SecureLink 8500 Series
Advanced Motion Detection
Real Time Video, Data and Audio Encoder Over Ethernet

Product Description:

The SecureLink 8500 Series is a component of the Latitude Network Video Management System (NVMS) and SecureLink Transmission and Switching product families. The series includes an advanced motion detection IP-based video, audio, and data video server encoder. The encoder is more than just a video server, it also provide bi-directional audio, data, serial communication and dry contact alarms in and out. It delivers high quality video streams to the Latitude NVMS Virtual Matrix, resulting in true matrix quality for live monitoring operations.

The 8500 series encoder utilizes IGMP multicast technology, which enables a single stream to be transmitted to multiple viewers on the network simultaneously. Multi-casting reduces bandwidth demands, allowing more cameras to be transmitted over the network than non-multicast enabled products such as a DVR, which requires high bandwidth. The live video stream can be viewed on a client PC using the Latitude NVMS client application. A networked MPEG-4 7501D 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 be used for live monitoring or to view recorded video from the Latitude Archive Server.

As an advanced motion detection encoder, the SecureLink 8500 Series intelligently processes video and looks for significant motion and change. Making use of adaptive signal processing algorithms, the 8501E Encoder is highly sensitive over a wide range of operating environments that maximizes the probability of detection while minimizing the nuisance alarm rate.

By digitizing incoming video frames into 720 x 486 pixels, the SecureLink 8500 Series divides fields of view into approximately four thousand cells. Every frame is analyzed for changes to each cell and based upon the pre-programmed attributes (location in the field of view, age, size and aspect ration of the target), an alarm is triggered and the target is tracked. These are attributes that the user can optimize on setup.

It is especially effective with noisy video sources such as uncooled infrared (IR) or light-intensified cameras. Because it quickly adapts to changes in lighting and weather, it can be used in applications where previous generations of video motion detectors have failed. It is fully compatible with the most popular Dome Camera Systems on the market. With its unique preset sequencer, the coverage area can be maximized, with up to 8 presets utilizing their own mask. At each position it learns the scene in about one second and then begins looking for motion. The SecureLink 8500 greatly enhances the effectiveness of video-based security systems operating in the most demanding indoor and outdoor environments.

The SecureLink 8500 series' plug-and-play design and combined with the Latitude NVMS's auto-discovery feature ensures rapid installation and low maintenance costs. The SecureLink 8500 series runs over existing Ethernet networks, eliminating the need to run new coaxial cable, the most expensive and labor-intensive component of system installation. By eliminating these costs, the 8500 Encoder series immediately increases return on investment and reduces total cost of ownership.

The 8500 series, combined with the 5500 series twisted pair transmission technology, can provide high quality video transmission at 30 fps NTSC/25 fps PAL over standard telephone (CAT3) wires while maintaining regular telephone operation. In addition, since the 8500 utilizes standard TCP/IP communication protocol, connecting to a wireless network is simple, making connection possible to locations not easy to reach by a standard wired solution.

Product Features:

- Advanced motion detection with fully programmable motion masks
- Vibration Tolerance - eliminates false alarms when vibration is present
- Directional Motion Alarms - permits motion in one direction and alarms if motion is detected in the opposite direction
- Background motion from vegetation and water scenes is ignored
- PTZ compatible - eliminates false alarms when PTZ is operated
- Preset Sequencing - multiple motion masks and automatic preset sequencing permits multiple scenes to be analyzed with operator intervention
- Compatible with all camera technologies - color, monochrome and IR thermal imaging
- Outdoor Operation - day/night and poor weather
- Scheduled operation for fixed cameras
- Capable of a Probability of Detection > than 96% and Nuisance Alarm Rate less than 2 per day
- Alarms can be linked to CaseBuilder Incident Reporting System

