

DVTEL'S MPEG-4 VIDEO ENCODERS

7624E SERIES OF 24 VIDEO INPUTS VIDEO SERVER

The 7624E series of video and audio encoders are the most economical solutions for high-density video and audio applications with the best cost per input, while providing high frame rate per input and maintaining video resolution. The 7624E is available in two versions, the 7624E (video only), and the 7624EA (video and a single pair of bi-directional audio). The 7624E is best suited when an existing system needs to be replaced by a network based solution. High density inputs provide the ability to connect all existing cameras to the 7624E video server.

The 7624E series of MPEG-4 video encoders provides 24 independent video inputs that can be set for 30fps NTSC/ 25 PAL at CIF (352x240/352x288) resolution, 7.5 frames per second NTSC / 6 PAL at 2CIF (704x240/704x288) resolution or 4 frames per second NTSC/PAL at 4CIF (704x480/704x576) resolution. Utilizing advancement in video and audio compression, the 7624E provides high-frame rate, high-resolution video and high-fidelity audio, while maintaining a significantly lower file size, which requires less network bandwidth and storage space compared to other varieties of image compression encoders/cameras.

The 7624E series of video encoders utilizes IGMP Snooping (Layer-2 multicasting) technology, which enables a single stream to be transmitted to multiple viewers on the network simultaneously. Multicasting reduces bandwidth demands, allowing more cameras to be transmitted over the network than unicast based products including unicast IP cameras and DVRs.

The 7624E/EA Encoder provides more than just high-resolution video, it also provides bi-directional audio, data and serial communications and dry contact alarms both in and out. An authorized user can select the viewing stream while recording is done at a wide choice of frame rates on the storage system. This, combined with Latitude's advanced features, presents the ability to replace an analog system with a completely digital solution.

The 7624E is fully compatible with the Adaptive Visualization Technology (AVT™) SceneTracker™ software. SceneTracker permits multiple video streams from separate cameras to be "stitched" together. Combined with the Latitude NVMS, live or recorded video can be viewed on a traditional analog monitor using the 7500 family of IP-based decoders. A networked MPEG-4 decoder can be installed where live viewing is required on an analog CCTV monitor, or for recording to a VCR or DVR. The decoder can also be used for live monitoring or to review recorded video using Latitude NVMS.

This addition to the Intelligent Security Operations Center (iSOC™) is designed to provide high density video inputs, while maintaining a smaller footprint, for retrofitting an existing security communication room where all camera coax cables are already terminated.



- Fully compatible with the AVT SceneTracker System
- Multi video resolution settings at up to 4CIF 704x480 NTSC, 704x576 PAL per channel
- 30fps NTSC/25 PAL per channel at CIF resolution
- Twelve (12) dry contact alarm inputs
- Two (2) relay outputs
- Bi-directional full duplex audio input/output option
- High density 24 video inputs in 19" 1U (1.75") high rack mount enclosure
- RS-232 and RS-422/485 serial communication ports for interfacing with CCTV keyboards, PTZ cameras and access control systems, building management systems, and other serial applications
- Firmware upgrades via the network
- Remote access for configuration, viewing and control via standard web browser
- RTP/IP, UDP/IP and TCP/IP network communication protocol options
- IGMP Multicast network protocol enabled



