VN-306T 6-Channel Digital Video Server

- **6-Channel Digital Video Server transmits high quality video across the network for remote viewing and recording**
- **Powered by ViconNet software**
- **Transmission of up to 6 digital video channels**
- **Maximum system transmission rate of *30 fps (*25 fps PAL version) over the 6 video channels**
- **Uses optimized proprietary compression based on MPEG4 that maximizes data size and picture quality**
- **Simultaneous transmission of multiple channel video across the LAN and WAN (Internet) to connected Kollector Elite recorders and ViconNet workstations**
- **Can be remotely configured from Kollector Elite recorders and ViconNet workstations**
- **Macros can be created remotely to view and record video, access preset positions and trigger alarms**
- **Alarms can be triggered by locally connected sensors**

The VN-306T Server is a 6-channel digital video server powered by a new software platform called ViconNet. This platform allows each VN-306T to collect local video from its analog inputs and send streamed video over the network to the ViconNet Master Workstations for viewing and recording.

ViconNet also powers each VN-306T Server with the ability to be remotely configured from other Kollector Elite recorders and workstations on the network. Changes to server parameters are possible from one or more ViconNet Global Master Workstations or Kollector Elite recorders.

In addition, the server supports full PTZ control, alarm reporting, picture quality configuration, external sensors, macros, and alarm configuration.

The VN-306T distributes its own 6 channels of collected video to each workstation, or other Kollector Elite Server, upon request over a network. Each recorder and workstation is capable of viewing a total of 16 simultaneous cameras while supporting archiving, system configuration and the control of pan/tilt/zoom drives.

The VN-306T includes full support for NTSC/EIA and PAL/CCIR video cameras. In addition, the VN-306T supports Internet connectivity for remote video transmission.

*The actual fps may vary between 22 – 30 fps due to the volume of network activity, the number of accessed cameras and the amount of scene activity.

Vicon strongly recommends the use of uninterruptible power supply systems (UPS) to prevent voltage fluctuations that can affect operation, cause video loss and damage to the equipment.

ASSOCIATED EQUIPMENT AND ACCESSORIES

Kollector Elite Digital Video Recorder, Product Code varies by model: 16-channel networked digital video recorder for use with Kollector Pro Series recorders and ViconNet VN5000 systems. Product Specification V112.

ViconNet VN5000 Master Workstation, Product Code 8221: PC computer preloaded with VN1000 Master Control Software for use with Kollector Pro Series recorders and Kollector Elite recorders. Product Specification V113.

Model VN-MON Monitor, Product Code 8222: 17-inch VGA monitor for use with Kollector Pro Series recorders and Vicon Net VN5000 systems.

Model VN-17FLT Monitor, Product Code 8237: 17-inch flat screen monitor for use with Kollector Pro Series recorders and ViconNet VN5000 systems. Product Specification V127.

NETSWITCH-8 Network Switch, Product Code 7787: 8 port, 10/100 autosensing network switch, stackable.

Model V650-UPS Uninterruptible Power Supply, Product Code 8298: 650 VA/400 W unit with DB-9 port (RS-232) and 120 VAC input/output.

ELECRICAL

Input Voltage: 110 - 230 VAC +/- 10%, 50/60 Hz using 12 VDC output transformer.

Current: 0.3 A maximum at 12 VDC.

Power Consumption: 22.5 Watts nominal.

Heat Equivalent: 1.3 Btu/min (0.3 kg-cal/min).
Note: These figures represent the conversion of 100% of the electrical energy to heat. Actual percentage of the heat generated will be less and will vary from product to product. These figures are provided as an aid in determining the extent of cooling required for an installation.

Connector Types/ Quantities: **Analog Video Inputs:** 6 BNC-F.
Power: 1 coaxial socket.
Network: 1 standard RJ-45 port.
Sensor Input: 4 2-pin terminal block connections.
PTZ Control Port: 1 4-pin terminal block connection using RS-422 protocol.

Number of Video Channels: 6, BNC-F type inputs

Video Formats Supported: NTSC, PAL, EIA and CCIR.

Video Transmission Rate: 6 simultaneous channels @ 30 frames per second (25 fps PAL version), maximum. 30 fps (25 fps PAL version) is divided among the 6 channels.

Camera to Server Analog Input Video Transmission Distance (coaxial cable distance): 1000 ft (305 m) nominal.

Video Transmission Resolution: 480 horizontal TV lines maximum at 640 x 240 pixel pallet, 768 x 288 PAL.

