KOLLECTOR *STRIKE*

16-Channel Hybrid
Digital Video Recorder

Features

- Fully featured DVR simultaneously records and plays 16 channels of digital video and 4 channels of audio in a compact 1 RU rack-mount enclosure
- Supports 16 analog camera inputs and an additional 8 IP camera inputs
- Powered by ViconNet Version 5.6 software and is fully compatible with ViconNet's open-platform support of IP and megapixel cameras from other manufacturers
- H.264-ready
- Provides recording rates of 120, 240 and 480 fps across 16 channels, depending upon model

Overview

The Kollector® Strike is a 16-channel hybrid digital video recorder capable of recording up to 16 analog and up to 8 digital IP cameras over a standard 100/1000Base-T network. It is powered by ViconNet® Version 5.6 software and offers the following:

- 16-channel continuous video recording
- 16-channel continuous video playback
- 16-channel continuous video transmission to the network
- 16-channel continuous video viewing from the network
- User selectable video archiving of pre-existing recordings

The unit is housed in a 1 RU rack-mount enclosure and is available in models with recording rates of 120, 240 or 480 frames per second (fps) and storage capacities of 500 to 3000 GB (3 TB). See Section II for a complete listing of models offered.

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Video Capability

The Kollector Strike employs MPEG-4 and JPEG compression, and is H.264-ready. The user has the ability to select the resolution level without requiring a restart of the application or the recorder.

There are 4 levels of resolution with 2 levels of compression (Normal, Full) comprising 8 quality levels total, for the analog cameras:

1. Frame.
2. Field.
3. CIF.
4. HCIF

There are 10 resolution capture sizes (camera dependent) for the IP cameras that the Strike can record:

1. 360 x 122 pixels, 432 x 146, PAL.
2. 360 x 244 pixels, 432 x 293, PAL.
3. 720 x 244 pixels, 864 x 293, PAL.
4. 720 x 488 pixels, 864 x 586, PAL.
5. 1280 x 720 pixels (0.9 MP)
6. 1280 x 1024 pixels (1.3 MP)
7. 1600 x 1200 pixels (2.0 MP)
8. 1920 x 1080 pixels (2.1 MP)
9. 2048 x 1536 pixels (3.1 MP)
10. 2592 x 1944 pixels (5.0 MP)

The Strike uses an MD5 type video authentication algorithm. MD5 is a standard authentication that is based on a 128-bit message used to verify data integrity.

Open Platform

The ViconNet software that powers the Strike, provides an open platform that allows integration with IP cameras, including megapixel cameras, encoders and IP edge devices from numerous industry-leading manufacturers.

The following manufacturers are compatible with ViconNet and the Kollector Strike. This list is updated frequently, so check with your representative or the factory for additional manufacturers.

- ACTi Corporation
- AXIS Communications, Inc.
- Panasonic Corporation
- Sony Corporation of America

Megapixel cameras:

- Arecont Systems, Inc. (Arecont Vision)
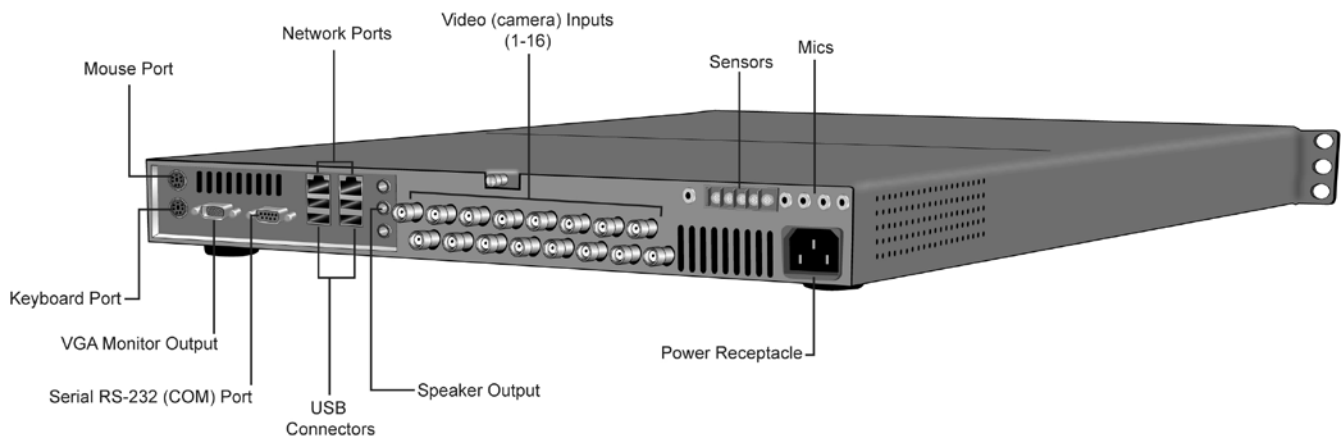- IQinVision

DVR Capabilities

The ViconNet software provides a GUI capable of complete recorder configuration and operation. This capability is provided for setup of monitoring, recording and playback. Sub-features such as defined areas for video display and control, toolbars, site and device lists, video controls, and dialog areas are also included.

