✦ Lumana   LUM452 / LUM454 / LUM456

Core 1U

SOC 2 Type II

NDAA Compliant

HIPAA Compliant

Hybrid-cloud video security system with simple deployment and real-time edge processing
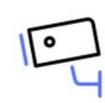
Optimizes existing camera infrastructure and brings visual intelligence to any workspace or environment

Best-in-class, self-learning AI algorithms tailored to your unique environment

Secure by default with enterprise-grade encryption and cybersecurity protocols

Lumana hybrid-cloud architecture

Any IP camera

Lumana Core

Lumana cloud

Remote access

Camera agnostic

Open platform provides powerful AI analytics to any security camera for greater situational awareness and operational efficiency.
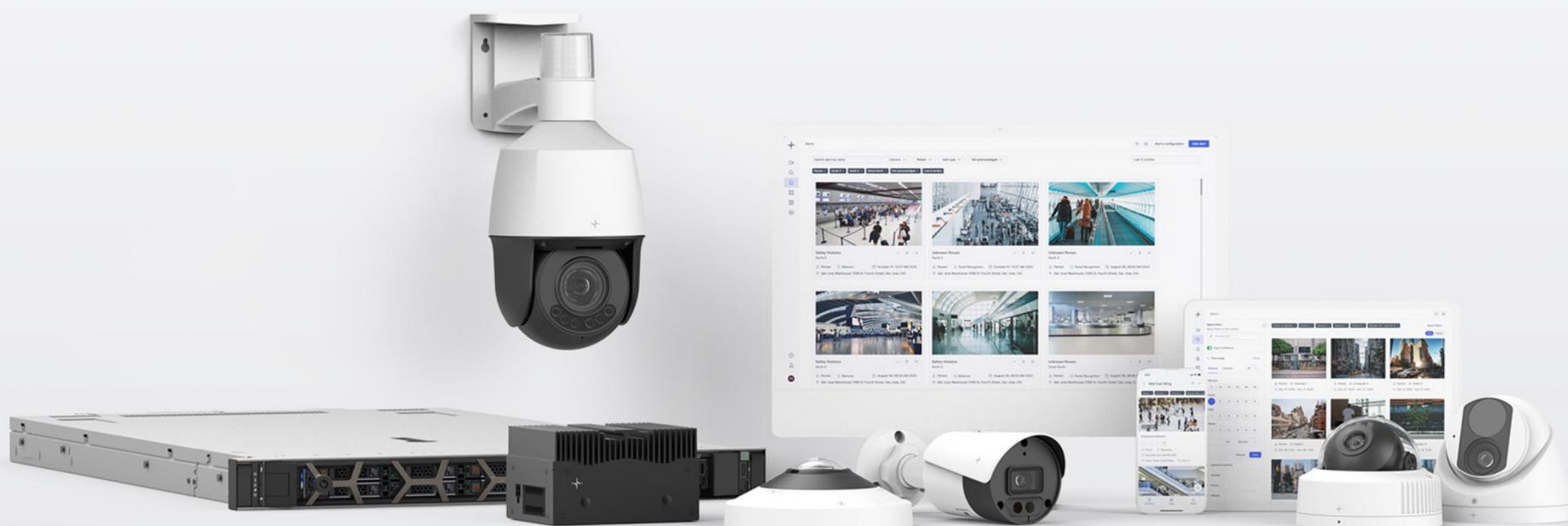
Actionable intelligence

Self-learning AI adapts to your environment to predict anomalies and trigger automatic alerts for more proactive response.

Infinitely scalable

Manage unlimited cameras and users from one platform and utilize AI to empower your team to do more with fewer resources.

Lumana is an all-in-one, AI-powered video security solution

Modern system management

Designed for easy deployment and enhanced reliability, Lumana delivers the best from on-premise and cloud solutions for a modern and refined security experience.

- Centralized management and secure remote access
- Plug-and-play setup — integrate visual AI in minutes
- Automatic updates and system health monitoring

Next-generation AI features

Patented AI and machine learning algorithms empower your team to operate more efficiently by delivering unparalleled visibility and new business insights at scale.

- Receive real-time alerts for immediate response
- Find people or vehicles of interest in seconds
- New AI features and system upgrades at no cost

Secure by default architecture

From camera endpoint to application security, Lumana features enterprise cybersecurity protocols to provide powerful AI video security built with data privacy in mind.

