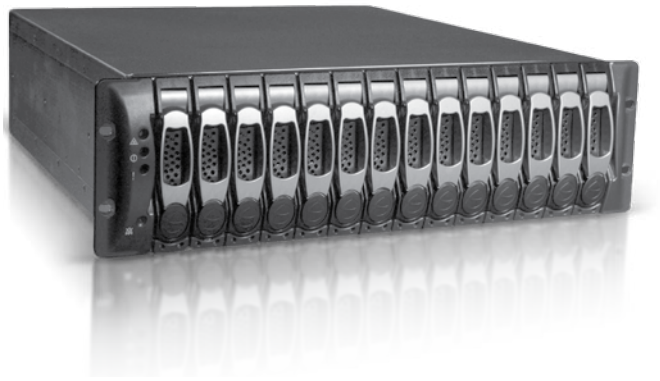
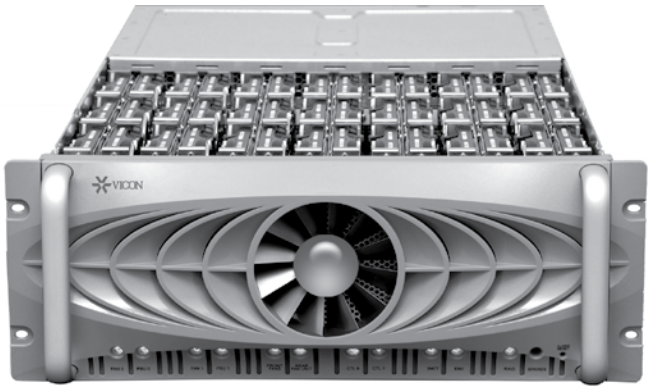
VN-SAN
Storage Area Network Device





- Enterprise-class, iSCSI storage device can be located locally or remotely via network connection
- Scalable storage with units from 8 to 42 drive bays
- Energy-efficient idle mode conserves power, but provides near-instantaneous access to data when needed
- Ideal solution for primary or backup storage
- Preconfigured from factory to support up to 4 ViconNet DVRs or NVRs
- Hot-swap failed drives in an instant with no data loss

Vicon® VN-SAN Storage Area Network devices provide a high-density storage solution that can be used for primary and/or backup data storage. Using the iSCSI standard, the VN-SAN units maybe located long distances from the ViconNet® NVRs or DVRs over a standard Ethernet connection. No special interface devices or cabling are required, the units operate over standard CAT-5E or CAT-6 cabling, switches and routers. Data is secure and readily available using the VN-SAN device.

Scalable, Flexible and Secure

The VN-SAN is offered in 8, 14 and 42-bay systems. Total storage capacity is from 6.5 to 68 TB of usable storage. If a drive fails, it is automatically replaced using a pooled spare drive, thus minimizing any effect to your operation. The failed drive can then be hot-swapped with a good drive to future protection.

The iSCSI standard has no distance limitations so your data storage can be located at a safe, secure location miles away from the recording site. Each VN-SAN unit has dual-redundant power supplies and battery backup providing additional peace-of-mind.

Easily Installed, Configured and Maintained

The VN-SAN units are rack-mountable and require 3 RU (8 and 14-bay units) or 4 RU (42-bay unit) vertical space. The units are preconfigured at the factory for RAID 5 storage and set up to support up to 4 NVRs or DVRs each. No special power requirements are necessary, each unit operates with 115/230 VAC input power. The units incorporate advanced features such as dual RAID engines, a high performance cache mirroring ASIC, and active/active failover to deliver uncompromising availability and reliability.

Once configured, minimal maintenance is required. The advanced mechanical design of the units provides superior cooling for optimal thermal operation. Built-in system management software provides an intuitive interface for the operator. The units are operating system independent, no special software drivers or server-based management software is required. In the event of a failure, an alarm is generated notifying you of the failure. If the system has pooled spare drives set up, a pooled drive is automatically rebuilt and replaces the failed drive.

Energy Savings

The VN-SAN units employ AutoMAID® technology. AutoMAID (Massive Array of Idle Disks) allows the units to place their disk drives into an idle state to conserve energy, yet provide near-instantaneous access to data.

Operational

Usable Storage Capacity:	8-bay: Up to 14 TB. 14-bay: Up to 22 TB. 42-bay: Up to 68 TB.
Supported RAID Levels:	0, 1, 1+0, 4, 5 and 6.
Alarms:	Audible alarm signal when active device on system fails or critical operating parameters of unit are violated.
User Controls:	Browser-based GUI interface used to set up, maintain and monitor system.
Cache:	Up to 2 GB per controller.
iSCSI Transfer Rate:	1 GB/sec per iScSI port.
Input/Output Connectors:	2 iSCSI 1 GB ports. RJ-45 Ethernet port. RS-232 9-pin serial port connector. 2 fiber SFP LC host.
Status Indicators:	LEDs for controller, fan module, power supply modules, and drive trays.
Certifications:	FCC Class A; CE; UL.

Environmental

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

Warranty

3 years parts and labor.

Electrical

Input Voltage:	115/230 VAC, 50/60 Hz with auto-switching/ auto-ranging.
Current:	8/14-bay: 4 A @ 115VAC; 2 A @ 230 VAC. 42-bay: 4.5 A @ 115VAC; 2.5 A @ 230 VAC.
Power Consumption:	8/14-bay: 460 W. 42-bay: 518 W.
Heat Output:	8/14-bay: 1,610 btu/hour. 42-bay: 1,813 btu/hour.
Power Connector:	Standard 3-conductor female socket.
Power Supplies:	Dual-redundant hot-swappable internal power supplies (8/14, 400 W; 42, 760 W). Battery backup.

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. Mounting brackets and rails included.
Dimensions:	8/14-bay: Height: 5.25 in. (133 mm) 3 RU. Width: 17 in. (432 mm). Length: 20.5 in. (521 mm). 42-Bay: Height: 7 in. (178 mm). Width: 17 in. (432 mm). Length: 30.5 in. (775 mm).
Weight (without drives):	8-bay: 45 lb. (20.4 kg) approximately. 14-bay: 60 lb. (27.3 kg) approximately. 42-bay: 73 lb. (33 kg) approximately.

Ordering Information

Description	Model Number
8-bay ViconNet SAN Storage unit. Includes (8) 1000 GB drives, 6.5 TB usable storage, configured for RAID 5.	VN-SAN-8-1000
8-bay ViconNet SAN Storage unit. Includes (8) 2000 GB drives, 14 TB usable storage, configured for RAID 5.	VN-SAN-8-2000
14-bay ViconNet SAN Storage unit. Includes (14) 1000 GB drives, 12.3 TB usable storage, configured for RAID 5.	VN-SAN-14-1000
14-bay ViconNet SAN Storage unit. Includes (14) 2000 GB drives, 22 TB usable storage, configured for RAID 5.	VN-SAN-14-2000
42-bay ViconNet SAN Storage unit. Includes (42) 1000 GB drives, 36 TB usable storage, configured for RAID 5.	VN-SAN-42-1000
42-bay ViconNet SAN Storage unit. Includes (42) 2000 GB drives, 68 TB usable storage, configured for RAID 5.	VN-SAN-42-2000

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Specifications subject to change without notice.