

KOLLECTOR ELITE XG

16-Channel Hybrid Digital Network Video Recorder and Workstation



ViconNet Rev 3.0 improves system interoperability through integration with industry-leading security systems:

- Lenel's OnGuard® Access Security System
- Hirsch's Velocity™ Access Security System
- ObjectVideo's VEW™ Video Analysis and Tracking Systems

Take advantage of these other high-performance features found only in ViconNet's Rev 3.0

- Geographic mapping and control GUI
- 4-output analog matrix option controlled through the ViconNet interface
- System updates over the network
- 8 alarm output relays
- Improved resolution of 720 x 488
- PTZ/Dome control

Kollector Elite XG is the next generation, with a new look that fits into today's style. Combined with ViconNet Rev 3.0, the line of Kollector Elite XG Hybrid Digital Network Video Recorders has evolved beyond ordinary DVR design. With the full ViconNet software suite that includes geographical map control and an active 4-output analog matrix, these systems are now unrivaled as a total system control station, capable of viewing, controlling and configuring every ViconNet NVR/DVR and IP device on the network.

System integration has also been a focus of ViconNet's development and now you can choose an integrated solution that ties your digital video system together with the leaders in access and video analysis. Kollector Elite recorders can now become an integral part of a complete security system with Hirsch and other industry leaders.

As a DVR, Kollector Elite XG is Vicon's premium recorder, capable of 120, 240, or 480 fps with storage configurations that range up to 1.6 TB internally and 8 TB with optional external RAID's. Models available with internal RAID.

Specification Overview

Model Number	Product Code	FPS	Channels	HD (GB)	CD-R/W	Max Capture Resolution (pixels)
KEX120 Series	8948-01	120	16	250	✓	720 x 488
	8993-01	120	16	500	✓	720 x 488
	8949-01	120	16	900	✓	720 x 488
	8950-01	120	16	1200	✓	720 x 488
	8996-01	120	16	1600	✓	720 x 488
KEX240 Series	8952-01	240	16	320	✓	720 x 488
	8995-01	240	16	660	✓	720 x 488
	8953-01	240	16	900	✓	720 x 488
	8954-01	240	16	1200	✓	720 x 488
	8997-01	240	16	1600	✓	720 x 488
KEX480 Series	8956-01	480	16	250	✓	720 x 488
	8957-01	480	16	1200	✓	720 x 488
	8998-01	480	16	1600	✓	720 x 488

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Technical Information

ELECTRICAL

Input Voltage: 120 - 230 VAC \pm 10%, 50/60 Hz nominal.
Current: 3 A.
Power Consumption: 450 W nominal.
Heat Equivalent: 25.6 btu/min (6.4 kg-cal/min).
System: CPU: Intel® Pentium® IV 2.66 GHz, minimum (3.0 GHz on 480 models).
RAM: 512 MB (1GB on 480 models).
HDD: 250-1600 GB. (Based on model. See Table.)
LAN Card: 100/1000 Mbps TPO.

Connector Types/ Quantities:

Analog Video Inputs: 16 BNC-F.
Analog Video Loopouts: 16 in 2 DB-15 connector.
Power: 1 standard 3-conductor female socket.
VGA Video Output: Dual (VGA/DVI).
Sensor Input Port: 16 NO/NC connectors, software selectable.
PTZ Control Port: 1 4-pin terminal block serial port using RS-422 protocol for all 16 channels. Also, connections available through the 16 connectors.
Network Port: RJ-45 jack, female.
Keyboard Port: 5-pin DIN jack (PS2).
Mouse Port: 5-pin DIN jack (PS2).
Peripheral Port: 2 USB ports used for connection of printers and other peripherals.
Alarm Output: 8 relays.
4-Output Analog Matrix: 4 BNCs.

All BNC connectors: 1.0 V peak-to-peak.
All BNC connectors: 75 ohms.
Video Level Input: NTSC, PAL, EIA and CCIR.
Video Input Impedance: NTSC, PAL, EIA and CCIR.
Video Formats Supported: 16 simultaneous channels @ 120, 240 or 480 frames per second, maximum, 30 fps per channel, maximum.

Video Recording Resolution: 480 horizontal TV lines maximum at 720 x 488 pixel palette, 864 x 586, PAL.

Video Quality: Selectable using a 4-position bar. Numbers 1, 5, 6, 7 in the bar represent 3 pixel palette sizes within 2 compression rates. The Normal and Full buttons select an optimized MPEG4 or M-JPEG compression type, respectively.

Hard Drive Consumption: Model dependant, see Table.
CD-RW Drive: Internal CD-RW drive; optional DVD. Not available on internal RAID models.

Camera to Recorder

Analog Input

Video Transmission Distance

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

Alarm Input Type: Each alarm input is automatically configured as a normally open (NO) or normally closed (NC) trigger.

Alarm Output: 8 relay outputs.

Alarm Input Rating: Dry contact (open or closed).

Audio Input: Microphone should be 0 dbm, 32 KHz bandwidth, 600 ohm impedance, 2 V RMS (1 V p-p) output.

VGA Monitor Output: SVGA, True-Color Mode with a minimum resolution of 1024 x 768. Includes secondary monitor output.

VGA Video Display Modes: Multi-screen Display Mode for both live and Video Playback of 1, 4, 6, 9, 16 cameras.

Analog Video Matrix: 16 x 4 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.

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

Panel Indicators: 1 red power LED used for HDD status indication.
1 green LED used for power indication.
16 green LEDs used for camera detection and recording status.
16 red LEDs used for sensor detection and alarm status.

SOFTWARE OPERATION

Configuration:

The Main Window Screen contains a 16-channel video display area, device tree, controls and toolbars used to operate and setup the system. A configuration menu is used to setup local and remote network sites, macros, devices, authorization, alarms, Picture Database Utilities, Authentication and Sequence Sessions.

Surveillance Operation:

The video display area can show up to 16 simultaneous cameras from all networked recorders providing controls for video quality. Simultaneous live, record and playback video can be displayed with full PTZ control.

Macros:

Automatic operation routines can be defined for local or networked recorded or live cameras with programmable functions of command duration, recording location, picture quality, refresh mode, recording rate (fps), sensor and relays and alarm activation.

Authorization:

Administrator and Guest group rights can be setup to perform specific system functions across the network.

Alarms:

Alarms can be setup to activate using macros or triggered by sensors. Alarms can also be triggered on video loss or "Area of Interest" motion detection screen.

MECHANICAL

Application:

Indoor.

Mounting:

Standard 19 in. (483 mm) rack mount and stackable, 4U height.

Dimensions:

Height: 7.0 in. (178 mm).
Width: 19.0 in. (483 mm).
Depth: 120 fps: 22.0 in. (559 mm).
240/480 fps: 24.25 in. (616 mm).

Note: Dimensions exclude connectors and rack mount handles.

Weight:

50.0 lb (22.6 kg), approximately.

Construction:

Steel case and hardware.

Color:

Black.

ENVIRONMENTAL

Operating

Temperature Range:

32 to 104° F (0 to 40° C).

Operating Humidity Range:

0 to 95% relative, noncondensing