DVTEL'S MPEG-4 VIDEO ENCODERS

7624E SERIES OF 24 VIDEO INPUTS VIDEO SERVER

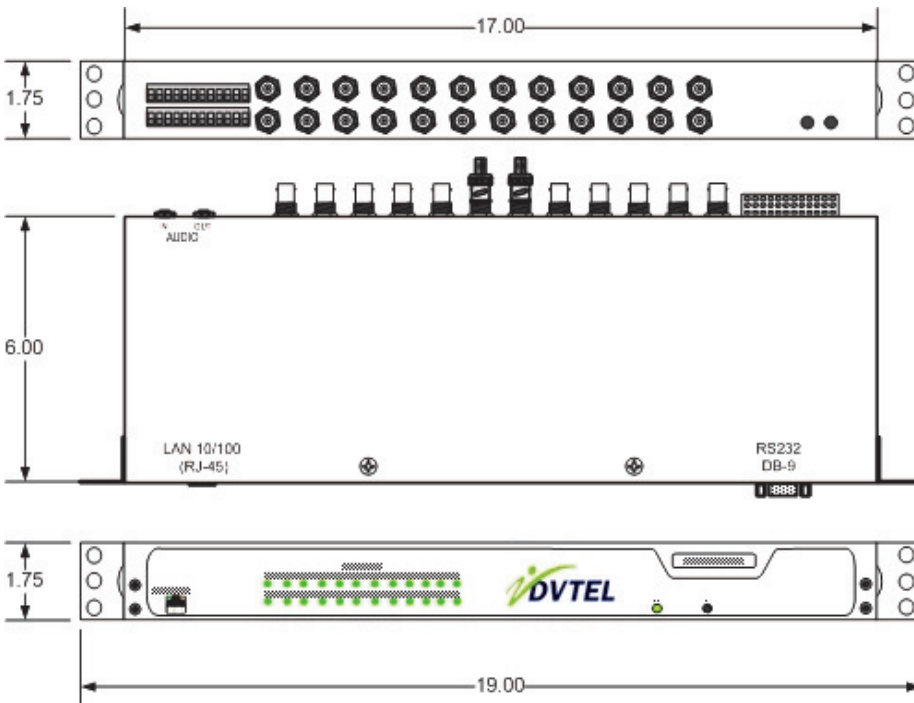
Specifications

Network	
Interface	Ethernet 10/100Base-T
Connector	RJ-45
Protocols	Transport: RTP/IP, UDP/IP, TCP/IP with full multicast support. DNS and DHCP
Security	SSL-based authentication
Video	
Input	24 composites, 1Vpp into 75 ohms (NTSC/PAL)
Connectors	24 BNC female connectors
Termination	75 Ohm software selectable per input
Compression	MPEG-4
Resolution	Scalable from CIF to 4CIF 352x240 to 704x480 NTSC, 352x288 to 704x576 PAL
Frame Rate	1-30 NTSC / 1-25 PAL FPS Programmable NTSC (full motion) - CIF 1-7.5 NTSC / 1-6.25 FPS Programmable NTSC, 2CIF 1-4 NTSC / 1-4 PAL FPS Programmable NTSC, 4CIF
Bandwidth	Configurable between 30 Kbps and 6 Mbps
Alarm	
Input	12 dry contacts
Output	2 Relay Contact, 48V AC/DC at 100 mA max.
Audio (optional)	
Bi-directional Audio (EA)	Input: -46 to -3 dBV into 30 kOhm (line in or microphone in only) Output: -46 to -3 dBV into 8 ohms minimum Connectors: One set of 0.14 in. (3.5 mm) input and output stereo jacks
Serial Port	
Communication Protocols	Port 1: RS-232 (maximum 230 Kbps) Port 2: RS-422/485 2/4 Wires (maximum of 230 Kbps)
Connectors	Port 1: DB-9 Port 2: pluggable screw-terminal strip
Operating Mode	Transparent serial port supports any asynchronous serial protocol
Management	
Configuration	Remote: Via the Latitude AdminCenter and/or standard web browser Local: Telnet via the serial port using any ASCII Terminal
Firmware Upgrade	Flash memory for upgrade of encoders and application firmware over the network



Physical, Electrical, Environmental and Regulatory

Physical	
Enclosure	Metal case with flange mount (black color)
Dimensions (W x D x H)	17" x 6.1" x 1.7" 431.8mm x 154.9mm x 43.2mm
Unit Weight	5.2 Lbs. (2.4Kg)
Unit Shipping Weight	7 Lbs. (3.2Kg)
Electrical	
Input Voltage	12V DC +/- 10%
Power Consumption	24W
Power Connector	2-pin plug
Environment	
Indoor Operating Temperature	32° F to 122° F (0° C to 50° C)
Storage Temperature	32° F to 140° F (0° C to 60° C)
Humidity	95% (non-condensing)
Regulatory	
USA	FCC part 15 (subpart B, class A)
Europe	CE marked, EN55022-1998 Class A, EN55024
Canada	ICES-003/NMB-003 Class A
Warranty	2-year limited warranty, covering parts



7624xx Video Encoder and Latitude NVMS Software Options

Latitude software packages		
DVT-7624E	24 Port Encoder	
DVT-7624EA	24 Port Audio Encoder (bi-directional in/out)	
Latitude Classic	LAT35-C-DMC	LAT50-C-DMC
Latitude Elite	LAT35-EL-DMC	LAT50-EL-DMC
Latitude Enterprise	N/A	LAT50-NT-DMC

Accessories for 7624xx Video Encoder

Power Accessories	
DVT-PWR-200W	200W Power Supply for up to 8 units
DVT-PWR-40W	40W Power Supply for single unit
DVT-WHK-4UA	4 Unit Power Cable for DVT-PWR-200W
7501D/DA	Single port Decoder (DA - with Audio)
7504D/DA	4-port Decoder (DA - with Audio)