- End-to-end encryption for data at rest and in transit
- No port forwarding or inbound network traffic
- Automatic security updates and routine pen tests

Built for enterprise deployments

Whether you have 50 or 500 cameras, Lumana simplifies security with modern video management and proactive AI to help you focus on what matters most.

- Easy-to-use software accessible from web or mobile app
- Real-time AI to help users operate 10x more efficiently
- Distributed architecture for better performance and cost

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Core 1U

434.0mm

751.5mm
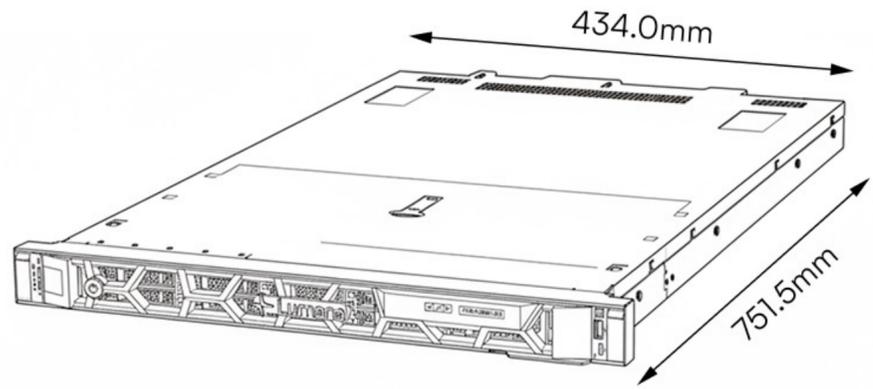
Key features

Rack mount 1U form factor

Dual OS drives and dual hot-plug power supplies

Full hardware redundancy: OS drives, power supply, and RAID

Lumana 24/7 global support

Bring-your-own IT software stack (install additional server applications)

Up to 88TB enterprise-grade storage

Hardware RAID for redundancy

Onsite support with next-business-day repair

Compatible with any RTSP IP camera

General information

Weight	20.2 kg (44.53 lbs)	**Dimensions**	434.0 mm (17.08 in) × 42.8 mm (1.685 in) × 751.48 mm (29.59 in, ear to rear wall)
Power supply	Dual redundant, 800W MM (100—240Vac), hot-plug	**BTU rating**	3000 max theoretical
Camera capacity	Up to 64 channels of 5MP cameras with full analytics capabilities	**Camera compatibility**	Any RTSP IP camera
Recording retention	30 / 60 / 90 days*	**Remote viewing**	Mobile or PC

Hardware

Form factor	Rack mounted 1U	**CPU**	AMD EPYC 9124, 3.0GHz, 16 cores / 32 threads, 64MB cache (200W) DDR5-4800 XL
GPU	NVIDIA L4, PCIe, 72W, 24GB Passive, Single Wide Low Profile	**RAM**	128GB total (8 × 16GB RDIMM)
Operating system	Linux		

*Depends on customer selection

Storage

Chassis	3.5" with up to 4 × SAS3/SATA drives (front-accessible, hot-plug)	**RAID controller**	PERC 11
Raw storage options	32TB / 64TB / 88TB enterprise-grade drives	**Hardware RAID**	Yes, with extensive configuration options
Dual OS drives	Yes, RAID1 SSDs		

Network

Interface	Dual Port 1GbE(RJ45) + 1 × iDRAC/Mgmt	**Remote management**	iDRAC9 Enterprise 16G

Environmental

Operating temperature	10° — 35° C / 50° — 95° F	**Storage temperature**	-40° — 65° C / -40° — 149° F
Humidity	10 — 85% RH (non-condensing)		

Server maintenance

Lumana enables customers to install and operate server maintenance IT software, such as endpoint monitoring tools, to simplify server management.

Use cases:

Endpoint monitoring	Server health management	Simplified server operations

IT software enablement	Yes	**Resource allocation**	Per VM
CPU	2 cores	**Memory**	16 GB

Reliability and ownership

Redundancy	Full hardware: dual OS drives, dual hot-plug power supply, RAID storage	**Credential and key encryption**	TPM 2.0
Onsite hardware repair/replacement	Next business day	**Additional server applications**	Bring-your-own IT software stack
Customer support	24/7 global support	**Warranty**	**Leased:** Lifetime **Purchased:** 3 years, extendable to 5 years
Regulatory model	E97S	**Regulatory type**	E97S001