

KOLLECTOR ELITE

16-Channel Digital 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
- Low bandwidth button
- PTZ joystick control

With the introduction of ViconNet Rev 3.0, the line of Kollector Elite Digital 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 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 is Vicon's premium recorder, capable of 120 or 240 fps with storage configurations that range up to 1.6 TB internally and 8 TB with optional external RAID's.

Specification Overview

Model Number	Product Code	Frame Rate (max fps)	Internal Hard Total HD Space	Drives Days Recording	With VN-RAID 15160 (2085 GB) Total HD Space	Days Recording
KE120-200	8443-80	120	200	20	200 + 2085 = 2285	228
KE120-500	8444-80	120	500	50	500 + 2085 = 2585	258
KE120-900	8445-80	120	900	90	900 + 2085 = 2985	297
KE240-300	8446-80	240	300	10	300 + 2085 = 2385	119
KE240-600	8447-80	240	600	25	600 + 2085 = 2685	134
KE240-900	8448-80	240	900	45	900 + 2085 = 2985	149
KE120-8M**	8486-10	120	800	80	800 + 2085 = 2885	287
KE240-8M**	8487-10	240	800	40	800 + 2085 = 2885	144
KE120-1200	8490-10	120	1200	120	1200 + 2085 = 3285	327
KE120-1600	8491-10	120	1600	160	1600 + 2085 = 3685	367
KE240-1200	8492-10	240	1200	60	1200 + 2085 = 3285	164
KE240-1600	8493-10	240	1600	80	1600 + 2085 = 3685	184

Note: All models have a 4-output analog video switcher.

** Mirrored RAID configuration

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TECHNICAL INFORMATION

Electrical

Input Voltage	120 - 230 VAC ±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. RAM: 512 MB. HDD: 200-1600 GB. (Based on model. See Table.) LAN Card: 3Com 100/1000 Mbps TPO.
Connector Types/ Quantities:	Analog Video Inputs: 16 BNC-F. Analog Video Loopouts: 16 in 1 DB-15 connector. Power: 1 standard 3-conductor female socket. VGA Video Output: Dual standard VGA ports. Sensor Input Port: 16 NO/NC terminal block connectors, software selectable. PTZ Control Port: 16 individual sets of terminal blocks or one 4-position screw terminal. Network Port: Ethernet 100Base-T RJ-45 jack. Keyboard Port: 5-pin DIN jack (PS2). Mouse Port: 5-pin DIN jack (PS2). Alarm Output: 8 relay terminal block connectors. 4-Output Analog Matrix: 4 BNCs (optional). All BNC connectors: 1.0 V peak-to-peak.
Video Level Input:	All BNC connectors: 75 ohms.
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 Rate:	540 horizontal TV lines maximum at 720 x 488 pixel palette, 864 x 586, PAL.
Video Recording Resolution:	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.
Video Quality:	Model dependant, see Table.
Hard Drive Consumption:	Internal CD-RW drive.
CD-RW Drive:	
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 output relay terminal block connectors.
Alarm Input Rating:	Dry contact (open or closed).
VGA Monitor Output:	SVGA, True-Color Mode with a minimum resolution of 1024 x 768.
VGA Video Display Modes:	Multi-screen Display Mode for both live and Video Playback of 1, 4, 6, 9, 16 cameras.
Analog Video Matrix:	4-output, optional.
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 fps: 24.25 in. (616 mm). Note: Dimensions exclude connectors and rack mount handles.
Weight:	45.0 lb (20.5 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