8-Bay Unit

24-Bay Unit

⁜ Product at a Glance

- Robust professional server configured with ViconNet Video Management Software (VMS)
- Utilizes a dedicated RAID controller card offering RAID 5 or RAID 6 configuration
- Scalable from one to hundreds of recorders
- Support for third-party network cameras
- **Support for HD video**
- Windows operating system for enhanced security and reliability
- M-JPEG, MPEG-4 and H.264 compression
- High-capacity internal storage
- Hot swappable HDD
- Multi-language application
- Integration with third-party management software using software development kit (SDK)
- Advanced video authentication

The Vicon NVR Shadow is a high-capacity Network Video Recorder that enables you to simultaneously capture, view and store high-quality, high resolution voice, video and data for a comprehensive security solution. It provides scalable, internal RAID 5 or 6 storage for medium and large-scale installations. The NVR Shadow helps security organizations reduce system ownership costs, streamline operations and deliver more effective security.

Built for Reliability, Usability, and Low Cost of Ownership

Proven in daily operation in thousands of customer installations worldwide, Vicon® NVRs feature an embedded operating system designed for enhanced security and superior reliability. The ViconNet® software that powers the NVR Shadow, provides an open platform that allows integration with IP cameras, including megapixel cameras, encoders and IP edge devices from numerous, industry-leading manufacturers. The internal RAID 5 or 6 storage provides abundant capacity and the assurance that your data will always be secure and protected. The removable drive configuration (8-bay or 24-bay) makes it easy to hot-swap drives without having to remove the unit from the rack.

Powerful VMS Software

ViconNet Video Management System software provides outstanding functionality and an intuitive interface for administrators, security managers and system operators anywhere on the network. Multi-site users, in particular, benefit from the efficiency of enterprise management options.

Scalability

The NVR Shadow provides scalable, internal RAID 5 or 6 storage for medium and large-scale installations. The system is designed to scale to thousands of cameras with additional NVRs, Kollector® DVRs or any of the ViconNet VMS products.

NVR

Operating System:	Microsoft Windows 10, 32-bit and 64-bit.
CPU:	Intel® Xeon® E3 processor; Intel server board; LSI MegaRAID.
Memory:	8 GB (Windows 10).
Ports:	USBs (2 front, 4 rear), Monitor (DVI; adaptors provided), RJ-45. Serial (COM) connection is required, a USB to Serial converter is needed, VRS232-USB-CD.
Graphics:	Integrated Intel HD graphics.
Storage (Usable):	Internal RAID 5: 6.5, 13, 17, 38, 57, 95, 114 or 152 TB; Internal RAID 6: 5.7, 11, 14, 34, 51, 85,102 or 136 TB depending upon model (38,57,95,114, 152/34,51,85,102,136 TB are 24-bay models). Note that Vicon certifies DVR and NVR drives on a continual basis, therefore capacities will change frequently.
Network Interface:	100/1000 Base T Ethernet interface on main board.
Certifications:	FCC Class A.

Electrical

Input Voltage:	105-240 ±10% VAC, 50/60 Hz.
Current:	8-Bay: 8 A @ 115 VAC; 4 A @ 230 VAC. 24-Bay: 15 A @ 115 VAC; 7 A @ 230 VAC.
Power Consumption:	8-Bay: 500 W nominal. 24-Bay: 1200 W nominal. Includes a redundant power supply (80+ platinum).
Heat Output:	8-Bay: 1750 btu/hour. 24-Bay: 4200 btu/hour.
Power Connector:	Standard 3-conductor female socket.

Note: Vicon requires the use of uninterruptible power supply systems (UPS) to prevent voltage fluctuations that can affect operation and cause damage to the equipment. Failure to comply voids the warranty.

