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ViconNet Shadow Elite Recording Servers

Top-of-the-line recording servers (NVRs) with internal RAID, redundant power supply and remote management capabilities



Powered by Dell and Intel Technology

Summary

The ViconNet Shadow Elite Recording Servers offer the best-in-class components and top-of-the-line processors to empower large-scale, enterprise surveillance operations. These models have internal RAID (support RAID 5 or 6), redundant power supply and an Integrated Dell Remote Access Controller (iDRAC) for fast and secure remote management. The recording servers are available in 1U or 2U rack models that give offer ample storage for any size system.

Product at a Glance

- Available in 1U or 2U rack versions
- Models with internal RAID; dual RPS; RAID 5/6
- Offers peace of mind with 5-year warranty with next business day, on-site support
- Safeguard your system with Secure Boot, TPM 2.0
- OpenManage Integrations: BMC Truesight, Microsoft® System Center, RedHat® Ansible® Modules, VMware® vCenter
- Remote Connections: IBM Tivoli® Netcool/OMNIbus, IBM Tivoli® Network Manager IP Edition, Micro Focus® Operations Manager I, Nagios® Core , Nagios® XI

Powered by Dell & Intel for Machines that Last

- Top-of-the-line components ensure long-lasting performance
- Future-proof your operation with the latest-gen technology

Installs in Minutes with Preloaded ViconNet Software

- ViconNet preloaded for installation in minutes

Backed by a 5-Year Warranty and 24/7 Support

- Includes next business day on-site support
- Covers all components (including HDD)

Specifications (VICON-CERTIFIED HARDWARE)

Model	Rack-Mount NERA-1UXXTF	Rack-Mount NERA-2UXXTF/F/S
Operating System:	Microsoft® Windows® 11† Enterprise IoT	
CPU/RAM:	Xeon®; 16 GB DDR5	Xeon; 32 GB DDR5
OS Drive:	2x 480 GB M.2 SSD (RAID-1)	2x 480 GB M.2 SSD (RAID-1)
Supported Data Drives:	4x 3.5″	12x 3.5″
Drives Configuration:	RAID 5	RAID 5, RAID 6
Max. Storage (Gross):	64 TB (4x 12 TB)	240 TB (12x 20 TB)
Networking:	2x 1GBE; 1x RJ-45 iDRAC	2x 1GBE; 1x RJ-45 iDRAC
Video:	1x mini DP, 1920 x 1200 (WUXGA) max using Nvidia graphics	
Additional Rear Panel I/O:	2x USB 3.0; 1x VGA; 1x Serial	1X USB 2.0; 1x USB 3.0; 1x VGA
Front Panel I/O:	1x USB 2.0; 1x Micro USB for iDRAC	1x USB 2.0; 1x Micro USB for iDRAC; VGA
Electrical		
Dual Redundant Power Supply:	600 W dual redundant	800 W dual redundant
Typical Power Consumption:	250 W (850 BTU)	400 W (1365 BTU)
Max. Power Consumption:	300 W (1000 BTU)	550 W (1800 BTU)
Mechanical		
Application:	Indoor	
Mounting:	Rack mount; 1U	Rack mount; 2U
Dimensions (HxWxD):	1.7 x 19 x 21.9 in. (42.8 x 483 x 556.2 mm)	3.5 x 19 x 28.4 in. (89 x 483 x 721.6 mm) with bezel
Weight:	29.17 lb (13.23 kg)	65.4 lb (29.7 kg)
Construction:	Steel and plastic	
Environmental		
Operating Temperature:	50° to 95°F (10° to 35°C)	73° to 95°F (23° to 35°C)
Relative Humidity:	5-95%, non-condensing	5-85%, non-condensing
Country of Origin:	Mexico	

†Windows 11 supplied with units shipped after October 2024. *DP/Mini-DP to HDMI adapters are included.

Camera to NVR Ratio for Recording

	Recording at 25/30 fps	Recording at 12/15 fps	Recording at 7 fps
Resolution/ViconNet Quality	Max Cameras/RAID Drive	Max Cameras/RAID Drive	Max Cameras/RAID Drive
320×240/CIF	120	120	120
640×480/4CIF	120	120	120
702×480/D1	120	120	120
800×600/0.5 MP	115	120	120
1280×720/1 MP	110	120	120
1280×1024/1.3 MP	100	120	120
1920×1080/2 MP	80	120	120
1600×1200/2 MP	80	120	120
2048×1536/3 MP	60	90	105
2288×1712/4 MP	54	81	97
2600×1900/5 MP	45	67	81
3840×2160/8 MP	30	45	54
4000×3000/12 MP	10	15	18

Ordering Information Scheme

Model	Mounting Type	HDD Storage	RAID	Model Number†
Recording Server preconfigured with ViconNet VMS system with internal storage	1U Rack-mount	Up to 43.2 TB	RAID 5	NERA-1UXXTF
	2U Rack-mount	Up to 180 TB	RAID 5-6	NERA-2UXXTF/F/S

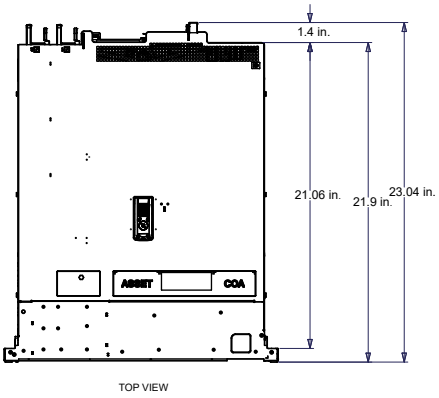
†XXX indicates amount of TB storage.

