



KOLLECTOR ELITE XG 16-CHANNEL HYBRID DIGITAL NETWORK VIDEO RECORDER AND WORKSTATION

Premium Kollektor model provides the ability to view, record, operate and configure all units within a ViconNet system

- Powered by ViconNet software
- Open platform allows functionality with IP cameras from other manufacturers
- Supports megapixel cameras
- Compatible with Virtual Matrix Controller
- Uses ViconNet MPEG-4 compression to optimize data and maximize picture quality
- Simultaneously records and transmits up to 16 digital video channels; supports up to 8 IP cameras in addition to the 16 local inputs
- Macros for programming, recording, alarm and display events
- Geographic mapping and control GUI
- Logical camera groups
- System updates over the network
- 8 alarm output relays
- High-resolution image quality 720 x 488 (4 CIF or D1)
- Flexible frame-per-second settings; view video at one fps while recording at another

Kollektor™ Elite XG, Vicon's top of the line DVR, is a true workhorse. Together with the power of ViconNet®, the line of Kollektor Elite XG Hybrid Digital Network Video Recorders have evolved beyond ordinary DVR design. With the full ViconNet software suite that includes geographical map control and an active 4-output analog matrix, these units 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. Use them as the centerpiece of smaller, single location systems or as part of enterprise scale ViconNet solutions.

As with all Kollektor models, the Elite XG allows for integration between your ViconNet system and solutions from industry leaders in access control and video analytics. Enjoy the benefits and efficiencies of controlling all security operations from a unified system. The Elite also provides seamless support of PTZ cameras via the back panel.

As a DVR, Kollektor Elite XG is Vicon's premium recorder, capable of 120, 240, or 480 fps with storage configurations that range up to 3 TB internally and up to 10 TB with optional external RAID's. Models available with internal RAID.

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Technical Specifications

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: 250-3000 GB. (Based on model.)
 LAN Card: 100/1000 Mbps TPO.

Connector Types/
 Quantities: Analog Video Inputs: 16 BNC-F.
 Analog Video Loopouts: 16 in 2 DB-15 connector.
 VGA Video Output: Dual (VGA/DVI).
 PTZ Control Port: RS-422 protocol for all 16 channels. Peripheral Port: 2 USB ports.
 4-Output Analog Matrix: 4 BNCs.

VIDEO

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

Video Recording Resolution: 480 horizontal TVL max at 720 x 488 pixel, 864 x 586, PAL.

Video Quality: Selectable using a 4-position bar within 2 compression rates. Normal and Full buttons select optimized MPEG-4 or M-JPEG.

CD-RW Drive: Internal CD-RW drive; optional DVD.
 Not available on internal RAID models.

Camera to Recorder Analog Input
 Video Transmission Dist: 1000 ft (305 m) nominal. (Coaxial cable distance)
 Alarm Input Type: Each alarm input is automatically configured as 16 NO/NC dry contact.

Alarm Output: 8 relay outputs.
 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 min. resolution of 1024 x 768. Second 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 switches local inputs to 4 local outputs. Controlled through software Panel

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

SOFTWARE OPERATION

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

Surveillance Operation: Video display area shows up to 16 simultaneous cameras from all networked recorders. Simultaneous live, record and play back video displayed with full PTZ control.

Macros: Automatic operation routines defined for local or networked recorded or live cameras, 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 setup for specific system functions across network.

Alarms: Alarms setup to activate using macros or triggered by sensors. Alarms 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).

Weight: Excludes connectors and rack mount handles.
 Construction: 50.0 lb (22.6 kg), approximately.
 Color: Steel case and hardware.
 Black.

ENVIRONMENTAL

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

Model Number	Product Code	FPS	Channels	HD (GB)	CD-R/W	Max Capture Resolution (pixels)
KEX120V5 Series	9165-55	120	16	250	√	720 x 488
	9166-55	120	16	500	√	720 x 488
	9167-55	120	16	1000	√	720 x 488
	9169-55	120	16	1500	√	720 x 488
	9170-55	120	16	2000	√	720 x 488
	9225-55	120	16	3000	√	720 x 488
KEX240V5 Series	9174-55	240	16	250	√	720 x 488
	9175-55	240	16	500	√	720 x 488
	9176-55	240	16	1000	√	720 x 488
	9178-55	240	16	1500	√	720 x 488
	9179-55	240	16	2000	√	720 x 488
	9226-55	240	16	3000	√	720 x 488
KEX480V5 Series	9182-55	480	16	250	√	720 x 488
	9184-55	480	16	1500	√	720 x 488
	9185-55	480	16	2000	√	720 x 488
	9227-55	480	16	3000	√	720 x 488

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Vicon part number 8015-5080-09-00 Product specification subject to change without notice.