

Quantum.

VS-NVR SERIES

Simple, optimized, and reliable video recording servers, including Smart NVRs that run multiple applications on a single NVR.



DATASHEET

FEATURES & BENEFITS

Lower Costs and Complexity with Smart NVRs

Smart NVRs in the VS-NVR Series run multiple applications on a single NVR—for example, multiple VMSs or a VMS and other applications such as Access Control or Incident Management—reducing hardware-related costs and complexity.

Hardened and Secure

Smart NVRs have four layers of built-in digital security protect your video and other data from unauthorized and malicious access or corruption.

Optimized for Performance and Reliability

All VS-NVR Series models are optimized for video recording and storage using the latest hardware and software for maximum performance and reliability.

Simple to Set Up and Manage

Connect it to your network and start to record in minutes and with built-in automatic health and resource monitoring and reporting you are assured of optimum performance and uptime.

No VMS Vendor Lock-in

VS-Series NVRs support any VMS vendor, so you won't be locked in or end-up with orphaned hardware should you decide to change VMS vendors.

Do More, Relax More with Quantum Video Recording Servers

Quantum offers a portfolio of video recording servers optimized to meet the needs of a broad range of video surveillance environments, from a few cameras to hundreds of cameras that support any vendor's Video Management System (VMS). Each product is designed to be simple to set up and manage, uses the latest hardware and software optimized for performance and reliability, and are affordable.

Quantum's innovative Smart NVR significantly increases the power and flexibility over conventional video recording servers. Smart NVRs combine the Quantum Unified Surveillance Platform™ software with a purpose-built recording server to create a next-generation, integrated appliance for capturing and recording surveillance video. They are the first and only network video recorders that allow you to consolidate multiple applications - VMS, other physical security, or building management applications, regardless of vendor, on a single server.

The VS-NVR Series is available in a variety of form factors, including a 1U rack mount and 2U rack mount server for recording and retaining footage from hundreds of cameras for months or years.

Every product is backed by Quantum's global support organization, providing installation and support 24x7x365 to tens of thousands of customers around the world.



LEARN MORE:

www.quantum.com/video-surveillance

Quantum Smart NVRs Lower Costs and Complexity

The VS-NVR Series includes the Quantum Smart NVRs, powered by the Quantum Smart NVR software, which are designed to help security integrators and organizations address the challenges of controlling costs, reducing complexity and keeping critical video and systems safe from unauthorized access and malware threats with a next-generation NVR that delivers more than conventional NVRs. The Smart NVR software enables the consolidation of multiple applications onto a single NVR, while at the same time being simple to set up, deploy, and manage.

Host Multiple Security Applications on the Same NVR



SMART NVR KEY FEATURES AND BENEFITS

Optimized Performance and Resource Utilization

Maximum hardware resource utilization and performance is achieved through optimizing the firmware, storage, operating system, VMS operation, and network setup – in short everything for capturing and storing video most effectively. Plus, the software assigns priorities and thresholds to each application so that critical applications perform as needed.

Simple Setup and Management

Intuitive user interface combined with menu-driven setup, reduction of multiple steps into one-click executions, and streamlined application installation simplify deployment and save time.

Built-in Data Center Grade Security

Stay safe and relaxed knowing that there is a security shield to prevent unauthorized user access and thwart malicious attacks on your critical video. This will help ensure you comply with your organization's cybersecurity directives with software-defined firewalls and physical VLAN integrations.

Health and Resource Monitoring and Reporting

An easy-to-use dashboard enables you to monitor, report, and alert on system health, compute, storage, and application resource utilization, as well as performance to verify that the NVR is recording and storing video, reducing the risk of any video loss.

Smart NVRs are available in 2U 8-bay and 24-bay rack mount servers with the compute and performance to run multiple applications, including recording and retaining footage from hundreds of cameras for months or years.

