



ViconNet High Capacity RAID Storage System with iSCSI Protocol

- Preconfigured for RAID 5 with storage capacities of 3.3 to 36 TB
- Uses iSCSI protocol for faster data transfer over long distances on an IP network
- Compatible with ViconNet DVRs and NVRs
- Uses regular Ethernet CAT-5E and CAT-6 cabling and hardware
- Can be located away from DVR/NVR location - up to 25 times farther than a traditional SCSI interface
- Multiple DVRs/NVRs may be connected to a single device over the network

ViconNet® Storage Area Network (VN-SAN) systems are intelligent data storage units that can be connected to any ViconNet NVR or Kollector® DVR via a LAN or WAN to provide additional storage capacity for the system. VN-SAN systems provide added system design flexibility since no longer does the storage unit have to be physically located in the same place as the recording device. They are available in a variety of storage sizes from 3.3 to 36 TB and are preconfigured for RAID 5.

VN-SANs use the iSCSI protocol, which enables the units to be located remotely from the recording devices, while maintaining a data transfer rate of up to 1 GB/second. Using a VN-SAN system as part of a storage network, enables you locate it in

a data center or other location rather than at the site of the recording device. In addition, multiple DVRs and NVRs can make use of a single VN-SAN unit, providing for savings in both the unit cost and the physical space required. Connection uses regular Ethernet cabling (CAT-5E/ CAT-6) and hardware.

The VN-SAN units are offered with 8, 14 or 42 SATA hard drive slots depending upon the amount of storage required. All provide dual-redundant power supplies and battery back-up. The units are housed in a rugged enclosure that is rack-mountable. The front panel features LED status indicators for the main components of the unit. The back panel provides connections for network, peripheral devices and power.

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Technical Specifications

OPERATING

User Interface:	Browser-based GUI interface used to set up, maintain and monitor system.
Usable Storage Capacity:	8-bay Units: 3.3 or 6.5 TB; 14-bay Units: 12.3 TB; 42-bay Unit: 36 TB.
Supported RAID Levels:	RAID level 0, 1, 1+0, 4, 5 and 6.
Controller Cache:	Up to 2 GB.
iSCSI Transfer Rate:	1 GB/sec per iSCSI port.
I/O Connectors:	2 iSCSI 1 GB ports; RJ-45 Ethernet port; RS-232 9-pin serial port connector; 2 fiber SFP LC host.
Power Connector:	Standard 3-conductor socket.
Status Indicators:	LEDs for controller, fan module, power supply modules, and drive trays.
Hard Drive Bays:	8, 14 or 42 standard SATA channels. Supports hot-swapping capability.

ENVIRONMENTAL

Operating Temperature Range:	32 to 104° F (0 to 40° C).
Operating Humidity Range:	5 to 95% relative, non-condensing.

ELECTRICAL

Input Voltage:	115/230 VAC, 47-63 Hz, with auto-switching and auto-ranging.
Current:	8/14-bay: 4 A @ 115 VAC, 2 A @230 VAC; 42-bay: 4.5 A @ 115 VAC, 2.5 A @ 230 VAC.
Power Consumption:	8/14-bay: 460 W; 42-bay: 518 W.
Heat Equivalent:	8/14-bay: 26 btu/min (6.6 kg-cal/min); 42-bay: 29.5 btu/min (7.4 kg-cal/min).
Power supplies:	Dual-redundant hot-swappable internal power supplies- (8/14: 400 W; 42: 760 W). Battery backup.
Certifications:	UL; CE.

MECHANICAL

Mounting:	Desk or rack mounted in a standard EIA compliant rack, 19 in. (483 mm) wide opening. Rack height is 5.25 in. (133 mm) or 3 RU for 8/14-bay unit and 7 in. (178 mm) or 4 RU for 42-bay unit. Rail kit provided.
Dimensions:	Height: 8/14-bay: 5.25 in. (133 mm); 42-bay: 7.0 in. (178 mm). Width: 8/14-bay and 42-bay: 16.9 in. (483 mm). Depth: 8/14-bay: 20.5 in. (711 mm); 42-bay: 29.5 in. (749 mm).
Weight (w/o drives):	8-bay: Approx. 45 lb (20.4 kg); 14-bay: Approx. 60 lb (27.3 kg); 42-bay: Approx. 73 lb (33 kg).

Models, Product Codes and Descriptions

Model No.	Product Code	Description
VN-SAN-8-500	9704-30	ViconNet RAID Storage; includes eight 500 GB hot-swappable drives (3.3 TB usable storage) configured for RAID 5.
VN-SAN-8-1000	9704-40	ViconNet RAID Storage; includes eight 1000 GB hot-swappable drives (6.5 TB usable storage) configured for RAID 5.
VN-SAN-14-1000	9704-20	ViconNet RAID Storage; includes fourteen 1000 GB hot-swappable drives (12.3 TB usable storage) configured for RAID 5.
VN-SAN-42-1000	9704-00	ViconNet RAID Storage; includes forty-two 1000 GB hot-swappable drives (36 TB usable storage) configured for RAID 5.