



VideoX[®] V5 V500 NVR



V5 Video Server

- Windows Server
- RAID 6, up to 288TBs
- N+1 hot-swap power, cooling & drives
- 3,000 Mbs throughput
- 12 Bay 2U Rack w/ Rails



VideoX Enterprise Features



Flexible & scalable Tier-1 Enterprise Storage

Flexible configurations for security teams to cost-effectively scale up petabytes in tier-1 storage capacity and tailor it to their unique retention requirements. VideoX NVRs feature enterprise class HDDs & SSDs for tier-1 availability & performance.



Lower Deployment Costs - Hardware Accelerated H.265

V5 VideoX micro-architecture acceleration delivers up to 2.3x H.265 stream processing per server, providing 30–50% storage and bandwidth savings versus H.264. Integrators can reduce server counts, increase camera density, and extend retention—without increasing the budget.



High Data Availability

Ultra reliable storage with RAID-configured redundancy offers a highly available and resilient system that protects your data. All VideoX Enterprise models include enterprise hard drives with RAID 6/60 redundancy to tolerate up to 6 hard drive failures depending on model and configuration.



Strengthen Cybersecurity

Designed with cybersecurity in mind, VideoX comes with a TPM 2.0 module built-in to support hardware Root of Trust authentication and data encryption. All VideoX are fully NDAA Compliant.

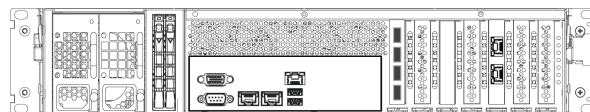


Advanced Support

5 Years, Next Business Day, Advanced Parts Replacement warranty ensures uptime continuity. Secure remote management & advanced support delivers rapid response & uptime.

Key Attributes

- Windows Server 2022 or 2025
- AMD EPYC 9005 Zen5 CPU
- 32GB RAM Registered ECC
- Up to 288TB capacity
- 12x Enterprise 24/7 HDDs
- Mirrored, hot-swap OS SSDs
- Double drive failure protection
- Quad 10Gb Ethernet ports
- Remote management IPMI
- TCG 2.0 Cybersecurity w/ TPM



Ideal Use

- Tailored for mid to large-sized deployments with growing camera counts and retention needs, this solution prioritizes security and high performance. It offers robust video protection combined with expanded storage capacity, to meet the demands of evolving surveillance environments.
- Client View application on server not supported (requires separate security workstation)

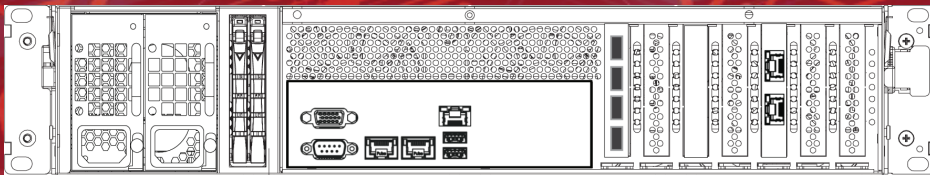


For more information visit: Arxys.com/videox-appliances

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VMS licensing and support is not included and is provided by the security partner or customer. rev: 10/01/2025



VideoX[®] V5 V500 12 Bay



Enterprise Server for Video Surveillance & Video Analytics

Hardware Information

CPU

5th Generation Zen5 AMD EPYC™ 9115 4.1GHz CPU
Max All Core Turbo 3.3 Ghz , 16 Core / 32 Thread 64M cache, 125W TDP

Hardware Acceleration

Chiplet microarchitecture. AMD Infinity Architecture, AMD Infinity Guard, Per core CAE|CFD|FEA, CXL 2.0, AI & Analytics acceleration: Native 512-bit data paths in the core, instruction pipeline optimizations, and additional integer and floating-point units boost h.265 math.

RAM

32GB ECC Registered DDR5 (minimum)

OS

Microsoft Windows Server Standard 2022 or 2025 (LTSC)

VMS/OS Drive

Mirrored 480GB Enterprise 3D TLC Flash SSD SATA3
Dedicated for OS/VMS, Hot-swap

Hard Drives

12x Enterprise Class 7200 RPM, 3.5" HDD's, 2.5M MTBF. 600k Duty Cycle, Certified 24/7 Operation, tool-less Hot-swap

Storage Capacities

Up to 288TB raw capacity

RAID

Hardware RAID 6 Double Fault Tolerance w/ HW XOR Engine, CacheVault protection, patrol read repairs

Network

4x (Four) Enterprise 10Gb Eth RJ45 ports + 1Gb IPMI
(2x 10Gb SFP+ or 2x 25Gb SFP28 upgrade available)

Display Ports

VGA (Client View applications not supported on server)

Credential & Key Encryption

AMD Secure Encrypted Virtualization (SEV) · AMD Secure Memory Encryption (SME) · Cryptographically signed firmware · Data at Rest Encryption (SEDs with local or external key mgmt) · Secure Boot · Secured Component Verification (Hardware integrity check) · Secure Erase · Silicon Root of Trust · System Lockdown · TPM 2.0 FIPS, CC-TCG certified

Remote Management

Out of Band (OOB) Remote Management including: IPMI System Management, KVM Console Redirection

General Information

Form Factor

Standard 19" Rackmount w/Rails 2U height

Power Specifications

800W 1+1 redundant PSU PMBus 1.2 80+ Platinum, Output @ 100-240V, 10-5A, 50-60Hz

Max Power Consumption

800W up to 80% efficient (Platinum) hot-plug redundant

Cooling

3 x 80x38mm PWM & low-power consumption hot swap fans

Dimensions

680mm (depth) x 430mm (width) x 88mm (height)

Weight

Ship Weight W/ 12x HDDs = 40k/87lbs

Warranty

5 Years Advanced Warranty with NBD Advanced Parts Replacement of Field Replaceable Units (FRUs).

Environmental Information

This unit is intended for stationary server room and office use, according to the conditions stated below.

Operating Temperatures

10- 30 C / 41 - 86 F

Storage Temperatures

-40 - 65 C / -40 - 149 F

Humidity

10 – 90% relative humidity (non-condensing)



Regulatory Information

Safety & Emission Standards

CE (class A), UKCA, FCC, RCM, UL.

Trade Compliance

NDAA Compliant, no disclosures



A Microsoft Windows license is included with all systems. Systems ship with Microsoft Windows operating systems pre installed without media, but not setup which is the responsibility of the installer. Video management software & other application installers are included but NOT installed, on the OS drives. Installation, and configuration of the video management software and any other application to be performed by installer/integrator or end user. The installer of the system must install the appropriate VMS version, do all configuration and setup of users and cameras, databases etc. Latest Milestone & Avigilon best practice is to use SQL Standard on all installations over 300 cameras. SQL Standard is optional and not included with Milestone, Avigilon or any other VMS.

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