SecureLink Imaging Solutions
9600 and 9700 Series - IP Dome System

Product Description:

The SecureLink 9600 and 9700 Series is a component of the Latitude Network Video Management System (NVMS) and SecureLink Imaging Solutions product lines. This series of industrial-grade IP based video and audio dome camera systems were designed to meet the toughest surveillance applications with a full set of programmable camera features including day/night camera options with high infrared sensitivity for no-visibile light applications. High speed precision camera presets, tours, privacy zones and user friendly on-screen programming are all standard, making the SecureLink dome series the most advanced IP surveillance product in the industry.

The 9600 and 9700 series dome systems utilize 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. In addition, the web browser interface permits the SecureLink dome to be controlled remotely in point-to-point applications.

The SecureLink Dome Camera series' plug-and-play design and combined with the Latitude NVMS's auto-discovery feature ensures rapid installation and low maintenance costs. The SecureLink 9600 and 9700 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 Dome Camera series immediately increases return on investment and reduces total cost of ownership. The SecureLink 9600 and 9700 system is designed with open standards, not proprietary standards like most DVRs, thus providing a future-proof investment. They are ideal products for applications such as hospitals, schools, airports, retail, transportation, casinos, prisons and industrial security and process control monitoring.

The 9600 and 9700 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 series 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 solutions.

Product Features:

- Dual-stream MPEG-4 for independent viewing and recording settings
- Multi-video resolution settings up to 4CIF (704 x 480 NTSC or 704 x 576 PAL)
- Remote access for configuration, viewing and control via standard web browser
- Multi-DSP image processing and precision optics for unparalleled clarity
- Multi zoom (22x12, 23x12) choices available
- Advanced 1/4" DSP CCD Camera
- Auto iris, auto focus and back-light compensation
- Wide dynamic range
- Bi-directional Audio
- Proportional high-speed pan and tilt and automatic flip
- 4 local / 1 system alarm inputs, 3 programmable relay outputs

- 64 presets, 3 patterns and 16 areas with titles
- 3 programmable privacy zones
- Programmable auto scan, auto sequence and home positions
- Easy to install - quick and simple electrical connections
- Built-in surge and lightning protection
- Exceeds IP66 and NEMA 4X Specifications
- Anti-ice & Anti-mist, built-in heater and air circulating system (outdoor only)
- Vandal-resistant option available (polycarbonate)
- Power over Ethernet support via power accessory (Indoor only)
- Mounting options include ceiling, wall, pendant, corner and over-the-roof mounts
- Multiple languages supported
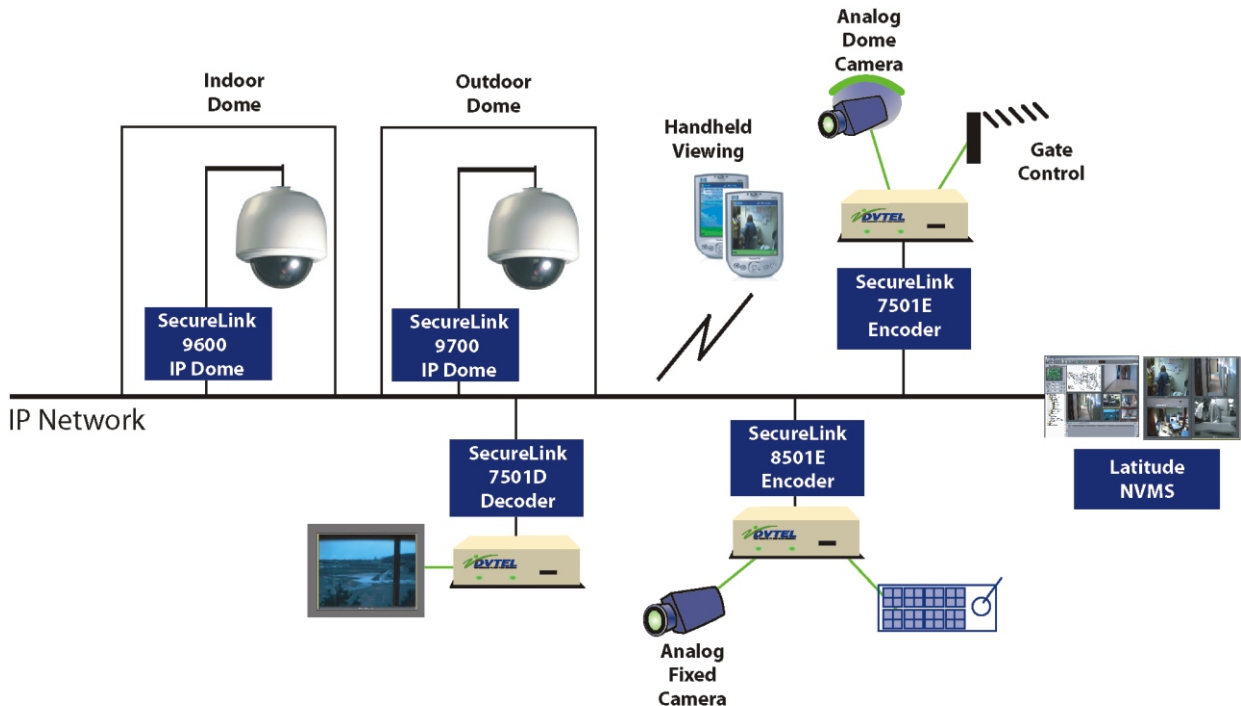
9600 and 9700 Series product reference chart

