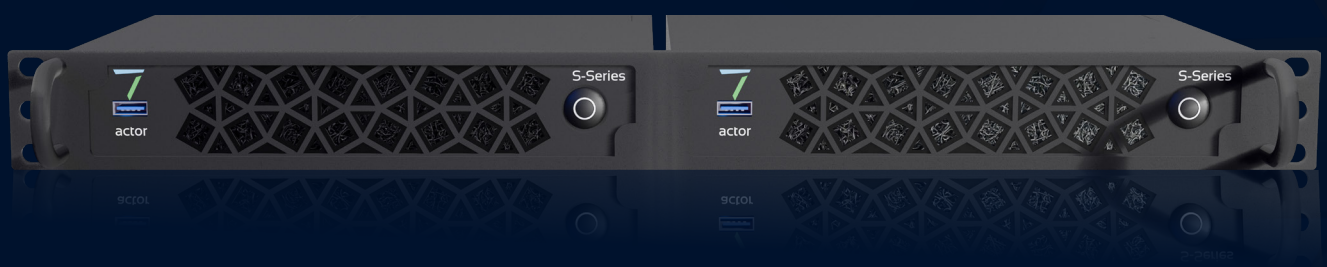
- Hardware product certified to international safety and emissions standards
- Frame-based movie sequence and timeline workflow
- Compact form factor
- Built-in Warp and Blend
- Playhead sync across multiple 7thSense media servers via network
- Remote preview of server's output availble via NDI® stream for confidence monitoring
- Supports video capture via NDI or USB video capture devices
- ASCII text-based external control via TCP/UDP, plus internal macro scripting and Art-Net™ and OSC mapping
- Supports bespoke system solutions
- Scalable and expandable with other 7thSense products
- Availalbe as hardware only without 7thSense software installed if you wish to run generative engines such as Unreal Engine, Unity, Notch, or TouchDesigner

UNREAL ENGINE Unity NOTCH TOUCHDESIGNER BY DERIVATIVE

> BENCHMARK SCORES

- Notchmarks: 11830
- Blender Benchmark:
  [Monster, Junk Shop, Classroom]
  - CPU: 89, 60, 44
- PassMark:
  - CPU: 26504
  - 3DGraphics: 7101
- Cinebench:
  - CPU MultiCore: 13114
  - CPU SingleCore: 1741
- V-Ray Benchmarks:
  - CPU Score: 9331
  - GPU CUDA Score: 223

* Embedded graphics card benchmark scores



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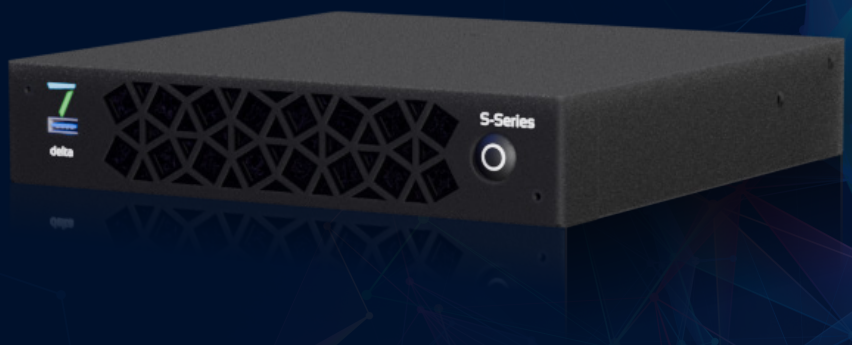

> HARDWARE SPECIFICATIONS

Video Outputs	Up to 4 × DisplayPort 1.4 (4096 x 2160 per output)
General Network	1 × 1 Gb/sec Ethernet 1 × 2.5 Gb/sec Ethernet
Data Peripherals	1 × USB 2.0 ports (type A) 3 × USB 3.2 Gen 1 ports (type A) 1 × USB 3.2 Gen 2 port (type A)
Operating System	Windows® 10 IoT Enterprise LTSC
Memory	32GB DDR5 RAM
Audio	2 channels of unbalanced analogue* 16 channels of Dante network audio
GPU	AMD Embedded Graphics
Media Storage	from 1x 1TB up to 2x 8TB NVMe SSD*
Power Consumption (typical)	65 W (playback) †
Power Consumption (maximum)	82 W (playback) †
Mounting System	1RU 19" rack mount shelf fits 2 × S-Series servers
Server Dims (H × W × D)	42mm (1U) × 217mm × 217mm
Server weight (approx.)	2.0 kg

*Customisable based on requirements
†Power requirements dependent on usage
Last updated: 09 Dec 2025

