VICON NET
IP Video Solutions

KTX-4
Four-Channel Digital Video Server

KTX-4

- **State-of-the-art IP Server encodes analog video to high-quality digital for transmission to ViconNet NVRs**
- **Powered by ViconNet version 3 software**
- **Perfect solution to convert existing analog systems to digital**
- **Maximum video transmission rate of 30 fps (25 fps PAL) at 720 x 488 pixels (4 CIF) (864 x 586 PAL)**
- **Uses optimized proprietary compression based on MPEG4 that optimizes data and maximizes picture quality**
- **Four alarm inputs/outputs and 2 audio inputs/outputs**

The KTX-4 Four-Channel Server is a powerful IP video source for a complete digital video management system based on ViconNet software platform. It is fully compatible with all ViconNet systems and is remotely managed and controlled from ViconNet workstations and Kollector Elite recorders. This four-channel server delivers up to 120 fps of high-quality video across the network. The KTX-4 provides a total nominal bandwidth of 1.7 Mbps at Q5 (360 x 244 pixels).

Equipped with a 100 Mbps LAN interface board, the server allows direct plug-in to a network switch. Images received from cameras connected to it can be displayed, recorded or archived using the ViconNet NVR workstations.

The KTX-4 provides up to 4 CIF resolution (720 x 488) at 2 levels of compression, Normal (optimized) MPEG4 and Full (JPEG). ViconNet utilizes an MD5 video authentication algorithm used to identify data integrity. In addition, video from any ViconNet server supports museum search, motion detection, full PTZ control, alarm input/output, audio input/output, picture quality configuration, external sensors and macros.

The KTX-4 distributes its own collected video to each workstation, or other Kollector Elite Server, upon request over a network. Each recorder and workstation is capable or viewing 16 simultaneous cameras while supporting archiving, system configuration and the control of pan/tilt/zoom drives. The KTX-4 includes full single-channel video transmission that can be displayed on an SVGA monitor and supports NTSC/EIA and PAL/CCIR video cameras.

Multiple Servers in Complex Network

- Number of servers - Multiple on multiple sites
- KTX-4 supports Video and PTZ control (for most manufacturers' protocols).
- Network bandwith - Each switch to its limit (as shown above), constrained only by the WAN (T1 @ 1.7 Mbps)
- Storage method - Local workstation hard drive, SCSI attached RAID or NAS/SAN storage
- In the basic configuration, workstation recording capability is approximately 25 cameras

Model Descriptions

Model Number	Product Code	Nominal Bandwidth (Mbps)	Video Transmission Rate (fps)	Capture Resolution	Features
KTX-4	8959	1.7 per video stream (max 10 streams per server)	Single-channel server, 30 fps	480 horizontal TV lines max @ 720 x 488 (4 CIF)	PTZ control, audio input/output, alarm input/output, macros

Technical Information

ELECTRICAL

Input Voltage:	24 VAC ±20% or power over standard Ethernet cables IEEE 802.3af.
Current:	300mA @ 24 VAC max.
Power Consumption:	Less than 7 W.

VICONNET (IP)

Communication Hardware:	ViconNet Digital Video Management System.
LAN Interface:	100 MBPS, TCP/IP Unicast.
Number of Channels:	4, over LAN connection
Number of Simultaneous Video Streams:	Maximum of 10 viewing/recording streams per server.
Alarm:	4 dry contact NO/NC input using terminal block connections.
Audio:	2 line-level microphone input using mini-plug.
PTZ:	1 RS-422/485 simplex protocol terminal block connections.
Video Quality:	ViconNet software quality 1-4, selectable on a 4-position bar with 2 compression level settings.
Video FormatsSupported:	NTSC, PAL, EIA, CCIR.

SOFTWARE

Network Setup:	Standard network protocol type using IP addressing scheme and separate PC application software.
Site Authorization:	Can be setup using remote recorder or workstation.
Macro Create & Edit:	System macros can configured to use the dome's video.
Alarm Setup:	Can be triggered on video motion detection and loss.
Authentication:	Can be set to view the symbol A on displayed video.
Picture Quality and FPS Priority:	Can prioritize recorded picture quality and video FPS.

MECHANICAL

Application:	Indoor.
Mounting:	Desk or rack mounted on shelf.
Dimensions:	Height: 1.7 in. (42 mm). Width: 8.5 in. (216 mm). Depth: 6.75 in. (153 mm).

ENVIRONMENTAL

Operating Temperature:	32 to 122ºF (0 to 50ºC).