Smart NVR Models ¹	VS2008D-SNVR	VS2024D-SNVR
Smart NVR Use Case ²	Run multiple applications to reduce server count including recording for up to 245 cameras	Run multiple applications to reduce server count including recording for up to 540 cameras
Specifications		
Form Factor	2U Rack Mount	2U Rack Mount
Software	Out of Band Remote Management Health & Resource Monitoring	Out of Band Remote Management Health & Resource Monitoring
Operating System	Quantum Smart NVR Software	
Storage Capacity (Raw)	24 TB to 192 TB	24 TB to 576 TB
Base # HDDs	3	3
Max # HDDs	8	24
HDD Drive Capacities	8 TB, 12 TB, 16 TB, 20 TB, 24 TB	
OS Drives	2x 480 GB M.2 SSD	2x 480 GB M.2 SSD
Intel® Xeon® CPU	Single or Dual Intel Xeon Silver 4410Y	Single or Dual Intel Xeon Silver 4416+
RAM	64 GB to 1 TB	64 GB to 1.5 TB
GPU	–	NVIDIA A2, L4, A30 (only up to 16 drives)
Networking	4x 1 GbE 2x 10 GbE SFP+	4x 1 GbE 2x 10 GbE SFP+
Display Connections	1 front and 1 rear VGA ports	VGA D-Sub Connector port
Power Supplies	2x 600 W Platinum 2x 800 W Platinum Redundant and Hot Plug	2x 1100W Platinum Redundant and Hot Plug
Dimensions (W, D, H)	17.1" x 27" x 3.41"	17.1" x 29" x 3.41"
Weight	54.67 lbs	73 lbs
Warranty	5 yrs. NBD	5 yrs. NBD

¹ Other configurations available upon request
² Supported number of cameras based on 2.41 Mbps stream, 1080P, 15 FPS

NVR Models ¹	VS1004D-NVR	VS2008D-NVR	VS2024D-NVR
NVR Use Case ²	NVR for up to 90 cameras	NVR for up to 245 cameras	NVR for up to 540 cameras
Specifications			
Form Factor	1U Rack Mount	2U Rack Mount	2U Rack Mount
Software	Out of Band Remote Management Health & Resource Monitoring		
Choice of Operating System	Windows 10 Pro or Windows Server 2022 Std. or Linux 20.04 Server		
Storage Capacity (Raw)	8 TB to 96 TB	24 TB to 192 TB	24 TB to 576 TB
Base # HDDs	1	3	3
Max # HDDs	4	8	24
HDD Drive Capacities	8 TB, 12 TB, 16 TB, 18 TB, 20 TB		
OS Drives	2x 480 GB M.2 SSD	2x 480 GB M.2 SSD	2x 480 GB M.2 SSD
Intel® Xeon® CPU	Single Intel Xeon E-2436 or Single Intel Xeon E-2324G	Single or Dual Intel Xeon Silver 4410Y	Single or Dual Intel Xeon Silver 4416+
RAM	32 GB to 128 GB	64 GB to 1 TB	64 GB to 1.5 TB
GPU	—	—	NVIDIA A2, L4, A30 (only up to 16 drives)
Networking	2x 1 GbE	4x 1 GbE 2x 10 GbE SFP+	4x 1 GbE 2x 10 GbE SFP+
Display Connections	VGA D-Sub Connector port	1 front and 1 rear VGA port	VGA D-Sub Connector port
Power Supplies	2x 350 W Platinum Redundant, Hot Plug	2x 600 W Platinum 2x 800 W Platinum Redundant, Hot Plug	2x 1100 W Platinum Redundant, Hot Plug
Dimensions (W, D, H)	17.1" x 23.98" x 1.68"	17.1" x 27" x 3.41"	17.1" x 29" x 3.41"
Weight	29.98 lbs	54.67 lbs.	73 lbs
Warranty	5 yrs. NBD	5 yrs. NBD	5 yrs. NBD

¹ Other configurations available upon request

² Supported number of cameras based on 2.41 Mbps stream, 1080P, 15 FPS



Quantum delivers end-to-end data management solutions designed for the AI era. With over four decades of experience, our data platform has allowed customers to extract the maximum value from their unique, unstructured data. From high-performance ingest that powers AI applications and demanding data-intensive workloads, to massive, durable data lakes to fuel AI models, Quantum delivers the most comprehensive and cost-efficient solutions. Leading organizations in life sciences, government, media and entertainment, research, and industrial technology trust Quantum with their most valuable asset – their data. Quantum is listed on Nasdaq (QMCO). For more information visit www.quantum.com.

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