DATA/SPEC SHEET







- Configured with ViconNet® Video Management Software (VMS)
- Scalable from one to hundreds of recorders
- Support for HD video and megapixel cameras
- Real-time hybrid recording of up to 16 analog cameras and up to 8 additional IP cameras
- 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
- Removable hard drive option for ease of maintenance
- Multi-language application
- Advanced video authentication
- Integration with third-party management software using software development kit (SDK)

The Kollector® Force combines a robust video management and storage solution that enables you to simultaneously capture, view and store high-quality, high resolution voice, video and data for a comprehensive security solution. The Force helps security organizations reduce system ownership costs, streamline operations and deliver more effective security.

The Force has the power to bridge the transition from analog to IP camera installations. It can record 16 analog cameras and encode the analog inputs for use by the VMS. An additional 8 IP channels can also be recorded, and managed by the system, all with real-time frame rate at 4CIF resolution.













Built for Reliability, Usability, and Low Cost of Ownership

Proven in daily operation in thousands of customer installations worldwide, the Force features an embedded operating system designed for enhanced security and superior reliability. The ViconNet software that powers the Force, provides an open platform that allows integration with IP cameras, including megapixel cameras, encoders and IP edge devices from numerous industry-leading manufacturers.

Powerful Software

ViconNet 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

A Kollector Force SAN model is available that has external iSCSI RAID device connection capability to extend total recording time well beyond the limits of the internal storage. The system is designed to scale to thousands of cameras with additional Kollector Force models or any of the ViconNet VMS products. Add storage or additional capability as it's needed when it's needed.

KOLLECTOR FORCE

SPECIFICATIONS

Video Performance

Video Level Input: 1.0 V peak-to-peak (140 IRE) nominal.

Luminance: 100 IRE +/- 15%.
Sync: 40 IRE +/- 15%.
Colorburst: 40 IRE +/- 15%.

Video Input Impedance: 75 ohms on BNC connectors.

Video Formats

Supported: NTSC, PAL, EIA and CCIR.

Video Recording Rate: 16 simultaneous channels @ 240 or 480 frames

per second, maximum. 30 fps per channel,

maximum

Local Video Quality: Local analog camera inputs: Selectable using

a 4-position bar, from HCIF to 4 CIF.

IP cameras: 10 user selectable resolution capture sizes (camera dependent).

Microphone should be 0 dB, 32 KHz

Audio Inputs: Microphone should be 0 dB, 32 KHz

bandwidth, 600 ohm impedance, 2 V RMS (1 V p-p) output.

Audio Sampling Rate: 8 KHz/sec/channel.

Audio Data

Storage Rate: Approximately 0.7 GB/day/microphone.

Camera to Recorder Analog Input Video Transmission Distance

(coaxial cable distance): 1000 ft (305 m) nominal.

VGA Monitor Output: SVGA, True-Color Mode with a resolution of

1024 x 768 or 1280 x 1024.

VGA Video

Panel Indicators:

Display Modes: Multi-screen display mode for both live and video playback of 1, 4, 6, 9, 16 cameras.

1 blue power LED used for power status indication, 3 red LED used for LIDD indication.

indication. 1 red LED used for HDD indication. 16 green LEDs used for camera detection and

recording status.

Panel Key Lock: Key lock provided on front panel to secure all

controls.

Analog Video Inputs: 16 BNC-F connectors.

Monitor Output: Dual output (1 VGA/1 DVI) connectors.

PTZ Control Port: One 4-pin terminal block serial port using RS-422 protocol for all 16 channels. Also.

RS-422 protocol for all 16 channels. Also connections available through the 16

connectors.

Sensor Input Port: 16 NO/NC connectors, software selectable.

Each alarm input is automatically configured as a normally opened (NO) or normally closed

(NC) trigger.

Analog Video Output: S-Video connector and provided adapter

cable

16 x 4 Analog Matrix: Allows switching any of the local inputs to 4 local outputs. Switcher is controlled through

software locally and over the network. Also can be controlled as part of a macro.

Electrical

Input Voltage: 120-230 ±10% VAC, 50/60 Hz.

Current: 1 A @ 115 VAC; 0.5 A @ 230 VAC.

Power Consumption: 120 W nominal. Heat Output: 420 btu/hour.

Power Connector: Standard 3-conductor female socket.

CPU: Intel® Core™ i3.
Memory: 2 GB minimum.

OS: Microsoft® Windows® 7 Embedded.
Storage: 1000 to 8000 GB, depending on model.

DVD Drive: Internal DVD drive.

Network Port:RJ-45 jack. 100/1000 Mbps.Keyboard Port:5-pin DIN jack (PS2) or USB.Mouse Port:5-pin DIN jack (PS2) or USB.

USB Ports: 6 (2 front, 4 rear).

Audio Input: 16 input connectors, software selectable.

Certifications: UL, CE and FCC, Class A.

Mechanical

Application: Indoor

Mounting: Standard 19 in. (483 mm) rack mount and

stackable, 3RU height.

Dimensions: 5.25" (133.4 mm) H x 18.75" (476 mm) W x

21.25" (540 mm) D, including connectors.

Weight: 37.0 lb (17 kg).

Construction: Steel case and hardware.