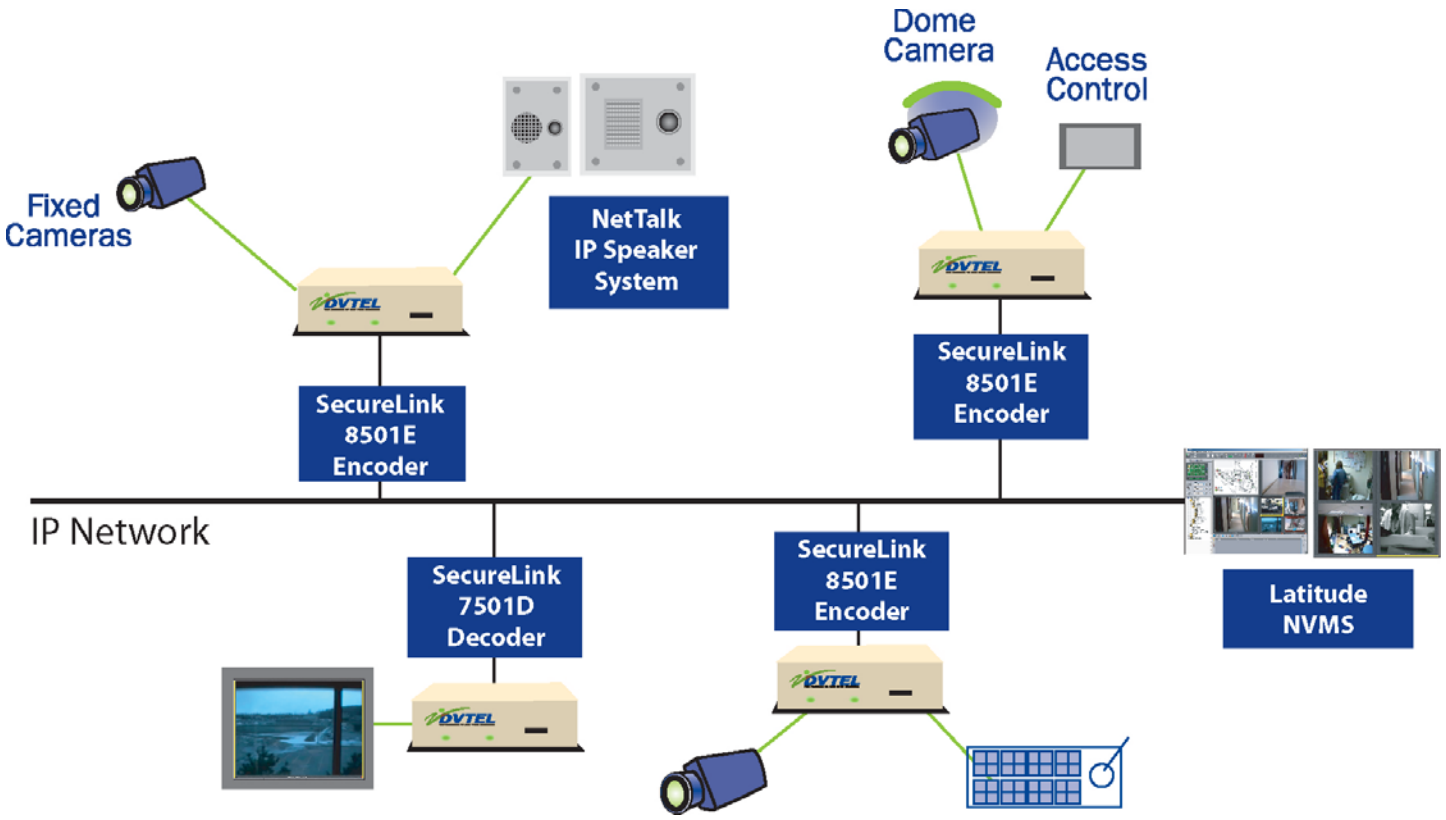
DVTEL
THE FREEDOM TO RUN YOUR BUSINESS

8500 Series product reference chart

Name	Part #	Cam/Mon In/out	Max Video Quality		Max view fps per camera	Max record fps per camera	PTZ Control	Network interface	Audio	Dry Contacts I/O	Serial
			(NTSC)	(PAL)	NTSC/PAL	NTSC/PAL					
Single Port Encoder	DVT-(L)8501E(A)	1	640x480	640x576	30/25	30/25	&	&	1 (opt)	3/1	RS-232/422/485

Encoders with an optional (L) version should be used when ordering with the Latitude Network Video Management (NVMS) series of products. Point-to-point applications do not require the (L) version. Audio is optional for all encoders.

