



V3000 Series Network Video Recorder

High-performance Surveillance NVR

The V3000 Series Network Video Recorders (NVRs) are a scalable control and archive platform targeted for high-performance IP video surveillance applications. This SurVIS™ (Surveillance Video Information Server) NVR comes in rack mount or desktop form factors, runs commercially available Digital Video Surveillance Management software, scales in both video processing power and archive capacity, comes with a Microsoft Operating System pre-installed and allows the user to view live or recorded video across 1, 2 or 4 monitors. The V3000 series of products optimize performance for large camera count applications as well as installations requiring the use of multimega-pixel cameras. With the ability to process up to 3000 VGA (640 x 480) images per second or 300 Mbps, depending on software package, the V3000 is ideally suited to enterprise class installations at large facilities with an existing IT infrastructure. The NVR provides the ability to record and retrieve video and monitor alarms on a single application specific appliance. Storage can be scaled to 224 TB in a non-RAID, RAID 0, RAID 5 or RAID 6 configuration. Desktop systems support the addition of one removable hard drive bay and a 2 TB drive and a 24" monitor.

In green field installations or system upgrades, network surveillance systems like those offered by VNS are an excellent choice to meet end user's increasing demands from their security systems.

Applications and Features

Applications:

- Airports
- Casinos
- Municipalities
- Correctional Facilities
- Shopping Centers
- Education campuses
- Hospitals
- Ports
- Large commercial buildings
- Financial institutions
- Sports complexes



Features:

- Rack mount or Desktop footprint
- Intel® Scalable® technology
- Expandable system memory
- Flexible video archive size: 2000 GB to 224 TB
- Microsoft Windows® Operating System
- Separate OS drive
- Support for 1, 2 or 4 monitors
- Optional on-site support packages



Common Configuration:

- **V3010:** Two 2.4 GHz Hex core processors, 32 GB DDR4 RAM, Flexible SATA III storage (up to 14 Hard Drives), Windows Operating System, DVD R/W and two 10/100/1000 Mbps LAN Ports
- **V3011:** Single 2.4 GHz 16-core processor, 64 GB DDR4 RAM, Flexible SATA III storage (up to 16 Hard Drives), Windows Operating System, DVD R/W and two 10/100/1000 Mbps LAN Ports



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Specifications:

SUPPLIED ACCESSORIES

Power Cable	1-3 USA Standard 117VAC, 3 prongs, 6ft
Keyboard	1 Basic Keyboard
Mouse	1 USB/PS2, Scroll Wheel, 3 Button
Restore	All original installation discs
Rail Kit	Rack mount systems only

SYSTEM

Processors	Dual Single Solver Scalable® 16 Core Processor
Internal Memory	64 GB DDR4 RAM 2133 MHz
Operating System	Windows 10 Professional x64 Edition or Windows 2019 Server
Operating System Storage	500 GB SSD with RAID 1 Option
Video Archive Capacity	Up to 84 TB SATA III
RAID Level	None, 0, 1, 5 or 6
Network Interface	2 Gigabit Ethernet RJ-45 (1000BaseT)
Auxiliary Interfaces	USB3.0 and 2.0 Ports
Maintenance	Optional: On-site Next Business Day
Maintenance Upgrade	4 Hour response 24x7 years 1 thru 5

VIDEO

VGA Processing Equivalent	Up to 3000 VGA/sec* or 300 Mbps
Resolution	QCIF to mega-pixel based camera spec
Display	1, 2 or 4 monitor outputs available (must be specified at time of order)

ENVIRONMENTAL

Operating	10° to 35° C (50° to 95° F), 8% to 90% (non-condensing)
Storage	-40° to 70° C (-40° to 158° F), 5 to 95% (non-condensing)

PHYSICAL

CASE B

Form Factor	Mid-Tower Desk Top with 4 Hot Swappable Storage Bays
Power Supply	650 watt
Cooling	1 x 92 mm & 1 x 120 mm Fans
Dimensions	(HxWxD) 16.7 x 7.8 x 18.3 in. (425 x 198 x 465 mm)
Unit Weight (gross)	Approximately 50 lbs (22.7 kg.)

CASE C

Form Factor	Mid-Tower Desk Top with 4 Hot Swappable Storage Bays
Power Supply	650 watt 1+1 Redundant
Cooling	1 x 120 mm (Rear) & 2 x 120 mm (Middle) Fans
Dimensions	(HxWxD) 16.7 x 8.7 x 24.4 in. (425 x 220 x 620 mm)
Unit Weight (gross)	Approximately 50 lbs (22.7 kg.)

CASE D

Form Factor	Mid-Tower Desk Top with 8 Hot Swappable Storage Bays
Power Supply	650 Watt
Cooling	1 x 120 mm (Rear) & 2 x 120 mm (Middle) Fans
Dimensions	(HxWxD) 16.7 x 8.7 x 24.4 in. (425 x 220 x 620 mm)
Unit Weight (gross)	Approximately 50 lbs (22.7 kg.)



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CASE E

Form Factor	Mid-Tower Desk Top with 8 Hot Swappable Storage Bays
Power Supply	650 Watt 1+1 Redundant
Cooling	1 x 120 mm (Rear) & 2 x 120 mm (Middle) Fans
Dimensions	(HxWxD) 16.7 x 8.7 x 24.4 in. (425 x 220 x 620 mm)
Unit Weight (gross)	Approximately 50 lbs (22.7 kg.)