Video Quality: ViconNet software quality 3 – 8, selectable on an 6-position bar with 2 compression level settings in resolutions 640 x 240 (768x 288 PAL), 320 x 240 (384 x 288 PAL), 240 x 120 (288 x 144 PAL).

Video Bandwidth: 0.8 Mbps, nom. See Bandwidth chart.

Panel Indicators: 1 red LED used for power indication. 1 yellow LED used for transmission indication.

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

SOFTWARE OPERATION

Network Setup: Standard network protocol type using IP addressing scheme and separate PC application software.

Site Authorization: Server can be setup using remote recorder or workstation GUI. Site name and authorization can be established by User and Group. Permissions can be assigned for macro create & edit, alarm setup, Authentication, Reports and System Status.

Macro Create & Edit: System macros can be added, edited, and deleted using the Server's cameras and detectors. In addition, within macros, alarms can be sent and remote macros run.

Alarm Setup: Server alarms can be established by adding sensors. Alarms can be triggered on video motion detection and loss. Alarms can be sent to remote units. In addition, sensors can be deleted from the device list.

Device Settings: The Server's cameras and sensors can be named. Cameras can be setup as PTZ types and full descriptions can be added.

Authentication: The video from the Server's cameras are set to view the Authentication status symbol (A) on the displayed video.

MECHANICAL

Application: Indoor.

Mounting: Desk or rack mounted on shelf.

Dimensions: Height (H): 2.7 in. (67 mm).
Width (W): 9.75 in. (248 mm).
Depth (D): 8.5 in. (217 mm).
Note: Dimensions exclude connectors.

Weight: 3.3 lb (1.5 kg), approximately.

Construction: Screened aluminum case.

Color: Black.

ENVIRONMENTAL

**Operating
Temperature Range:** 32 to 122° F (0 to 50° C).

**Operating
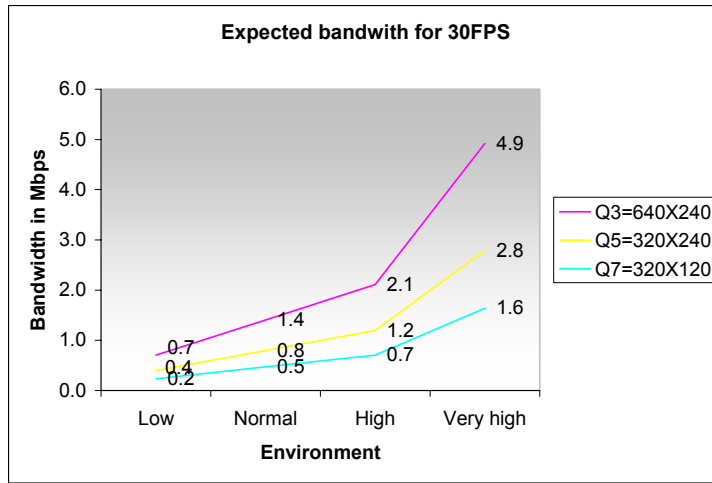Humidity Range:** Up to 95% relative, noncondensing.

**Ideal Room
Temperature Range:** 66 to 75° F (19 to 25° C).

**Ideal Room
Humidity Range:** 80% relative, non-condensing.

**Maximum Room
Temperature Range:** 50 - 86˚F (10 - 30˚C).

**Storage
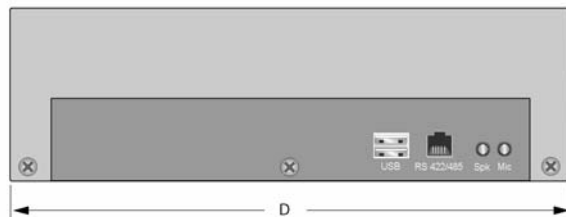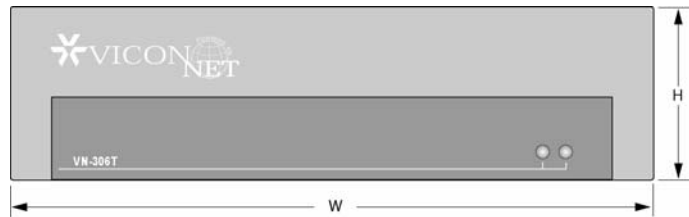Temperature Range:** -4 to 158° F (-20 to 70° C).

