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
- 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 VideoEdge® IP Encoder connects analog cameras to 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 interfaces with Intellex IP solution to 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

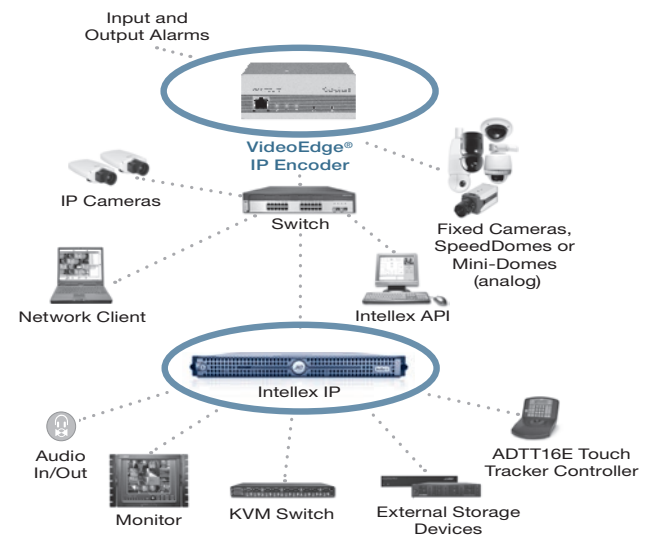|	
USA	FCC part 15 Class A
Canada	ICES-003/NMB-003 Class A
Europe	EN55022 Class A, EN50130-4
Australia / New Zealand	AS/NZS CISPR22

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

Input and Output Alarms
VideoEdge® IP Encoder
IP Cameras
Switch
Fixed Cameras, SpeedDomes or Mini-Domes (analog)
Network Client
Intellex API
Intellex IP
Audio In/Out
Monitor
KVM Switch
External Storage Devices
ADTT16E Touch Tracker Controller

RoHS 2002/95/EC

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