CASE L

Form Factor	2U Rack Mount with 4 Hot Swappable Storage Bays
Power Supply	500 Watt
Cooling	4 x 80mm (front)
Dimensions	(HxWxD) 3.5 x 16.8 x 25.6 in. (89 x 426 x 650 mm)
Unit Weight (gross)	Approximately 60 lbs (27.3 kg.)

CASE M

Form Factor	2U Rack Mount with 4 Hot Swappable Storage Bays
Power Supply	650 Watt Redundant
Cooling	4 x 80mm (front)
Dimensions	(HxWxD) 3.5 x 16.8 x 25.6 in. (89 x 426 x 650 mm)
Unit Weight (gross)	Approximately 60 lbs (27.3 kg.) - Rack Mount

CASE N

Form Factor	2U Rack Mount with 8 Hot Swappable Storage Bays
Power Supply	400 Watt
Cooling	3 x 80 mm Hot-Swappable Cooling Fans
Dimensions	(HxWxD) 3.42 x 17.24 x 21.94 in. (87 x 438 x 557 mm)
Unit Weight (gross)	Approximately 65 lbs (29.5 kg.)

CASE O

Form Factor	2U Rack Mount with 8 Hot Swappable Storage Bays
Power Supply	500 Watt redundant
Cooling	3 x 80 mm Hot-Swappable Cooling Fans
Dimensions	(HxWxD) 3.42 x 17.24 x 21.94 in. (87 x 438 x 557 mm)
Unit Weight (gross)	Approximately 65 lbs (29.5 kg.)

CASE P

Form Factor	2U Rack Mount with 12 Hot Swappable Storage Bays
Power Supply	500 Watt Redundant
Cooling	3 x 80 mm Hot-Swappable Cooling Fans
Dimensions	(HxWxD) 3.42 x 17.24 x 21.94 in. (87 x 438 x 557 mm)
Unit Weight (gross)	Approximately 65 lbs (29.5 kg.)

CASE Q

Form Factor	3U Rack Mount with 16 Hot Swappable Storage Bays
Power Supply	875 watt Redundant
Cooling	4 x 80mm Fans
Dimensions	(HxWxD) 5.2 x 17 x 27.8 in. (132 x 432 x 655.3 mm)
Unit Weight (gross)	Approximately 65 lbs (29.5 kg.)



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Part Numbering:

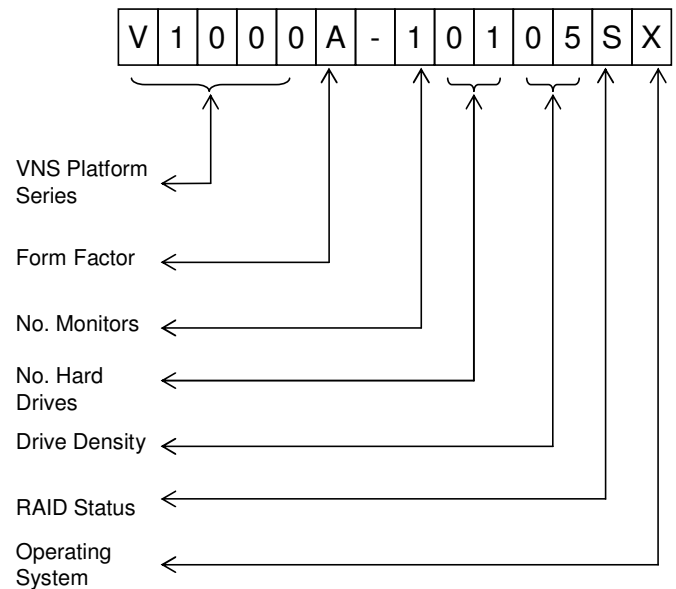
VNS Part numbers are 14 characters.

Platform:

- V1000: Entry Level NVR
- V2000: Mid-Range NVR
- V3000: Enterprise NVR

Form Factor:

- A: Mid-Tower Desktop
- B: Pedestal Desktop
- C: Pedestal Desktop with Redundant Power Supply
- D: Workstation Desktop
- E: Workstation with Redundant PS
- K: 2U Rack Mount Chassis
- L: 2U Rack Mount with 6 Hot Swap Drives
- M: 2U Rack Mount w/ 6Hot Swap Drives & Redundant PS
- N: 4U Rack Mount w/8 Hot Swap
- O: 4U Rack Mount w/8 Hot Swap Drives & Redundant PS
- P: 3U Rack Mount w/12 Hot Swap Drives & Redundant PS
- R: 4U Rack Mount w/16 Hot Swap Drives & Redundant PS



Number of Monitors: 1, 2, or 4

Number of Hard Drives: Quantity of Hard Drives used for Storage (01 = 1, 05 = 5, etc)

Drive Density: = 500 GB, 10 = 1000 GB, 20 = 2000 GB, 30 = 3000 GB, 40 = 4000 GB and 60 = 6000 GB

RAID Status:

- O: No RAID with RDX Drive
- P: RAID 0 with RDX Drive
- Q: RAID 5 with RDX Drive
- R: RAID 5
- S: No RAID
- T: RAID 0
- Y: RAID 6

Operating System:

- K: Windows 2019 Server
- L: Windows 2019 Server with a RAID 1 OS Drive
- X: Windows 10 Professional x64 Edition
- V: Windows 10 Professional x64 Edition with a RAID 1 OS Drive

Example:

V3011O-10640RL: Enterprise NVR in a rack mount case with redundant power supply, support for one monitor, 24,000 GB of video storage (6 x 4000 GB hard drives) configured as RAID 5 Array with Windows 2012 Server OS on a RAID 1.

*VGA VGA/sec processing dependent on video surveillance management software package Specifications subject to change without notice

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Not all cases are supported on all platforms