> HIGH PERFORMANCE HARDWARE PLATFORM

Designed to be the host of Actor®, Conjurer®, and Delta Media Server® platforms.

> OVERVIEW

7thSense's 'R-Series 10' hardware solution caters to the needs of the most demanding generative projects and complex media-based attractions. Our product offerings include the highest quality video playback, pixel processing, and control solutions available today, enabling storytellers worldwide to bring their vision to life.

The R-Series hardware range is built for flexibility, optimised for the most challenging of use cases and leverages the power of generative engines like Unreal Engine® and Unity®.

Designed from the ground up and certified for professional use and resale in countries around the world, our reliable hardware benefits from advanced PCIe 4.0 graphics cards and high-speed storage devices.

> APPLICATIONS

- Virtual production
- Filmmaking
- Post-production VFX
- Real-time edits and collaboration
- Live events
- XR
- Media-based attractions
- Projection mapping
- Mega canvasses
- Architectural LED
- Generative media

> SUPPORT

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

> KEY FEATURES & BENEFITS

- Hardware product certified to international safety and emissions standards
- Robust design
- Built on PCIe 4.0 technologies

- Compatible and tested for use with:
  - Delta Media Server®
  - Actor Media Server®
  - Compere®
  - Conjurer®
  - Unreal Engine®
  - Unity®
  - Notch®
  - TouchDesigner®
  - Pixotope®

- Supports bespoke system solutions
- Scalable and expandable with other 7thSense products

> TECH SPECS

>> PERFORMANCE

- Notchmarks: 103988
- Blender Benchmark:
  [Monster, Junk Shop, Classroom]
  - CPU: 192, 128, 95
  - GPU: 6496, 3005, 3029
- PassMark:
  - CPU: 50223
  - 3DGraphics: 30330
- Cinebench:
  - CPU MultiCore: 28403
  - CPU SingleCore: 1493
- OctaneBench:
  - ATV - DirectLighting: 127
  - ATV - InfoChannels: 66
  - ATV - PathTracing: 161
  - Box - DirectLighting: 111
  - Box - InfoChannels: 34
  - Box - PathTracing: 133
  - Idea - DirectLighting: 83
  - Idea - InfoChannels: 15
  - Idea - PathTracing: 100
  - Interior - DirectLighting: 127
  - Interior - InfoChannels: 42
  - Interior - PathTracing: 155
- V-Ray Benchmarks:
  - CPU Score: 21207
  - GPU RTX Score: 5164
  - GPU CUDA Score: 3237

* Single graphics card benchmark scores with RTX6000ADA

>> HIGHLIGHTS

- PCIe 4.0 hardware based
- Tested and certified for deployment around the world, warranty and support included
- Supports Delta Media Server®, Actor®, Conjurer®, Unreal Engine®, Pixotope®, Unity®, Notch®, and TouchDesigner®
- Rack rail mounting for ease of installation and maintenance
- State-of-the-art graphics cards supporting genlock, framelock and swaplock
- Native 3G-SDI and 12G-SDI support with optional hardware
- Native SMPTE ST 2110 support with optional hardware
- Optional integration with 7thSense Juggler® product for seamless switching, IntelligentSource™ signal failover, source compositing

>> HARDWARE

- 7 × PCIe 4.0 slots
- NVIDIA® RTX™ professional GPU
- NVIDIA® NVLink™ compatible
- 1600W dual redundant power supply
- up to 2048GB DDR4 RAM (64GB standard)

> TECH SPECS

> HARDWARE SPECIFICATIONS

Video Outputs	Up to 12 × DisplayPort 1.4*
General Network	2 × 10Gb/sec Ethernet
High Speed Network	2 × 100Gb/sec Ethernet optional*
Video Sync / Genlock	Optional*
Data Peripherals	1 × USB 3.2 Gen 2x2 port 9 × USB 3.2 Gen 2 ports
Operating System	Windows® 10 Enterprise LTSC 21H2
Memory	up to 2048GB DDR4 RAM* (64GB standard)
Audio	8 × unbalanced analogue*
GPU	NVIDIA® RTX™ professional GPU*
Motherboard Technology	PCIe 4.0
Media Storage	up to 4 × 30TB NVMe SSD (PCIe 4.0)*
Power Consumption (typical)	500 W (playback), 675 W (generative)[†]
Power Consumption (max)	725 W (playback), 810 W (generative)[†]
Mounting System	3U 19" rack mount with rack rails
Rackmount Dims (H × W × D)	133mm (3U) × 483mm × 635mm
Rackmount weight (approx.)	22kg

*Customisable based on requirements
[†]Power requirements dependent on hardware spec and usage, single GPU values listed
Last updated: 29 May 2025

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.

S-Series
P-Series   R-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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