Name	Part #	Description
Indoor Cameras:		
Color - Ceiling Mount	DVT-9601-M4-22(N/P)	Multi-DSP High-Resolution >480 TVL 22x12 0.1 Lux color PTZ camera with Ethernet (CAT5) TCP/IP communications port utilizing MPEG-4 video compression algorithm at a maximum resolution of 704x480
Day/Night - Ceiling Mount	DVT-9601-M4-23(N/P)	Multi-DSP High-Resolution >480 TVL 23x12 0.1 Lux Day/Night (monochrome) PTZ camera with Ethernet (CAT5) TCP/IP communications port utilizing MPEG-4 video compression algorithm at a maximum resolution of 704x480
Color - Bracket Mount	DVT-9605-M4-22(N/P)	Multi-DSP High-Resolution >480 TVL 22x12 0.1 Lux color PTZ camera with Ethernet (CAT5) TCP/IP communications port utilizing MPEG-4 video compression algorithm at a maximum resolution of 704x480
Day/Night - Bracket Mount	DVT-9605-M4-23(N/P)	Multi-DSP High-Resolution >480 TVL 23x12 0.1 Lux Day/Night (monochrome) PTZ camera with Ethernet (CAT5) TCP/IP communications port utilizing MPEG-4 video compression algorithm at a maximum resolution of 704x480
Outdoor Cameras:		
Color - Bracket Mount	DVT-9705-M4-22(N/P)	Multi-DSP High-Resolution >480 TVL 22x12 0.1 Lux color PTZ camera with Ethernet (CAT5) TCP/IP communications port utilizing MPEG-4 video compression algorithm at a maximum resolution of 704x480
Day/Night - Bracket Mount	DVT-9705-M4-23(N/P)	Multi-DSP High-Resolution >480 TVL 23x12 0.1 Lux Day/Night (monochrome) PTZ camera with Ethernet (CAT5) TCP/IP communications port utilizing MPEG-4 video compression algorithm at a maximum resolution of 704x480

Please use N when ordering the NTSC version. Please use P when ordering the PAL version.

Dome Camera Series Accessories

Name	Part #	Description
Wall Mount	DVT-DCM-WALL	Wall mount kit for 9600 and 9700 Series Dome Cameras
Corner Mount	DVT-DCM-CORNER	Corner mount kit for 9600 and 9700 Series Dome Cameras
Over Roof Mount	DVT-DCM-ROOF	Roof mount kit for 9600 and 9700 Series Dome Cameras
Pole Mount	DVT-DCM-POLE	Pole mount kit for 9600 and 9700 Series Dome Cameras
Pendant Mount	DVT-DCM-PENDANT	Pendant mount kit for 9600 and 9700 Series Dome Cameras

9600 and 9700 Series Configuration Example

General

Optical Zoom	22x, 23x
Digital Zoom	12x (on all versions)
Zoom Pause	22x (Default)
Zoom Selectable	22x, 44x, 66x, 88x, 110x, 132x, 154x, 176x, 198x and 220x Programable presets
Total Zoom	276
TCP/IP addressing	Yes
RJ-45 Connector	1
Programable Patterns	3
Programable Areas	16

Mechanical

Manual Pan/Tilt Speed	0.1° - 100° Per Second (based on zoom position)
Preset Pan/Tilt Speed	280° per second, maximum
Pan Travel	360° Continuous
Tilt Travel	0 - 90°
Pan/Tilt Accuracy	±0.1°
Zoom/Focus Accuracy	±0.5%
Motor	Brushless Micro Stepping Motor

Auto Synchronization

	Digital No-Roll switching

Alarms and Triggers

Alarm Input	5
	4 Photo-couple contacts 7ma at 12VDC
	1 clamp (non isolated closure contact type), max 24V, Max activation resistance 10 ohm
Alarm Output	3
	2 Open Collector drives at 12VDC, 50mA
	1 clamp 30Vpp, 1A

Compliance

FCC	Part 15, Class B
UL	UL 1950
CE	IEC60950, En55024, En55022, En 55130
	En 55103 -1, -2
	En 61000-3, -2
	En 61000-3, -3
	AS/NZS 3260

Video

Video Standard	NTSC - PAL
Video Compression Standard	MPEG4 (ISO/IEC 14496)
Digital Video Data rate	
Video Resolution	64Kbit/Sec - 4Mbit/Sec CIF - (352x240NTSC) (352x288PAL) 2CIF - (704x240NTSC) (704x288PAL) 4CIF - (704x480NTSC) (704x576PAL)

