

ALTITUDE HIGH-RESOLUTION MPEG-4 NETWORK CAMERAS

9840 SERIES OF INDUSTRIAL PTZ-DOMES

The Altitude™ 9840 series of industrial-grade, high-resolution network based video and audio PTZ dome cameras incorporate the latest DSP technology for camera imaging to provide unparalleled video quality. This series of IP-based video and audio dome camera systems are 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 non-visible light applications. High-speed precision camera presets, tours, privacy windows and user friendly on-screen programming are all standard features. Available as ceiling, bracket, indoor and outdoor housing, the 9840 series is suited for the most demanding installations making the 9840 Dome Series the most advanced IP surveillance product in the industry.

The Altitude 9840 is the latest addition to our line of MPEG-4, 4CIF based IP cameras (704x480 NTSC, 704x576 PAL) with video resolution at a full frame rate of 30fps NTSC/ 25fps PAL. Using advancements in video compression technology, the 9840 provides high frame rate and high-resolution video, while maintaining a significantly lower file size and bandwidth requirements, compared to other image compression type of cameras. The 9840 PTZ Dome Camera utilizes IGMP Snooping (Layer-2 multicasting) technology, which enables a single stream to be transmitted to multiple viewers on the network simultaneously. Multicasting reduces bandwidth demands, allowing more cameras to be transmitted over the network than unicast based products, such as unicast IP cameras or DVRs, which require higher bandwidth.

The Altitude 9840 dual streaming technology combined with Latitude Network Video Management System's (NVMS™) Digital Virtual Matrix Switch allows independent settings for the live video and recorded streams. As a result, the camera can be set to be viewed at 30fps NTSC/25 PAL while recording at 15fps NTSC/12.5 PAL. This benefit, combined with the Latitude Virtual Matrix Switch's advanced features, presents the ability to replace the complete analog system with a digital one. An authorized user can select to observe the viewing stream, at a high frame rate and resolution, while the recording stream is being captured on the Latitude Media Archive Server storage system.

Using the ControlCenter and its applications live or recorded video can be viewed on a traditional analog monitor using the 7500 family of IP-based decoders. A networked decoder can be installed anywhere on the system to provide operation over analog CCTV monitor or for recording to a VCR or DVR.

The Altitude 9840 is fully compatible with the Adaptive Visualization Technology (AVT™) based SceneTracker™ system. SceneTracker permits multiple streams to be "stitched" together for real time situational awareness.

This addition to the Intelligent Security Operation Center (iSOC™) is designed for high-resolution video monitoring and recording. The Altitude 9840 IP Dome provides more than just high-resolution video, it also provides bi-directional audio, data and dry in and out contact alarms. By delivering dual video streaming, the Latitude NVMS Virtual Matrix Switch is able to achieve true matrix quality operations for live monitoring.



- Fully compatible with the AVT SceneTracker System
- Multicast, dual-stream MPEG-4 video for independent viewing and recording settings
- Multi video resolution settings at up to 4CIF 704x480 NTSC, 704x576 PAL at 30fps NTSC/25 PAL
- Multi Digital Signal Processing (DSP)
- Multi zoom (18x12, 22x12, 23x12 and 26x12) choices available
- Advanced 1/4" DSP CCD camera
- Auto iris, auto focus and back-light compensation
- Wide dynamic range
- Proportional high-speed pan and tilt and automatic flip
- 99 presets, 4 patterns and 16 areas with titles
- Eight programmable privacy sectors (22x models)
- Eight programmable privacy windows (23x and 26x models)
- Exceeds IP66 and NEMA-4X specifications
- Anti-ice & anti-mist, built-in heater and air circulation system (outdoor only)
- Vandal-resistant bubble option available polycarbonate)
- Power over Ethernet (PoE) support via high power PoE Injector/Splitter (Indoor models only)
- Mounting options include ceiling, wall, pendant, corner and over-the-roof mounts
- Remote access for configuration, viewing and control via standard web browser