The Strike provides simultaneous display, playback, distribution and archive of multiple channels of video and audio. Sixteen analog cameras and four audio inputs may be connected directly to the Strike. IP cameras and IP encoded video from analog cameras connected to encoder edge devices are connected to the Strike via the network. This also includes analog cameras connected to other recorders on the network.

The Strike has external iSCSI RAID device connection capability to extend the total recording time beyond the limits of the specific internal hard drive.

The Strike has an Intel® Core™ 2 Duo 2.80 GHz CPU with a minimum of 1 GB RAM running ViconNet Version 5.X software. The front panel contains a key-locked user door making accessible a DVD drive and internal operating system hard drives. A power switch, keyboard port and mouse port are also provided. The rear panel contains video input ports, power receptacle, mouse port, keyboard port, USB connectors, serial port, 2 RJ-45 network connectors, VGA monitor port, audio inputs/output, 4 microphone ports and 4 sensor ports.

Kollector Strike Rear Panel Connections

Video Specifications

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 @ 120, 240 or 480 frames per second, maximum. 30 fps per channel, maximum.
Local Video Recording Resolution:	520 horizontal TV lines maximum at 720 x 488 pixel palette; 864 x 586, PAL.
Local Video Quality:	Selectable using a 4-position bar, from the Main Screen. There are 4 levels of resolution (Frame, Field, CIF, HCIF) with 2 levels of compression (Normal, Full) comprising 8 quality levels total, for the analog cameras. Normal is Optimized-MPEG-4 and Full is JPEG compression. The IP cameras have 10 user selectable, resolution capture sizes (camera dependent).
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 Display Modes:	Multi-screen Display Mode for both live and Video Playback of 1, 4, 6, 9, 16 cameras.
Panel Indicators:	1 blue power LED used for power status indication. 1 red LED used for HDD indication. 1 green LED used for DVD operation.
Panel Key Lock:	Key lock provided on front panel to secure all controls.
Analog Video Inputs:	16 BNC-F connectors.
Monitor Output:	1 VGA connector.
PTZ Control Port:	One DB9, RS-232 serial port provided with RS-422 adapter.

Sensor Input Port:	4 NO/NC connectors, software selectable. Each alarm input is automatically configured as a normally opened (NO) or normally closed (NC) trigger.

Electrical Specifications

Input Voltage:	120-230 ±10% VAC, 50/60 Hz.
Current:	1.25 A.
Power Consumption:	144 W nominal.
Power Connector:	Standard 3-conductor female socket.
CPU:	Intel Core 2 Duo 2.80 GHz.
Memory:	1 GB minimum.
Storage:	500 to 3000 GB, depending on model.
DVD Drive:	Internal DVD drive.
Network Port:	RJ-45 jack.
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:	4 input connectors, software selectable.
Certifications:	CE; FCC, Class A; UL Listing pending.

Mechanical Specifications

Application:	Indoor
Mounting:	Standard 19 in. (483 mm) rack mount and stackable, 1U height.
Dimensions:	1.75" (44.5 mm) H x 19" (483 mm) W x 23.1" (587.4 mm) D, including connectors.
Weight:	24.0 lb (10.9 kg).
Construction:	Steel case and hardware.
Color:	Black.