**Storage
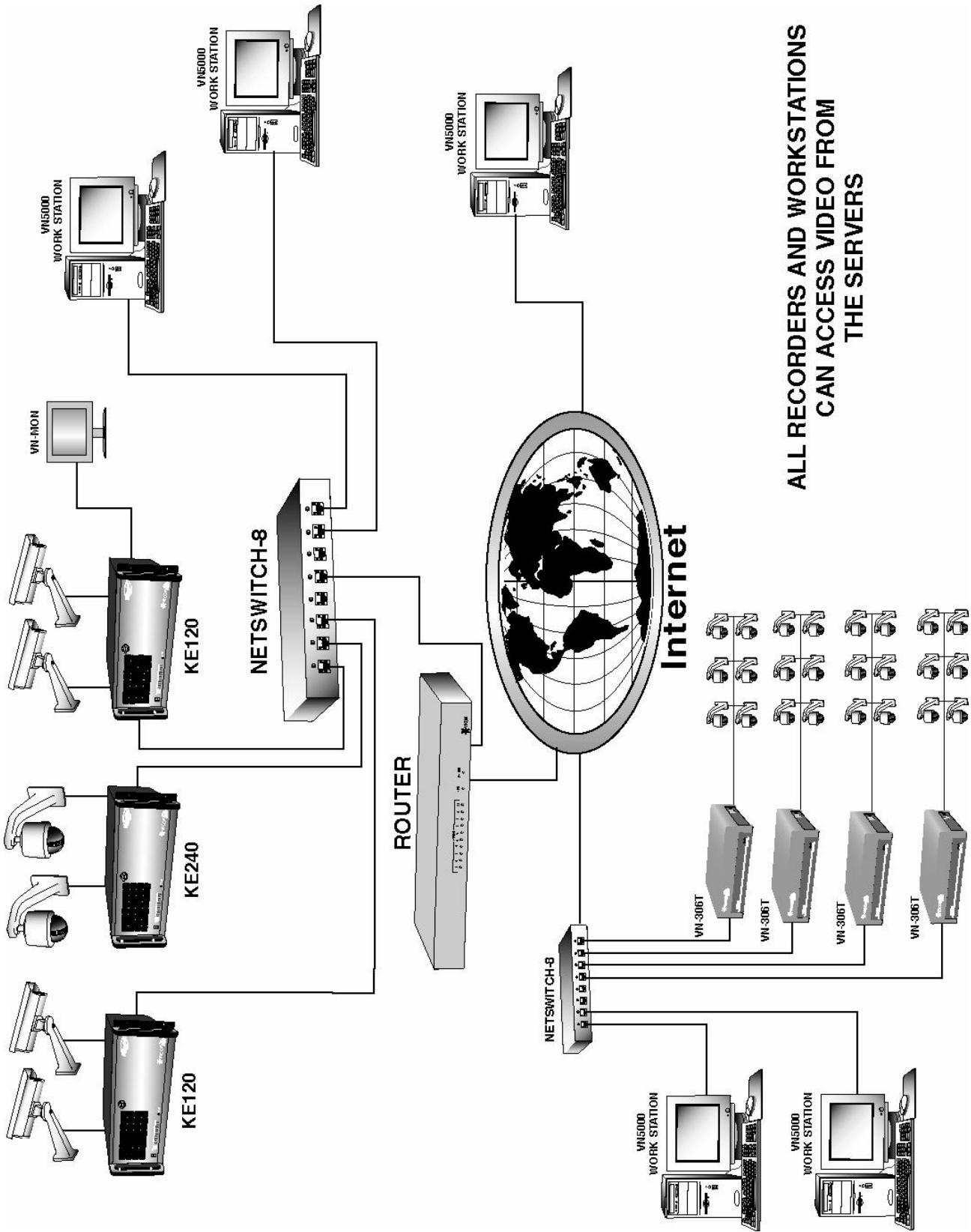Humidity Range:** 0 to 95% relative, non-condensing.

Expected bandwith for 30FPS

Chart — Bandwidth in Mbps vs Environment (Low, Normal, High, Very high):
- Q3=640X240 (magenta): 0.7, 1.4, 2.1, 4.9
- Q5=320X240 (yellow): 0.4, 0.8, 1.2, 2.8
- Q7=320X120 (cyan): 0.2, 0.5, 0.7, 1.6

VN-306T	Remote Hard Drive Storage (GB)								
	60	200	300	500	600	900	1000	2000	3000
Days Recording	24	80	120	200	240	360	400	800	1200

Note: This table is based on the following conditions:
- 24 hours normal activity with 50% detected movement over time, Normal compression and Quality Q5 (320 x 240 pixels NTSC, 384 x 288 pixels PAL)
- Recording durations may vary based on actual scene activity.

ALL RECORDERS AND WORKSTATIONS CAN ACCESS VIDEO FROM THE SERVERS