

## NVR Shadow Network Video Recorder with Internal RAID



8-bay unit

*(For illustrative purposes only, units supplied may vary in appearance)*



- 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 HD video
- Support for third-party network cameras
- Embedded Windows® operating system for enhanced security and reliability
- M-JPEG, MPEG-4 and H.264 compression
- High-capacity internal storage
- Multi-language application
- Advanced video authentication
- Integration with third-party management software using software development kit (SDK)

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. Each NVR (except 92TB) is provided with a hot-swap drive.

### **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**

<b>Operating System:</b>	Microsoft® Windows® 7.
<b>CPU:</b>	Intel® Core™ i5 processor 3.33 GHz*.
<b>Memory:</b>	2-4GB
<b>DVD Drive:</b>	8-Bay: Internal DVD drive.
<b>Ports:</b>	USBs, Monitors (DVI-I and HDMI), RJ-45. If RS-232/Serial (COM) connection is required, a USB to Serial converter is needed, VRS232-USB-CD.
<b>Graphics:</b>	Integrated Intel HD graphics.
<b>Storage (Usable):</b>	RAID5: 6-92TB RAID6: 5-84TB depending upon model. Note that Vicon certifies DVR and NVR drives on a continual basis, therefore capacities will change frequently. Models above are based on 8 or 24 bay units filled with 1, 2, 3 4 & 6TB drives.
<b>Network Interface:</b>	100/1000 Base T Ethernet interface on main board.
<b>Certifications:</b>	FCC Class A.

\* Intel Xeon® Core 2 Quad 2.4 GHz available upon request.

**Electrical**

<b>Input Voltage:</b>	105-240 ±10% VAC, 50/60 Hz.
<b>Current:</b>	8-Bay: 1.75 A @ 115 VAC; 0.875 A @ 230 VAC. 24-Bay: 8.8 A @ 115 VAC; 4.4 A @ 230 VAC.
<b>Power Consumption:</b>	8-Bay: 202 W nominal. 24-Bay: 1010 W nominal. Includes a redundant power supply.
<b>Heat Output:</b>	8-Bay: 707 btu/hour. 24-Bay: 3535 btu/hour.
<b>Power Connector:</b>	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**

<b>Application:</b>	Indoor.
<b>Mounting:</b>	Standard 19 in. (483 mm) rack mount and stackable.
<b>Dimensions:</b>	8-Bay: 3.5" (89 mm) H x 19" (483 mm) W x 28" (711 mm) D; 24-Bay: 7 in. (176 mm) H.
<b>Weight:</b>	8-Bay: 40.0 lb (18.2 kg); 24-Bay: 64.0 lb (29 kg).
<b>Construction:</b>	Steel case and plastic.

**Environmental**

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

**Warranty**

3 years parts and labour.

Features and specifications are subject to change for further improvement without any notice

Some of the supported devices listed above are not manufactured by Vicon. It is therefore possible that the protocols have been changed from the original manufacturer or are in different configurations from the units previously tested by Vicon.

Vicon recommends that a compatibility bench test prior to installation of the complete system is carried out to ensure complete functional requirement. Vicon will not be liable for any installation costs or lost revenues in the event of any compatibility problems where they occur.

All models are rack-mount Network Video Recorders preloaded with ViconNet Version 7 software with internal RAID 5 or 6 storage.


### Models

Model	Size	Drive Size	RAID 5/6	Hotswap?	Storage
VPK-6TBV7-R5	8-bay	1TB	5	Yes	6TB
VPK-12TBV7-R5	8-bay	2TB	5	Yes	12TB
VPK-18TBV7-R5	8-bay	3TB	5	Yes	18TB
VPK-24TBV7-R5	8-bay	4TB	5	Yes	24TB
VPK-44TBV7-R5	24-bay	2TB	5	Yes	44TB
VPK-66TBV7-R5	24-bay	3TB	5	Yes	66TB
VPK-88TBV7-R5	24-bay	4TB	5	Yes	88TB
VPK-92TBV7-R5	24-bay	4TB	5	No	92TB
VPK-132TBV7-R5	24-bay	6TB	5	Yes	132TB
VPK-5TBV7-R6	8-bay	1TB	6	Yes	5TB
VPK-10TBV7-R6	8-bay	2TB	6	Yes	10TB
VPK-15TBV7-R6	8-bay	3TB	6	Yes	15TB
VPK-20TBV7-R6	8-bay	4TB	6	Yes	20TB
VPK-42TBV7-R6	24-bay	2TB	6	Yes	42TB
VPK-63TBV7-R6	24-bay	3TB	6	Yes	63TB
VPK-84TBV7-R6	24-bay	4TB	6	Yes	84TB

Other configurations are available by using less than the full capacity of drives. Above list is a guide only.

\* Intel Core i5 3.3GHz processor supplied as standard, Intel Xeon® Core 2 Quad 2.4 GHz available upon request.

### Options and Accessories

	Description	Model Number
	Network Control Keypad. Used to control ViconNet digital video management systems, including Virtual Matrix Controller (VMC) over an IP network or serial connection.	V1500X-SCCS-1