

DVTEL'S HIGH-RESOLUTION MPEG-4 VIDEO ENCODERS

7612E SERIES OF TWELVE (12) VIDEO INPUTS VIDEO SERVER

The 7612E series of high-resolution encoders are the most economical solution for high-density video and audio applications with the best cost per input while providing high frame rate per input and maintaining high video resolution. The 7612E is available in three versions, the 7612E (video only), 7612EA (video and a single pair of bi-directional audio) and 7612EU (video and 12 unidirectional high-fidelity audio inputs).

The 7612E series of MPEG-4 video encoders provides twelve independent video inputs that can be set for 30fps NTSC/25 PAL at 2CIF (704x240/704x288) resolution or 15 frames per second NTSC /12.5 PAL at 4CIF (704x480/704x576) resolution. Utilizing the advancement in video and audio compression, the 7612E 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 7612E 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 7612E Encoder provides more than just high-resolution video, it also provides bi-directional audio, unidirectional audio, data and serial communications and dry contact alarms both in and out. The 7612E dual video streaming technology combined with the Latitude NVMS™ Digital Virtual Matrix Switcher allows independent settings for the live video and recorded streams. An authorized user can select the viewing stream, at a high frame rate and resolution, while the recording stream is being captured on the Latitude Media Archive Server storage system at a different rate. For example, a camera can be set to be viewed at 30fps NTSC/25 PAL while recording at 15fps NTSC/12.5 PAL. This, combined with Latitude NVMS Virtual Matrix Switch's advanced features, presents the ability to replace the complete analog system with a digital one.

The 7612E 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 the 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
- Up to 30fps NTSC/25 PAL per channel at 4CIF resolution
- Dual video stream per channel for independent viewing and recording settings
- Twelve (12) dry contact alarm inputs
- Three (3) relay outputs
- Audio Options:
 - Optional pair of bi-directional full duplex audio in/out
 - Optional twelve (12) uni-directional audio inputs
- High density twelve 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
- Power over Ethernet (PoE) support via optional injector/splitter accessory



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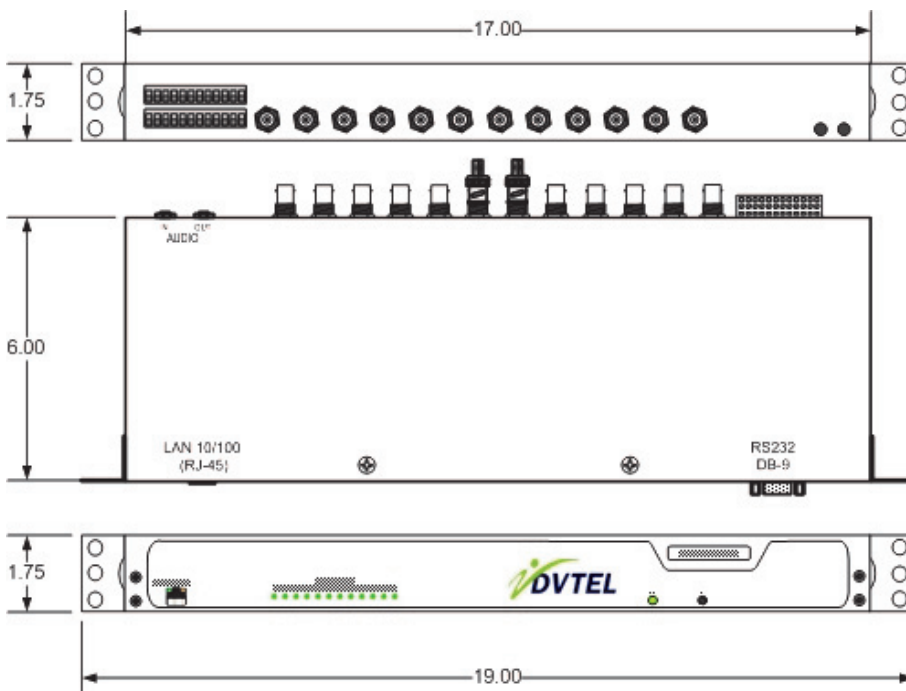
Specifications

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	Twelve (12) composites, 1Vpp into 75 ohms (NTSC/PAL)
Connectors	Twelve (12) 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 FPS Programmable NTSC (full motion) - CIF, 2CIF 1-15 FPS Programmable NTSC - 4CIF 1-25 FPS Programmable PAL (full motion) - CIF, 2CIF 1-12.5 FPS Programmable PAL - 4CIF
Bandwidth	Each stream is configurable between 30 Kbps and 4 Mbps for a total of 6 Mbps per camera (dual streaming - viewing and recording combined)
Alarm	
Input	12 dry contacts
Output	3 Relay Contact, 48V AC/DC at 100 mA max.
Audio (optional)	
Bi-directional Audio (EA)	Input: -46 to -3 dBV into 1 kOhm Output: -46 to -3 dBV into 16 ohms minimum Connectors: One set of 0.14 in. (3.5 mm) input and output stereo jacks
Unidirectional Audio (EU)	Programmable bias: 0-9V DC 16-bit resolution 8, 16, or 24 KHz sampling rate Connectors: 12 0.14 in. (3.5 mm) input 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 2.5mm 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 (Pending)	
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



7612xx Video Encoder and Latitude NVMS Software Options

Latitude software packages		
DVT-7612E	Twelve Port Encoder	
DVT-7612EA	Twelve Port Audio Encoder (bi-directional in/out)	
DVT-7612EU	Twelve Port Uni-Directional Audio Encoder	
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 7612xx 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)