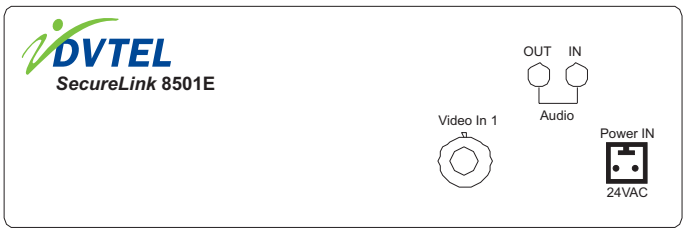
8500 Series Configuration Example

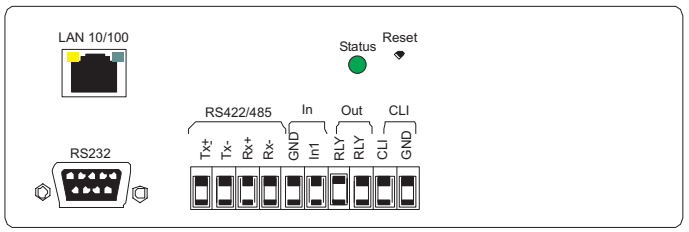


Technical Specifications

Network	
Interface:	Ethernet 10/100Base-T
Connector:	RJ-45
Protocols:	Transport: RTP/IP, UDP/IP, TCP/IP with full Multi-Cast Support Others: DNS and DHCP Client SSL-Based Authentication
Security:	
Video	1 composite
Input:	1 Vpp into 75 ohms (NTSC/PAL) BNC Female
Connectors:	MPEG-4 based
Compression:	Scalable from 352 x 240 to 640 x 480 NTSC (352 x 288 to 640 x 576 PAL)
Resolution:	1 - 30 FPS programmable NTSC (full motion) (1 - 25 FPS PAL)
Frame Rate:	Configurable between 30 Kbps and 4 Mbps
Bandwidth:	
Alarm and Audio	Input: 1 Dry Contact Output: 1 Relay Contact (48V AC/DC at 100 mA maximum)
Alarm:	Input: -46 to -3 dBV into 1 kOHM Output: -46 to -3 dBV into 16 ohms minimum
Bi-Directional Audio:	0.14 in (3.5 mm) input and output stereo jacks
Audio Connectors:	
Warranty Information	1-year limited warranty

Serial Port	
Electrical Levels:	Port 1: RS-232 (maximum 230 Kbps) on same port
Connectors:	Port 1: DB-9 Pluggable screw-terminal strip
Operating Mode:	Transparent serial port supporting any asynchronous serial protocol (specific protocol emulation may be supported on request)
Power	24V AC+/- 10%
Supply Voltage:	.75A
Consumption:	
Physical Dimensions	Metal case with flange mount (black color)
Enclosure:	4.52L x 5.6W x 2.17H in (115L x 142W x 55H mm)
Size:	1.67 lbs (0.76 kg)
Weight:	32°F to 122°F (0°Cto 50°C)
Environment:	95% non-condensing at 122°F (50°C)
Humidity:	
Management	Remote: via SecureLink Encoder/Decoder Configurator or Telnet Local: via Serial Port using any ASCII terminal
Configuration:	
Firmware Upgrade:	Flash memory for upgrade of video encoder and application firmware over the network
Certification and Regulation	FCC Part 15 (subpart B, Class A), ICES-003/NMB-003
USA:	CE marked, EN 55022:1998 Class A, EN 55024





DVTel, Inc. 65 Challenger Road, Ridgefield Park, NJ 07660 Telephone: (201) 368-9700 Fax: (201) 368-2615
DVTel UK 7 Lake End Court, Taplow, Berkshire SI6 0JQ Telephone: +44 870-2400-716 Fax: +44 162-8669-055

DVTEL
THE FREEDOM TO RUN YOUR BUSINESS