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ViconNet Shadow Elite Nucleus Servers

Best-in-class Nucleus Servers to ensure a reliable backbone for your ViconNet system

Powered by Dell and Intel Technology

DELL **intel**

Summary

The ViconNet Shadow Elite Nucleus Servers unite reliability, performance and convenience to create the perfect foundation for your ViconNet system. With top-of-the-line Dell components and redundant power supply in the rack-mount option, these servers give you confidence that your system will perform even in the most challenging installations. They are available in two form factors – a small tower and a 1U rack-mount option – so they can adapt seamlessly to your surveillance operation.

Product at a Glance

▸ Available as SFF desktop or a 1U rack-mount server

▸ Dual redundant power supply available on rack-mount server

▸ Install quickly with ViconNet pre-installed

▸ Powered by best-in-class Dell and Intel technology

▸ Offers peace of mind with 5-year warranty with next business day, on-site support

▸ Safeguard your system with SafeBIOS, SafeID, TPM 2.0

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 Nucleus 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	Small Form Factor NESA-SF000D	Rack-Mount NESA-1U000D
Operating System:	Microsoft® Windows® 11 Enterprise† IoT	
CPU/RAM:	Intel® Core® i3 12th Gen, 8 GB DDR4	Intel Core i7 9th Gen, 16 GB DDR4
OS Drive:	1x 256 GB SSD	
Data Drives Configuration:	SATA	
Networking:	2x 1GbE RJ-45	1x 1GbE RJ-45, Intel i219; 1x 10GbE RJ-45, Aquantia
Video:	Intel HD (3x DP*; 1x HDMI); supports quad 4K monitors	Nvidia® Quadro 4x mini-DP*; supports quad 4K monitors
Additional Rear Panel I/O:	4x USB 3.2 + 2x USB 2.0; 1x Line-in/Line-out; 1x Kensington Lock	2x USB Type-C; 1x Serial
Front Panel I/O:	1x USB 3.2 Type C + 1x USB 3.2 + 2x USB 2.0; 1x Headphone	1x USB 3.1 Type-C; 2x USB 3.1; 1x Headphone; 1x SD Card Reader
Electrical		
Power Supply:	200 W	550 W, dual redundant
Typical Power Consumption:	200 W (650 BTU)	100 W (350 BTU)
Max. Power Consumption:	300 W (1000 BTU)	220 W (750 BTU)
Mechanical		
Application:	Indoor	
Mounting:	Desktop	Rack mount; 1U
Dimensions (HxWxD):	11.42 in. (290.1 mm) x 3.65 in. (92.7 mm) x 11.53 in. (292.9 mm)	1.75 in. (44.5 mm) x 19 in. (483 mm) x 23.19 in. (589 mm) (with bezel)
Weight:	8.44 lb (3.83 kg)	42.6 lb (19.3 kg)
Construction:	Steel and plastic	
Environmental		
Operating Temperature:	50° to 113°F (10° to 45°C)	50° to 95°F (10° to 35°C)
Humidity:	20 to 80% relative, non-condensing	10 to 85% relative, non-condensing
Country of Origin:	Mexico	

†Windows 11 supplied with units shipped after October 2024. *DP to HDMI adapters included.
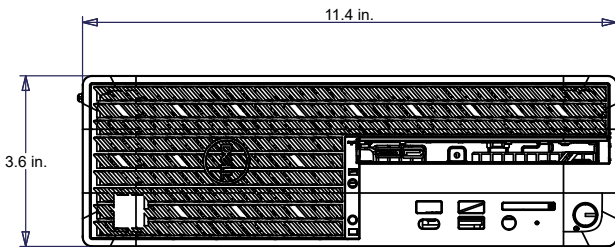
Ordering Information Scheme

Model	Mounting Type	HDD Storage	Model Number
Nucleus Server preloaded with ViconNet Nucleus server software; no data drives	Small Form Factor	None	NESA-SF000D-N00
	1U Rack-Mount	None	NESA-1U000D-N04

Nucleus Server: Small Form Factor Model
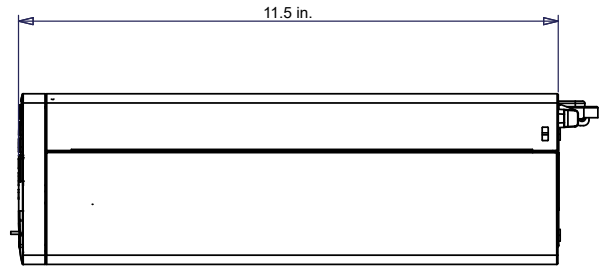
Includes five year NBD onsite KYHD (Keep Your Hard Drive) warranty with UL/FCC/CE and other required certifications.

Model Name	Storage
Intel i5 System	
NESA-SF000D-N00	No storage

Dimensional Drawing

11.4 in.

3.6 in.

FRONT VIEW

11.5 in.

SIDE VIEW

Front and Rear Panel Controls and Connectors

Headphone

USB 2
USB 3
USB-C

Line In/Line Out

Display (DP)

HDMI
USB 3.2
USB 2

Network Port

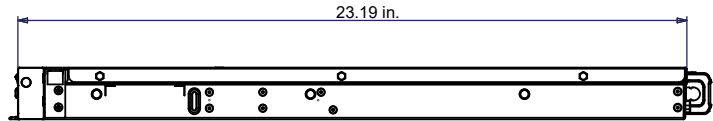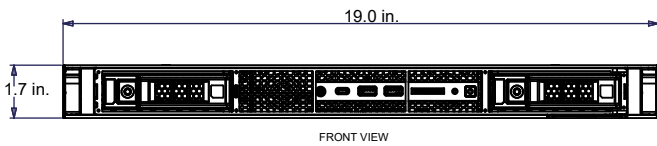Kensington Lock

Power Cord Connector
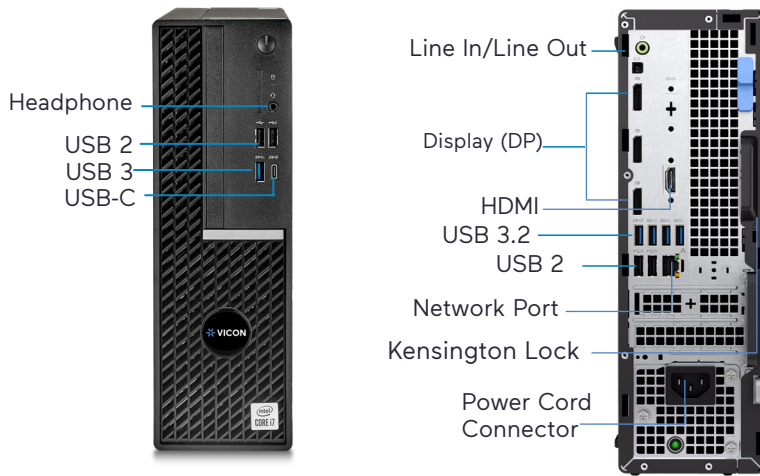
Nucleus Server: 1U Rack-Mount Model

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

Model Name	Storage
Intel Xeon System; Four Video Out	
NESA-1U000D-N04	No storage

Dimensional Drawing

19.0 in.

1.7 in.

FRONT VIEW

23.19 in.

Front and Rear Panel Controls and Connectors

Headphone   USB 3   SD Card Reader

USB-C

Video (mini-DP)   USB-C   Serial   Power Cord Connectors

Network Ports

Data Sheet Number: V239-21-02
Vicon Data Sheet Number: 8009-7239-21-02

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