Environmental

Operating Temperature: 32° to 104° F (0° to 40° C).

Humidity: Up to 95% relative, non-condensing.

Ideal Room Temperature: 66° to 75°F (19° to 25° C).

Ideal Room Humidity:

Maximum Room

emperature: 50° to 86°F (10° to 30° C).

Temperature: Storage Temperature

Range:

00 10 00 1 (10 10 00 0).

-4 to 158° F (-20 to 70° C) maximum.

Up to 80% relative, non-condensing.

Warranty

3 years parts and labor.

Data Sheet Number: V112-22

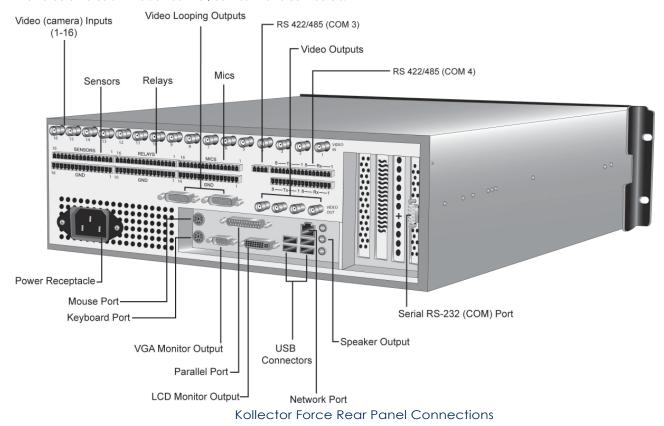
Dated: 7/2015

Vicon Data Sheet Part Number: 8009-7112-22-00 Specifications subject to change without notice.

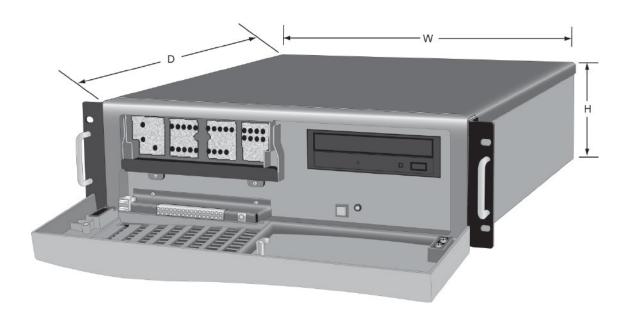
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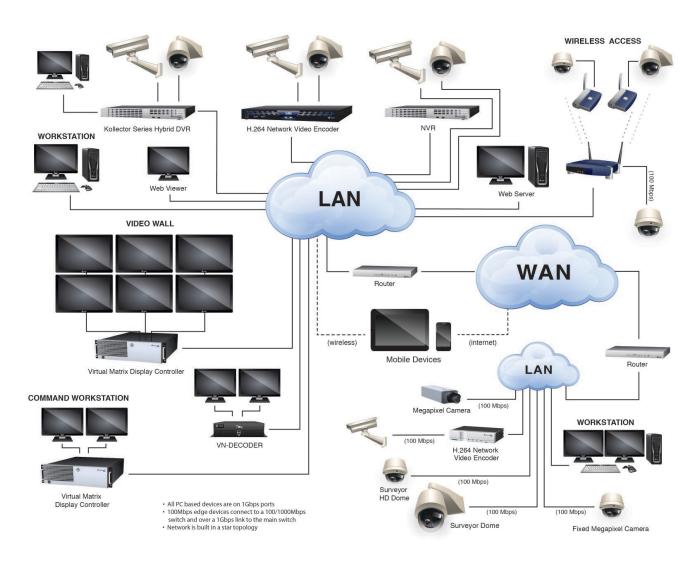
SPECIFICATIONS

Note that motherboards are subject to change and the current rear panel may differ slightly but will be similar. The Kollector Force SAN version is similar, but has 2 RJ-45 connectors.



Dimensional Data





Typical ViconNet System Configuration with Kollector DVR

ORDERING INFORMATION

All models are 16-channel, hybrid DVRs preloaded with ViconNet Version 8 software with an internal DVD drive and 16-channel audio.

	fps at 4CIF	Model Number (See Notes)
	240 @ ViconNet MPEG-4/120 @ H.264; no internal hard drives for storage	KF2-SAN-V8
Kollector Force	240 @ ViconNet MPEG-4/120 @ H.264	KF2-XTBV8
	480 @ ViconNet MPEG-4/240 @ H.264; no internal hard drives for storage	KF3-SAN-V8
	480 @ ViconNet MPEG-4/240 @ H.264	KF3-XTBV8

Notes:

- XTB indicates the hard drive size in TB. For example, a 480 fps Kollector Force with removable hard drive and 1 TB storage would have a model number of: KF3-1TBV8.
- An external storage option is available. The "SAN" models are configured for use with external SAN-RAID storage.

Options and Accessories

	Description	Model Number
in in it	Network Control Keypad. Used to control ViconNet digital video management systems, including Virtual Matrix Display Controller (VMDC) over an IP network or serial connection.	V1500X-SCCS-1
	External Storage Options. Vicon offers a variety of external storage options using SAN and other technologies. Refer to the website for more information.	VN-SAN series