Mechanical

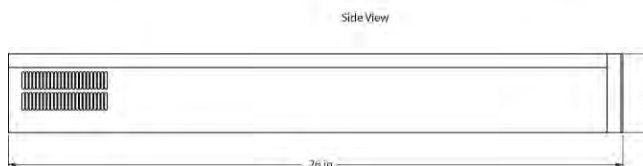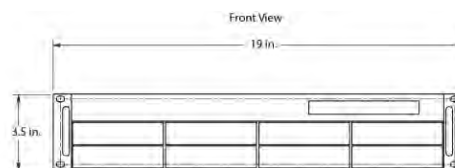|	
Application:	Indoor.
Mounting:	Standard 19 in. (483 mm) rack mount and stackable. 8-Bay: 2 RU height; 24-Bay: 4 RU height.
Dimensions:	8-Bay: 3.5" (89 mm) H x 19" (483 mm) W x 26" (660 mm) D, including ears; 24-Bay: 6.9 in. (176 mm) H, 26.8" (680 mm) D.
Weight:	8-Bay: 46.3 lb (21 kg); 24-Bay: 82.0 lb (37 kg).
Construction:	Steel case and plastic.

Environmental

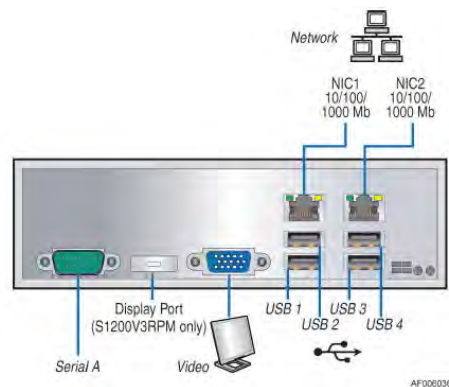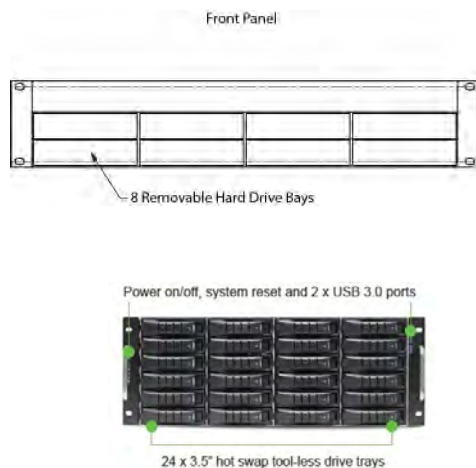|	
Operating Temperature:	
	32° to 104°F (0° to 40°C).
Humidity:	Up to 95% relative, non-condensing.

Warranty

3 years parts and labor.

Dimensional Data

8-bay unit shown; 24-bay unit is 7 in. in height and 26.8 in. depth.

Controls and Connectors

Note that mother boards are subject to change and the current rear panel may differ slightly but will be similar.

Intel and Xeon are trademarks or registered trademarks of Intel Corporation.
Microsoft and Windows are registered trademarks of Microsoft Corporation.

VICON

www.vicon-security.com

VICONNET NVRS SHADOWS

All models are rack-mount Network Video Recorders preloaded with ViconNet Version 8 software with internal RAID 5 or 6 storage.

Models

	Usable Storage	Model Number
Intel Xeon E3 Processor	6.5 TB RAID 5	VPK-6.5TBXV8-A-R5
	13 TB RAID 5	VPK-13TBXV8-A-R5
	17 TB RAID 5	VPK-17TBXV8-A-R5
	38 TB RAID 5	VPK-38TBXAV8-A-R5
	57 TB RAID 5	VPK-57TBXAV8-A-R5
	95 TB RAID 5	VPK-95TBXAV8-A-R5
	114 TB RAID 5	VPK-114TBXAV8-A-R5
	152 TB RAID 5	VPK-152TBXAV8-A-R5
	5.7 TB RAID 6	VPK-5.7TBXV8-A-R6
	11 TB RAID 6	VPK-11TBXV8-A-R6
	14 TB RAID 6	VPK-14TBXV8-A-R6
	34 TB RAID 6	VPK-34TBXAV8-A-R6
	51 TB RAID 6	VPK-51TBXAV8-A-R6
	85 TB RAID 6	VPK-85TBXAV8-A-R6
	102 TB RAID 6	VPK-102TBXAV8-A-R6
	136 TB RAID 6	VPK-136TBXAV8-A-R6

Options and Accessories

	Description	Model Number
	Network Keypad. Used to control ViconNet digital video management systems, including Virtual Matrix Display Controller (VMDC); connection via USB.	VN-KEYPAD