DVTEL's video encoders are a best-in-class solution for the most demanding security and surveillance applications requiring the conversion of up to 8 or 16 analog video inputs to digital IP video at the edge. Using advanced video compression technology, EV encoders provide a total of 45 frames per second (FPS), while maintaining a significantly smaller file size to provide improved network and storage management.

DVTEL's encoders are the preferred choice for customers looking to migrate from an analog camera to an IP platform in airports, correctional facilites, municipal applications, seaports, tollway/traffic installations and more.

EV encoders are equipped with dual video stream H.264 (MPEG-4 Part 10) for viewing and recording up to 45 FPS NTSC / 37.5 FPS PAL with 100% image quality.

DVTEL's EV encoders provide the highest image quality at the lowest bandwidth and storage requirements. These encoders can achieve high quality real-time 30/25 FPS (NTSC/PAL) at D1 resolution starting at less than 1 megabit per stream. EV encoders come with an optional audio interface, allowing for high quality bi-directional audio transmission.

IEEE compliant, DVTEL's entire line of encoders use the latest in multicast networking technology which enables a single stream to be transmitted to multiple viewers on the network simultaneously. This feature further reduces bandwidth and provides greater flexibility options for installation.

EV-116 / EV-208 / EV-216 Key Features

- High performance encoders
- Dual-stream H.264 video
- Configurable video resolution up to D1
- Up to 45/37.5 FPS (NTSC/PAL) at D1 (EV-208 & EV-216)
- Up to 15/12.5 FPS (NTSC/PAL) Single stream or 2CIF 15/12.5 FPS (NTSC/PAL) dual stream (EV-116)
- 8 or 16 alarm inputs / 2 or 4 realy output (depending on model)
- 4 / 8 port bi-directional + 4 / 8 output only audio ports (option depends on model)
- Unicast or multicast

EV encoders can be used with DVTEL's EV decoders only. For more information, contact your regional sales representative.

dvtel® *Now you can.*

VIDEO INNOVATION TO SECURE YOUR BUSINESS

www.dvtel.com

General Specifications

Network	
Interface 1	RJ-45, Ethernet 10/100/1000 BaseT (for main connectivity)
Interface 2	RJ-45, Ethernet 10/100/1000 BaseT (for maintenance)
Protocols	Transport: RTP/IP, UDP/IP, TCP/IP or multicast IP Others: DNS, NTP, SNMP v1/v2c/v3 (MIB-II), TTP, HTTPS, DHCP client
Video	
Input	EV-208 has 8 inputs / EV-216 and EV-116 have 16 inputs
Connection	Female BNC's
Compression	H.264 Main Profile (MP), dual-stream
Performance	EV-208-A and EV-216-A: Dual-stream 4CIF 30/25 FPS (NTSC/PAL) plus 4CIF 15/12.5 FPS (NTSC/PAL), on all channels simultaneously EV-116: Single-stream D1 15/12.5 FPS (NTSC/PAL) or dual-stream 2CIF 15/12.5 FPS (NTSC/PAL), on all channels simultaneously
Resolution	Up to D1 NTSC and PAL
Bandwidth	Configurable between 30 Kbps and 6 Mbps
Alarm	
Input	EV-208 has 8 / EV-216 and EV-116 have 16 dry contacts
Output	EV-208 has 2 / EV-216 and EV-116 have 4 relay contacts
Audio (Optional)	
Compression	G.711, PCM
Audio characteristics	3 dB frequency response (1 kΩ load): 60 to 3600 Hz (16Ω load): 350 to 3600 Hz Maximum input voltage (-12 dB attenuation): 1.4 Vms Max. output voltage/power (16Ω load): 800 mVms/ 40 mV Microphone BIAS voltage: 3V
Connectors	8/16 stereo jacks - 1/8 in. (3.5 mm)
Serial Port	
Standards	RS-232, RS-422/485 2/4 wires
Connector	Pluggable terminal block
Operating mode	Transparent serial port supports any asynchronous serial protocol
Maintenance mode	USB host port

Management	
Configuration	Remote: via web access, Telnet or supported Video Management Software
Firmware upgrade	Flash memory for upgrade of video codec and application firmware over the network
Regulatory	
USA	UL, FCC Part 15 (Subpart B, Class A)
Canada	ICES03 Class A
Europe	CE Marking (EN55022, EN55024)
Warranty	
Electronics	3-year limited warranty, covering parts
Physical	
Enclosure	1U metal enclosure with Flange mount
Dimensions (HxWxD)	1.75 x 17 x 6.6 in. (44.45 x 431.8 x 167.7 mm)
Unit weight	4.0 lbs. (1.8 kg)
Unit shipping weight	5.0 lbs. (2.3 kg)
Electrical	
Input voltage	12 VDC
Power consumption	EV-208: 20 Watts / 23 Watts with audio EV-216: 25 Watts / 29 Watts with audio
Power connector	Terminal block
Environmental	
Operating temperature	32° F to 131° F (0° c to 55° C)
Humidity	95% non-condensing at 131° F (55° C)

Encoder Ordering Information

Type		Series	Video Ports	Audio Options		
EV	-	X	XX	A	-	D
EV	-	1-Pro Classic Series 2-Pro Elite Series	08 = 8 Ports 16 = 16 Ports	A - With Audio	-	Pro classic series available in 16 ports only Pro-elite series available in 8 and 16 ports EV-208-A: 4 bi-directional line / mic and 4 line out audio ports EV-216-A: 8 bi-directional line / mic and 8 line out audio ports
DVT-PWR-275W	-				-	275W Power Supply for up to 8 units
DVT-PWR-40W	-				-	40W Power Supply for a Single Unit

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DVTELENCODERS-021213

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