

DVTel EV Series Encoders

8 and 16 H.264 Port Encoders



High Resolution H.264 4CIF 8 and 16 Port Encoders

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

DVTel's Encoders are the preferred choice for any customer looking to migrate from an analog cameras to an IP platform for use in Airports, Detentions/Prisons, Municipal applications, Seaports, Tollway/Traffic installations and more.

The EV series Encoders are equipped with dual video stream H.264 (MPEG-4 Part 10) for up to 45 fps NTSC / 37.5 fps PAL on two streams for viewing and recording with 100% image quality. This affords excellent image response and efficient bandwidth utilization.

DVTel's EV Encoders provide the highest image quality at the lowest bandwidth and storage requirements. In most cases, these Encoders can achieve high quality real-time 30/25FPS (NTSC/PAL) at 4CIF resolution starting at less than 1 megabits per stream.

IEEE compliant, DVTel's entire line of Encoders utilize the latest in multicast networking technology which enables a single stream to be transmitted to multiple viewers on the network simultaneously, further reducing bandwidth and providing more flexibility options for installation.

DVTel offers a full line of IP cameras and encoders to meet your every need. Please see our IP Camera and Encoder Family Guide at www.dvtel.com/products/edge-devices to explore your options.

EV-200 Series

- High Performance Encoders
- Dual-stream H.264 Video
- Multi-video Resolutions up to 4CIF
- Up to 45/37.5 FPS (NTSC/PAL) at 4CIF
- 8 or 16 Alarm Inputs / 2 or 4 Relay Output (depending on model)
- Unicast or Multicast

EV-100 Series

- Cost Competitive Encoder
- Dual-stream H.264 Video
- Multi-video Resolutions up to 4CIF
- Up to 15/12.5 FPS (NTSC/PAL) at 4CIF
- 16 Alarm Inputs / 4 Relay Output
- Unicast or Multicast

DVTel EV Series Encoders

8 or 16 Port 4CIF Encoder



EV Encoder Series

General Specifications

Network	
Interface 1	RJ-45, Ethernet 10/100/1000 Base-T (for main connectivity)
Interface 2	RJ-45, Ethernet 10/100/1000 Base-T (for maintenance)
Protocols	Transport: RTP/IP, UDP/IP, TCP/IP, or multicast IP Others: DNS, NTP, SNMP v1/v2c/v3 (MIB-II), HTTP, HTTPS, and DHCP client
Video	
Input	EV-208 has 8 Inputs / EV-216 and EV-116 have 16 inputs
Connection	Female BNCs
Compression	H.264 Main Profile (MP), Dual Stream
Resolution	Up to 4CIF NTSC and PAL
Performance	EV-208 and EV-216: Dual stream 4CIF 30/25 fps (NTSC/PAL) + 4CIF 15/12.5 fps (NTSC/PAL), on all channels simultaneously EV-116: Single stream 4CIF 15/12.5 fps NTSC/PAL, or dual stream 2CIF 15/12.5 fps NTSC/PAL, on all channels simultaneously
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 Contact
Serial Port	
Standards	RS-232, RS-422/485 2/4 Wires
Connectors	Pluggable terminal block
Operating Mode	Transparent serial port supports any asynchronous serial protocol
Maintenance Mode	USB Host Port
Management	
Configuration	Remote: Via Web Access and 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), RoHS Compliant
Warranty	
	3-year limited warranty, covering parts

Physical, Electrical and Environmental

Physical	
Enclosure	1U Metal Case with Flange Mount
Physical	
Dimensions (H x W x D)	1.75" x 17" x 6.6" (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	12V DC
Power Consumption	EV-208: 20 Watts EV-216: 25 Watts
Power Connector	Terminal Block
Environment	
Operating Temperature	32°F to 131°F (0°C-55°C)
Humidity	95% non-condensing at 131° F (55°C)

Ordering Information

Power Supply	
DVT-PWR-275W	275W Power supply for up to 8 units
DVT-PWR-40W	40W Power Supply for a single unit

Type	Series	Video Ports	Notes
EV	-	XX	
Encoder	-	08 = 8 Ports 16 = 16 Ports	Pro-Classic Series available in 16 Port only Pro-Elite Series available in 8 and 16 Port