RAID NVR: 1U Rack-Mount Models

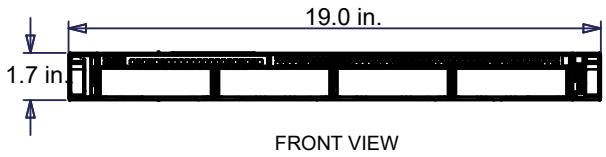
Each includes a five year NBD onsite KYHD (Keep Your Hard Drive) warranty with UL/FCC/CE and other required certifications.

Model Name	Storage
Windows 10 Enterprise	
NERA-1U22TF-N02	32 TB gross storage (21.6 TB usable storage); RAID
NERA-1U43TF-N02	64 TB gross storage (43.2 TB usable storage); RAID

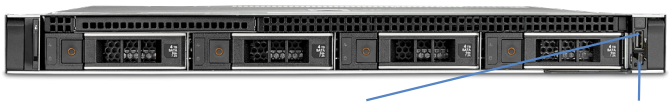
Dimensional Drawing

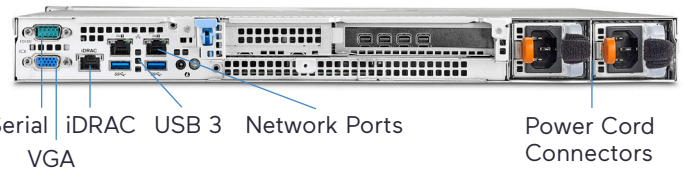






Front and Rear Panel Controls and Connectors



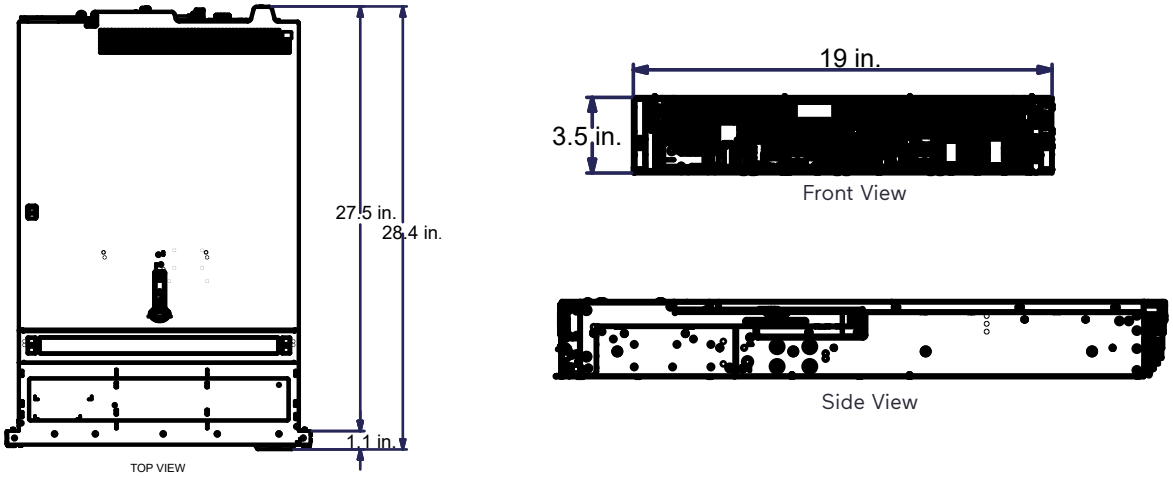


RAID NVR: 2U Rack-Mount Form Factor Models

Each includes a five year NBD onsite KYHD (Keep Your Hard Drive) warranty with UL/FCC/CE and other required certifications.

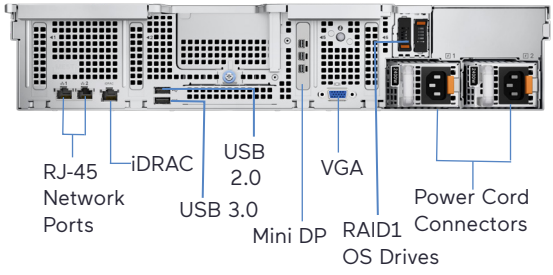
Model Name	Storage
Windows 10 Enterprise	
NERA-2U79TF-N02	96 TB gross storage (79.2 TB usable storage)
NERA-2U118TF-N02	144 TB gross storage (118 TB usable storage)
NERA-2U158F-N02	192 TB gross storage (158.4 TB usable storage)
NERA-2U180S-N02	240 TB gross storage (180 TB usable storage)

Dimensional Drawing



Front and Rear Panel Controls and Connectors





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