



## VN-301T Single-Channel Network Encoder

### Digitally Encode Video from any Analog Camera for Integration with a ViconNet System

- State-of-the-art IP Encoder converts analog video to high-quality digital for transmission to ViconNet NVRs
- Powered by ViconNet 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 MPEG-4 that optimizes data and maximizes picture quality
- Small compact chassis fits into common camera housings

The VN-301T Single-Channel Network Encoder is a powerful IP video source for a complete digital video management system based on ViconNet<sup>®</sup> software. It is fully compatible with all ViconNet systems and is remotely managed and controlled from ViconNet workstations and Kollector<sup>®</sup> Elite recorders. This single-channel server delivers up to 30 fps of high-quality video across the network. The VN-301T 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 a camera connected to it can be displayed, recorded or archived using the ViconNet NVR workstations.

The VN-301T provides up to 4 CIF resolution (720 x 488) at 2 levels of compression,

Normal (optimized) MPEG-4 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, audio input, picture quality configuration, external sensors and macros.

The VN-301T distributes its own collected video to each workstation, or other Kollector Elite Server, upon request over a network. Each recorder and workstation is capable of viewing 16 simultaneous cameras while supporting archiving, system configuration and the control of pan/tilt/zoom drives. The VN-301T includes full single-channel video transmission that can be displayed on an SVGA monitor and supports NTSC/EIA and PAL/CCIR video cameras.

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# Technical Specifications

## ELECTRICAL

Input Voltage: 24 VAC  $\pm$ 20%.  
 Current: 300mA @ 24 VAC nominal;  
 490mA @ 18 VAC min;  
 220mA @ 32 VAC max.  
 Power Consumption: Less than 7 W.  
 Vicon Power Supplies: S24PS, V2448-175PS, V248-600PS,  
 V2416-600PS.

## 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.  
 Video Quality: ViconNet software quality 1-8, selectable on a 4-position bar with 2 compression level settings.  
 Video Formats Supported: 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

Macro Create & Edit:

Alarm Setup:

Authentication:

Picture Quality and FPS Priority:

or workstation GUI. Permissions can be assigned for Macro Create & Edit, alarm setup, Authentication, Reports and System Status.

System macros can be configured to use the camera's/dome's video. Can be triggered on video motion detection and loss.

Can be set to view the symbol A on displayed video.

Can prioritize recorded picture quality and video FPS.

## MECHANICAL

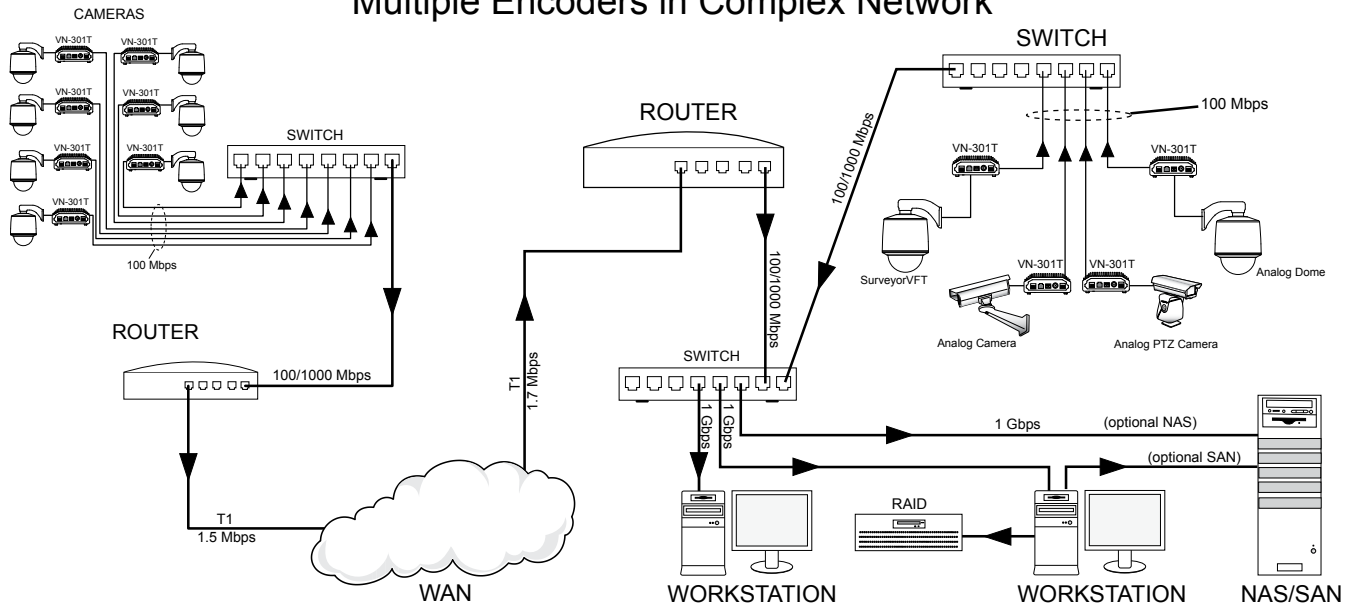
Application: Indoor.  
 Mounting: Desk or rack mounted on shelf.  
 Dimensions: Height: 1.5 in. (38 mm).  
 Width: 3.8 in. (97 mm).  
 Depth: 4.6 in. (117 mm).

## ENVIRONMENTAL

Operating Temperature: 32 to 122°F (0 to 50°C).  
 Humidity: Up to 90% relative, noncondensing.

Model Number	Product Code	Nominal Bandwidth (Mbps)	Video Transmission Rate (fps)	Capture Resolution	Features
VN-301TV5	8479-75	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

## Multiple Encoders in Complex Network



- Number of encoders - Multiple on multiple sites
- VN-301T supports Video and PTZ control (for most manufacturers' protocols).
- Network bandwidth - Each switch to its limit (as shown above), constrained only by the WAN (T1 @ 1.7 Mbps)