> 4 STANDARD CONFIGURATIONS

Number of 4K Outputs	Standard Features	Available Options
1	• 1 output of 4K 60fps or 4 outputs of WUXGA 60fps • 8-bit output & media handling • 1 NVMe 900 GB movie drive • 2 channels of unbalanced audio output • 16 channel Dante Virtual Soundcard	• 10-bit upgrade • Upgrade movie drive to 1800 GB, 3600 GB, 7200 GB, or 14400 GB capacity • Camera-based auto-alignment import • HDMI Video Capture (non-HDCP) via USB
2	• 2 outputs of 4K 60fps or 4 outputs of WUXGA 60fps • 10-bit output & media handling • 1 NVMe 900 GB movie drive • 2 channels of unbalanced audio output • 16 channel Dante Virtual Soundcard	• Upgrade movie drive to 1800 GB, 3600 GB, 7200 GB, or 14400 GB capacity • Camera-based auto-alignment import • HDMI Video Capture (non-HDCP) via USB
3	• 3 outputs of 4K 60fps or 4 outputs of WUXGA 60fps • 10-bit output & media handling • 2 NVMe 900 GB movie drives in RAID 0 configuration (1800 GB total movie drive capacity) • 2 channels of unbalanced audio output • 16 channel Dante Virtual Soundcard	• Upgrade movie drive to 3600 GB, 7200 GB, or 14400 GB capactity • Camera-based auto-alignment import • HDMI Video Capture (non-HDCP) via USB
4	• 4 outputs of 4K 60fps or 4 outputs of WUXGA 60fps • 10-bit output & media handling • 2 NVMe 900 GB movie drives in RAID 0 configuration (1800 GB total movie drive capacity) • 2 channels of unbalanced audio output • 16 channel Dante Virtual Soundcard	• Upgrade movie drive to 3600 GB, 7200 GB, or 14400 GB capactity • Camera-based auto-alignment import • HDMI Video Capture (non-HDCP) via USB

> PERFORMANCE HIGHLIGHTS

Number of 4K Outputs	WUXGA 1 Layer per output	WUXGA 2 Layers per output	4K 1 Layer per output	4K 2 Layers per output
1	4x 60fps 8-bit 4:4:4	4x 30fps 10-bit 4:4:4‡	1x 60fps 8-bit 4:4:4	1x 60fps 8-bit 4:2:2
2	4x 60fps 10-bit 4:4:4	4x 30fps 10-bit 4:4:4	2x 60fps 8-bit 4:4:4	2x 30fps 8-bit 4:2:2
3	4x 60fps 10-bit 4:4:4	4x 60fps 10-bit 4:4:4	2x 60fps 10-bit 4:4:4 3x 60fps 10-bit 4:2:2	2x 60fps 8-bit 4:2:2 3x 30fps 8-bit 4:2:2
4	4x 60fps 10-bit 4:4:4	4x 60fps 10-bit 4:4:4	4x 60fps 8-bit 4:2:2§	4x 30fps 8-bit 4:2:2

‡ 10-bit upgrade required to meet some specs
§ Using single movie per layer
Last updated: 09 Dec 2025

> DRIVE CAPACITY IN MINUTES AT 60FPS UNCOMPRESSED

			900 GB	1800 GB	3600 GB	7200 GB	14400 GB
DCI 8K 8192 x 4320	8 bit	4:2:2	3.7	7.5	15.1	30.3	60.6
DCI 4K 4096 x 2160	10 bit	4:4:4	8	16.1	32.3	64.7	129.4
		4:2:2	12.1	24.2	48.5	97	194.1
	8 bit	4:4:4	10.1	20.2	40.4	80.9	161.8
		4:2:2	15.1	30.3	60.6	121.3	242.7
WUXGA 1920 x 1200	10 bit	4:4:4	31	62.1	124.2	248.5	497.1
		4:2:2	46.6	93.2	186.4	372.8	745.6
	8 bit	4:4:4	38.8	77.6	155.3	310.6	621.3
		4:2:2	58.2	116.5	233	466	932

- Media duration shown is for 60fps; reducing to 30fps doubles the media duration
- Total duration is shown for drive capacity; all outputs/layers read media from the same drive
- Not all resolutions / frame rates / bit depths / colour subsampling combinations are able to be played on all servers. For example, S-Series can play 8K at 8-bit 4:2:2 60fps, but not 10-bit or 4:4:4 at that resolution.
- NotchLC encoded media has an approximate compression rate of 5:1 vs 10-bit 4:4:4, actual compression ratio is dependent on the image data

THE POWER BEHIND THE STORY

EXPLORE THE 7THSENSE PERFORMER RANGE

delta

The original 7thSense media server product line, and the first to bring uncompressed media playback to the world.

W-Series R-Series P-Series S-Series

7thSense's media server hardware platform range. Designed to be the host of Actor®, Conjurer®, and Delta Media Server®. Available as hardware-only for use in generative media applications.

medialon

Our Show Control product suite, connecting the Performer Range to other brands and products within an installation, including lighting, audio, DSPs, and special effects hardware.

actor

The next generation 7thSense media server – optimised for uncompressed video playback, projection mapping, pixel-packing for LED displays, and real-time motion tracking.

juggler

Our award-winning pixel processor range designed to be the backbone of complex high-resolution systems and mega canvasses to streamline, simplify and optimise workflows.

conjurer

Our generative content solution – bringing generative engines such as Unreal®, Unity® and Notch® into our Compere workflow.

compere

Our intelligent workflow interface that brings together the Performer Range.

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