Environmental Specifications

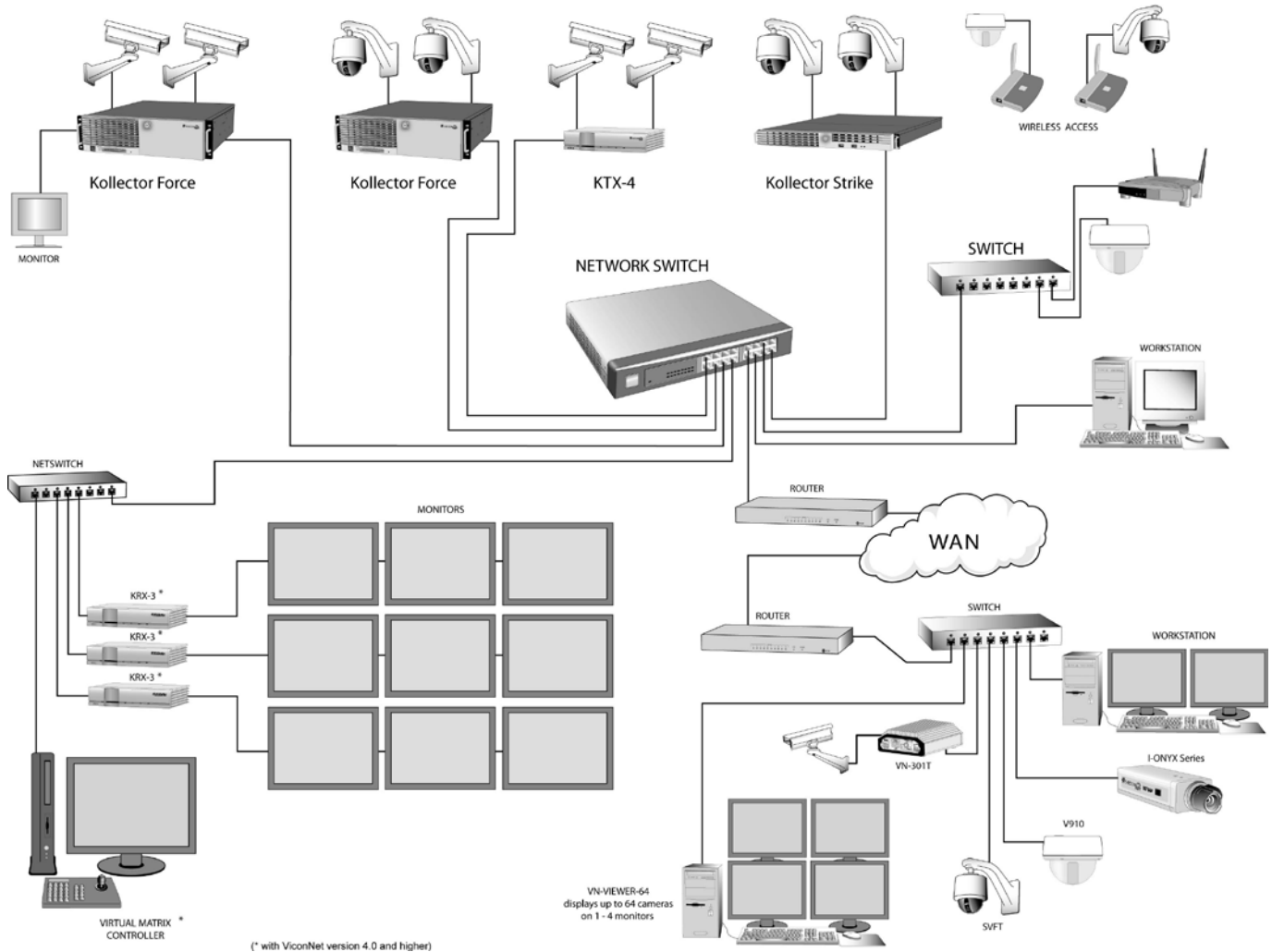|	
Operating Temperature:	32° to 104°F (0° to 40°C).
Humidity:	Up to 95% relative, non-condensing.
Ideal Room Temperature:	66° to 75°F (19° to 25° C).
Ideal Room Humidity:	Up to 80% relative, non-condensing.
Maximum Room Temperature:	50° to 86°F (10° to 30° C).
Storage Temperature Range:	-4 to 158° F (-20 to 70° C) maximum.

