

VideoEdge® IP Encoder

4-channel IP encoder

Features That Make a Difference:

- Architecture developed to leverage Active Content Compression (ACC) technology
- Power over Ethernet
- Manage network bandwidth through per camera user-defined data stream limit
- Compatible with Intellex® IP and the Intellex Management Suite (Network Client, Intellex Policy Manager, Intellex Archive Manager, and Browser Client)
- 30 ips NTSC/25 ips PAL at 4CIF
- Access and control from web browser or Intellex IP interface
- Watchdog system monitoring with auto reset
- Video loss detection
- Camera PTZ, focus, aperture adjustment, preset, and pattern controls for selected cameras
- Text stream input
- Multiple-level password protected user access
- 10Base-T/100Base-TX network support
- 1U form factor for shelf, wall, or rack mounting
- Compatible with Intellex IP v4.17 software or higher



The 4-channel American Dynamics® VideoEdge® IP Encoder connects analog cameras and IP video networks. Using Intellex IP, the encoder creates tighter integration of American Dynamics security solutions, plugging analog outputs into an American Dynamics surveillance environment that captures, displays, stores, retrieves, and analyzes security data over an IT network connection.

The VideoEdge IP Encoder and Intellex IP solution supports Network Client, Browser Client, Intellex Policy Manager, and Intellex Archive Manager. Together, these products create an integrated environment for configuring and managing large and complex surveillance systems that require remote access and control, interfacing with alarm services, data mining, and analytics capabilities.

The IP encoder converts outputs from analog cameras into proprietary American Dynamics Active Content Compression (ACC). ACC is a highly efficient video compression format developed to address the specific needs of the security industry. It compresses data up to 9 times more efficiently than comparable MPEG-4 and MJPEG compression technologies. Video streams from the encoder can be viewed via a Microsoft® Internet Explorer browser, Intellex Digital Video Management systems, Network Client, or Browser Client.

The IP encoder creates a single IP video stream which consolidates four composite video inputs, up to four text streams, and four event inputs. Network bandwidth management monitors the compressed data stream for each camera, and each client, and limits the amount of data to a user controlled limit. System performance is further enhanced by sophisticated features like watchdog system monitoring with auto reset and video loss detection.

A versatile control interface can be used to adjust camera pan, tilt, zoom, focus, aperture, presets, and patterns for American Dynamics SpeedDome programmable dome cameras and for select third party PTZ domes.

The VideoEdge IP Encoder is a global solution designed for reliable performance across a wide range of temperature and environmental conditions. Its small form factor allows it to be rack or wall mounted, or to be placed directly on a shelf or a desk in close proximity to the video and text sources.

Video

Number of Channels Four composite video inputs
 Compression Active Content Compression (ACC)
 Compression Levels Three quality settings (Super, Normal, Extended Record) and two sensitivity settings (Normal, High)
 Video Formats NTSC and PAL, Composite 1V p-p, 75 Ω or High-Z
 Frame Rate 4CIF NTSC - up to 30 ips per channel
 4CIF PAL - up to 25 ips per channel
 Resolution (NTSC) Via Intellex IP:
 704 x 480, 704 x 240, 352 x 240
 Via Browser:
 See list above; also
 640 x 480, 640 x 240, 320 x 240
 Resolution (PAL) Via Intellex IP:
 704 x 576, 704 x 288, 352 x 288
 Via Browser:
 See list above; also
 640 x 576, 640 x 288, 320 x 288
 Connector Type Four each BNC

Event Triggering

Event Inputs Four inputs, one per channel
 Input Type TTL with pull up resistor to 3.3V, configurable as active high or active low
 Connector Type Screw terminals on two piece connector
 Video Loss Detection Event triggered on loss of camera video or network connection

Text Recording

Text Inputs Up to four serial text streams (one is shared with RS-422 PTZ control)
 Input Type ASCII text on RS-232
 Connector Type Four each RJ-45

Network

Interface Ethernet 10/100 Base-T
 Ethernet Port RJ-45
 Supported Protocols HTTP, TCP, DHCP (client)
 Concurrent Streams Up to ten (total image rate depends on resolution and content)
 Bandwidth Control Bandwidth limits can be set per camera, per stream

Configuration Management

Configuration Setup Remote, via web browser
 Web Browser Requirements MS IE 6.x, MS IE 7.x, Java Script
 Security Multi-level password protected access

Camera Controls

Camera Protocols American Dynamics, Pelco P, Pelco D, Bosch, BBV StarCard
 Camera Controls PTZ, focus, aperture, menu, presets (depending on camera model)
 Interface Type RS-232, RS-422/485, SensorNet (American Dynamics SpeedDomes only)
 Connector Type Screw terminals on two piece connector

System

Processor 720MHz TMS320DM642
 Memory 64 MB SDRAM, 8 MB Flash

Power

Power Requirements 12V DC, 12W max, 1.0A
 Power Delivery Power over Ethernet (all models) or universal power supply (included with ADEIP4PS)
 Power Connector PoE on RJ-45; 2.5 mm power jack

Operating Conditions

Temperature 0° to 50°C (32° to 122°F)
 Humidity 95% at 50°C (122°F) noncondensing

Physical

Dimensions (L x W x H) 22.1 x 11.3 x 4.3 cm (8.7 x 4.4 x 1.7 in)
 Weight 0.6 kg (1.3 lb)
 Enclosure Metal
 Mounting Rack, wall, desk

EMC Certifications

USA FCC part 15 Class A
 Canada ICES-003/NMB-003 Class A
 Europe EN55022 Class A, EN50130-4
 Australia / New Zealand AS/NZS CISPR22

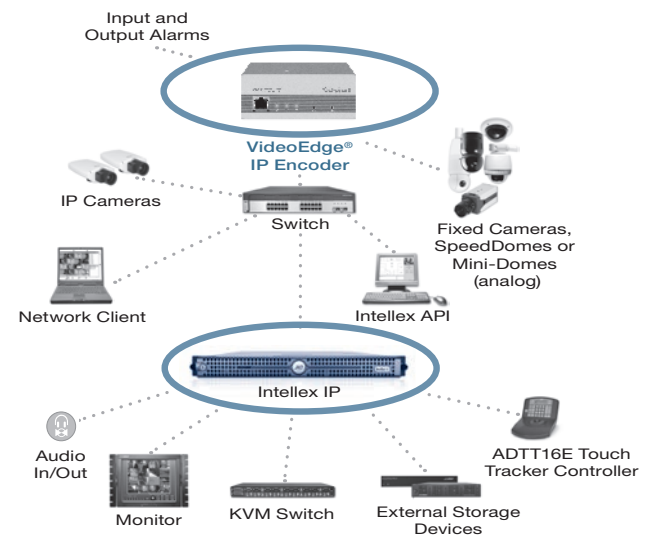
Safety Certifications

UL UL60950-1, CSA C22.2 No. 60950-1
 TUV GS EN60950-1
 CB IEC60950-1

Model Numbers

ADEIP4 Four channel encoder with Power over Ethernet
 ADEIP4PS Four channel encoder with Universal Power Supply
 ADEIP4RM Rack mount kit
 ADEIP4WM Wall mount kit
 ADEIP4PWRS 12V DC Power Supply
 ADEIP4RS232 Adapter from RJ-45 connector to RS-232 port

Basic System Diagram



Product offerings and specifications are subject to change without notice. Actual products may vary from photos. Not all products include all features. Availability varies by region; contact your sales representative. Certain product names mentioned herein may be trade names and/or registered trademarks of other companies.

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