Audio

Audio Standard	G.711; 300Hz - 3.4KHz
Digital Audio Data rate	64Kbit/Sec
Audio Encoder	Sampling Rate: 8KHz
Audio Interface In	1xMono line, 1Vpp 50K Ohm
Audio Interface Out	1xMono Line 1Vpp 60mW, Min 8Ohm

Communication

Network Protocols	RTP, RTCP, UDP, TCP, IP, HTTP, IGMP, ICMP, ARP, DHCP SNMP
Ethernet	10/100 Base-T autosensing, half/full duplex, RJ45

Configuration

Network	Latitude iSOC Admin Center Via WEB Browser, built-in web server

Electrical

	(Indoor)
Input Voltage	24VAC, 50/60Hz
Power Consumption	21W
Power On In-Rush Current	1.5Amps
	(Outdoor)
Input Voltage	24 VAC 50/60 Hz
Power Consumption	80 Watts

Environment

Indoor Operating Temp	0°~50°C 32°~122°F
Outdoor Operating Temp	-40°~50°C -40°~122°F
Storage Temp	0°~60°C 32°~140°F
Fan and Heater	Continuous fan; auto heater
Humidity	0~95% Non condensing

Recommended Mounting
Wall mount, corner mount, pole mount, pendant mount, in-ceiling mount, over-roof mount

Wall Mount

Corner Mount

Over Roof Mount

Pole Mount

Pendant Mount

In-Ceilling Mount

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MODEL	NTSC/PAL DOME Color	NTSC/PAL DOME Color Day-BW night switch
CAMERA BLOCK	HITACHI	HITACHI
SYNC MODE	DIGITAL*	DIGITAL*
IMAGE SENSOR	1/4" CCD	1/4" CCD
SCANNING SYSTEM	2:1 INTERLACING	1:1 PROGRESSIVE SCAN
PIXELS	470K:795(H)x596(V)	470K:795(H)x596(V)
RESOLUTION	>470 TV LINES**	>470 TVL/550 TV LINES**
WIDE DYNAMIC RANGE	OFF/ON	OFF/ON
MIRROR IMAGE FUNCTIONING	OFF/ON	OFF/ON
REMOVABLE IR CUT FILTER		OFF/ON, 1/3-1/4000
SENSITIVITY	0.1 LUX	COLOR DAY: 0.1 LUX
		MONO (NIGHT): 0.01LUX
SCENE MEMORY FUNCTION		OFF/ON
DSP	HITACHI DSP GEN. 5	HITACHI DSP GEN. 6
FOCUS	AUTO/MANUAL	AUTO/MANUAL
IRIS	AUTO/MANUAL	AUTO/MANUAL
ZOOM RATE	264X (OPTICAL 22X-DIGITAL 12X)	276X (OPTICAL 23X-DIGITAL 12X)
LENS APERTURE	F1.6 TO F3.8	F1.6 TO F3.8
FOCAL LENGTH	F4 - 88MM	F3.6 - 82.8MM
FOCAL DISTANCE	0.01M (WIDE) - 1.0 (TELE)	0.01M (WIDE) - 1.0 (TELE)
VIEWING ANGLE	WIDE 47.3°/TELE 2.2°	WIDE 54° /TELE 2.5°
B.L.C.	AUTO	AUTO
WHITE BALANCE	AUTO/MANUAL (RED/BLUE GAIN LEVEL: UP-DOWN	
GAIN CONTROL	AUTO	
SIGNAL FORMAT	AUTO	
S/N	>50DB	
DIGITAL SLOW SHUTTER	YES	
VIDEO OUTPUT	DIGITAL TCP/IP MPEG4	
CAMERA BLOCK	HITACHI DIGITAL AUTO FOCUS	

* ROLL FREE NO ADJUSTMENT ON ANY LINE PHASE - IP CAMERAS SHALL NOT REQUIRE LINE PHASE SYNC
** EQUIVALENT TO ANALOG - DIGITAL VIDEO RESOLUTION AT A MAX RESOLUTION OF (704x480 NTSC, 704x576 PAL)

RECORDING AND NETWORK BANDWIDTH*	A SINGLE PTZ COLOR CAMERA WILL REQUIRE THE FOLLOWING DISK SPACE			
	~4 FPS	~7 FPS	15/12.5 FPS	30/25FPS
CIF (352x240 NTSC) (352x288 PAL)	48-128KB/SEC	128-384KB/SEC	256-768KB/SEC	512-1024KB/SEC
2CIF (704x240 NTSC) (704x288 PAL)	64-152KB/SEC	256-512KB/SEC	384-768KB/SEC	512-1536KB/SEC
4CIF (704x480 NTSC) (704x576 PAL)	96-192KB/SEC	384K-768B/SEC	512-1024KB/SEC	768-2048KB/SEC

* FOR NETWORK BANDWIDTH CALCULATION 20% NETWORK COMMUNICATION OVERHEAD SHALL BE ADDED TO THE ABOVE NUMBERS

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Specification sheet is subject to change without notice.