Typical ViconNet System Configuration with Kollector Strike DVR

Section II: Models, Product Codes and Descriptions

Model Number	Product Code	Description
KS1-500V5	9688-00	KOLLECTOR STRIKE HYBRID DVR; preloaded ViconNet Ver 5; 16-channel networked digital video recorder, 120 fps, internal OS HD, 500 GB data HD and DVD drive, 4-channel audio, up to 8 additional IP channels at 30 fps each, NTSC/EIA and PAL/CCIR.
KS1-1000V5	9689-00	KOLLECTOR STRIKE HYBRID DVR; preloaded ViconNet Ver 5; 16-channel networked digital video recorder, 120 fps, internal OS HD, 1000 GB data HD and DVD drive, 4-channel audio, up to 8 additional IP channels at 30 fps each, NTSC/EIA and PAL/CCIR.
KS1-1500V5	9690-00	KOLLECTOR STRIKE HYBRID DVR; preloaded ViconNet Ver 5; 16-channel networked digital video recorder, 120 fps, internal OS HD, 1500 GB data HD and DVD drive, 4-channel audio, up to 8 additional IP channels at 30 fps each, NTSC/EIA and PAL/CCIR.
KS1-2000V5	9691-00	KOLLECTOR STRIKE HYBRID DVR; preloaded ViconNet Ver 5; 16-channel networked digital video recorder, 120 fps, internal OS HD, 2000 GB data HD and DVD drive, 4-channel audio, up to 8 additional IP channels at 30 fps each, NTSC/EIA and PAL/CCIR.
KS1-3000V5	9734-00	KOLLECTOR STRIKE HYBRID DVR; preloaded ViconNet Ver 5; 16-channel networked digital video recorder, 120 fps, internal OS HD, 3000 GB data HD and DVD drive, 4-channel audio, up to 8 additional IP channels at 30 fps each, NTSC/EIA and PAL/CCIR.
KS2-500V5	9692-00	KOLLECTOR STRIKE HYBRID DVR; preloaded ViconNet Ver 5; 16-channel networked digital video recorder, 240 fps, internal OS HD, 500 GB data HD and DVD drive, 4-channel audio, up to 8 additional IP channels at 30 fps each, NTSC/EIA and PAL/CCIR.
KS2-1000V5	9693-00	KOLLECTOR STRIKE HYBRID DVR; preloaded ViconNet Ver 5; 16-channel networked digital video recorder, 240 fps, internal OS HD, 1000 GB data HD and DVD drive, 4-channel audio, up to 8 additional IP channels at 30 fps each, NTSC/EIA and PAL/CCIR.
KS2-1500V5	9694-00	KOLLECTOR STRIKE HYBRID DVR; preloaded ViconNet Ver 5; 16-channel networked digital video recorder, 240 fps, internal OS HD, 1500 GB data HD and DVD drive, 4-channel audio, up to 8 additional IP channels at 30 fps each, NTSC/EIA and PAL/CCIR.
KS2-2000V5	9695-00	KOLLECTOR STRIKE HYBRID DVR; preloaded ViconNet Ver 5; 16-channel networked digital video recorder, 240 fps, internal OS HD, 2000 GB data HD and DVD drive, 4-channel audio, up to 8 additional IP channels at 30 fps each, NTSC/EIA and PAL/CCIR.
KS2-3000V5	9696-00	KOLLECTOR STRIKE HYBRID DVR; preloaded ViconNet Ver 5; 16-channel networked digital video recorder, 240 fps, internal OS HD, 3000 GB data HD and DVD drive, 4-channel audio, up to 8 additional IP channels at 30 fps each, NTSC/EIA and PAL/CCIR.

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Model Number	Product Code	Description
KS3-500V5	9698-00	KOLLECTOR STRIKE HYBRID DVR; preloaded ViconNet Ver 5; 16-channel networked digital video recorder, 480 fps, internal OS HD, 500 GB data HD and DVD drive, 4-channel audio, up to 8 additional IP channels at 30 fps each, NTSC/EIA and PAL/CCIR.
KS3-1000V5	9699-00	KOLLECTOR STRIKE HYBRID DVR; preloaded ViconNet Ver 5; 16-channel networked digital video recorder, 480 fps, internal OS HD, 1000 GB data HD and DVD drive, 4-channel audio, up to 8 additional IP channels at 30 fps each, NTSC/EIA and PAL/CCIR.
KS3-1500V5	9700-00	KOLLECTOR STRIKE HYBRID DVR; preloaded ViconNet Ver 5; 16-channel networked digital video recorder, 480 fps, internal OS HD, 1500 GB data HD and DVD drive, 4-channel audio, up to 8 additional IP channels at 30 fps each, NTSC/EIA and PAL/CCIR.
KS3-2000V5	9701-00	KOLLECTOR STRIKE HYBRID DVR; preloaded ViconNet Ver 5; 16-channel networked digital video recorder, 480 fps, internal OS HD, 2000 GB data HD and DVD drive, 4-channel audio, up to 8 additional IP channels at 30 fps each, NTSC/EIA and PAL/CCIR.
KS3-3000V5	9702-00	KOLLECTOR STRIKE HYBRID DVR; preloaded ViconNet Ver 5; 16-channel networked digital video recorder, 480 fps, internal OS HD, 3000 GB data HD and DVD drive, 4-channel audio, up to 8 additional IP channels at 30 fps each, NTSC/EIA and PAL/CCIR.