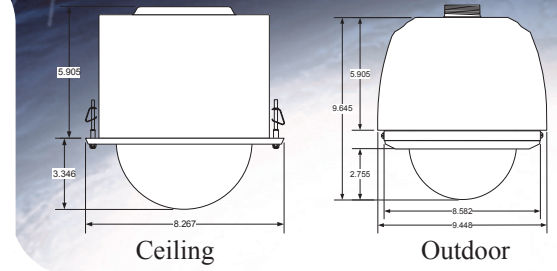


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General Specifications

General	Color		Color Day/Night	
	18x	22X	23X	26X
Image Sensor	1/4-inch CCD		1/4-inch CCD	
Video Resolution	480 TVL		470 TVL \ 550 TVL	480 TVL \ 550 TVL
Scanning system	2:1 Interlacing		2:1 Interlacing	
Pixel Array	758 (H) x 504 (V)	795 (H) x 596 (V)	795 (H) x 596 (V)	758 (H) x 504 (V)
Signal Processing	SONY EXview HAD	Hitachi DSP Gen.5	Hitachi DSP Gen.6	SONY EXview HAD
Min Illumination @ 35IRE	0.7 lux	0.1 lux	0.1 (Day) 0.01 (Night) lux	0.07 (Day) 0.01 (Night) lux
Digital Slow Shutter (DSS)	Yes		Yes	
Wide Dynamic Range	On/Off		On/Off	
White Balance	Auto/Manual		Auto/Manual	
Iris	Auto/Manual		Auto/Manual	
Focus	Auto/Manual		Auto/Manual	
Day/Night Mode	N/A		On/Off	
IR Cut filter	N/A		On/Off	
Backlight Compensation (BLC)	Automatic		Automatic	On/Off
Signal to Noise Ratio (SNR)	≥50dB		≥50dB	>50dB
Automatic Gain Control (AGC)	Yes		Yes	
Mirror Image Function	On/Off		On/Off	
Minimum Focal Distance	0.1m (wide) - 1.0m (tele)		0.1mm (wide) - 1.0mm (tele)	
Varifocal Length	4.1mm - 73.8mm	4.0mm - 88mm	3.6mm - 82.8mm	3.5mm - 91.0mm
Zoom Rate	Optical 18x - Digital 12x	Optical 22x - Digital 12x	Optical 23x - Digital 12x	Optical 26x - Digital 12x
Angle of View	Wide 48° / Tele 2.7°	Wide 47° / Tele 2.2°	Wide 54° / Tele 2.5°	Wide 55.0° / Tele 2.2°
Physical	Indoor Ceiling	Indoor Bracket	Outdoor Bracket	
Dimensions (Dia x H)	8.267" (Dia) x 9.296" (H) 210mm (Dia) x 236mm (H)	8.582" (Dia) x 10.433" (H) 218mm (Dia) x 265mm (H)	9.448 (Dia) x 11.220 (H) 234mm (Dia) x 285mm (H)	
Mount	N/A	1½" NPT	1½" NPT	
Unit Weight	7.2 Lbs (3.3Kg)	7.2 Lbs (3.3Kg)	7.2 Lbs (3.3Kg)	
Shipping Weight	13.2 Lbs (6.0Kg)	13.2 Lbs (6.0Kg)	13.2 Lbs (6.0Kg)	
Video				
Video Standard	NTSC / PAL			
Video Compression Standard	MPEG-4			
Frame Rate	1-30 FPS (NTSC), 1-25 FPS (PAL) in all Resolutions			
Video Resolution	Scalable from CIF-4CIF 352x240 to 704x480 (NTSC) 352x288 to 704x576 (PAL) in all frame rates			
Bandwidth	Configurable between 64 Kbps and 4 Mbps			
Communication				
Network Protocols	RTP/IP, UDP/IP, TCP/IP, or multicast IP, DNS and DHCP client			
Ethernet	10/100 Base-T Auto sensing, Half/Full Duplex (RJ45)			
Security	SSL			
Management				
Configuration	Remote: Via the Latitude AdminCenter, Web Access or Local: Telnet			
Regulatory (Pending)				
FCC	FCC part 15 (class B)			
CE	EN55022, EN55024, EN55130, EN55103-1, -2; EN61000-3, -2; EN61000-3, -3			
Warranty	2-year limited warranty, covering parts			



Alarm, Audio, Mechanical, Electrical, Environmental and Regulatory

Alarm	
Input	6 Dry Contacts (4 local, 2 system)
Output	3 Relays, 30VA, 1A (2 local, 1 system)
Camera Presets and Patterns	
Preset	99
Patterns	4
Audio	
Bi-directional Audio	Input: -20 to -3 dBV into 30 kilohms Output: -46 to -3 dBV into 16 ohms min.
Connector	0.14 in (3.5 MM) Input and Output Stereo Jacks via terminal block
Mechanical	
Manual Pan/Tilt Speed	0.1° - 120° per second (based on zoom position)
Preset Pan/Tilt Speed	360° per second, maximum
Pan Travel	360° Continuous
Tilt Travel	-5° - +90°
Pan/Tilt accuracy	±0.1°
Zoom/Focus Accuracy	±0.5°
Motor	Brushless micro stepping motor
Electrical	
Input Voltage	24VAC 50/60Hz or 12VDC
Power Consumption	25W (indoor) / 45W (outdoor) for 24VAC 22W (indoor) / 29W (outdoor) for 12VDC
Power Connector	2 pin terminal block
Environment	
Indoor Operating Temperature	32° F to 122° F (0° C to 50° C)
Outdoor Operating Temperature	-40° F to 140° F (-40° C to 60° C)
Storage Temperature	32° F to 140° F (0° C to 60° C)
Continuous fan, auto heater	Fan and Heater (outdoor version only)
Humidity	0 - 95% (non-condensing)
Ratings	IP66 and NEMA 4X Specifications

Accessories

Power Accessories	
DVT-PWR-24VAC	24V power supply (110V 60Hz) - Indoor only
7501D/DA	Single port Decoder (DA - with Audio)
7504D/DA	4-port Decoder (DA - with Audio)

Altitude 9840 Part number conversion table - DVT-9840(E/S/D/X)(I/O)(C/B)(C/S/V)-(N/P)(/12)

Example DVT-9840DIBC-N	Family	Resolution	Optics	Type	Mount	Bubble	Video Format	12VDC Option
DVT	98	40	E/S/D	I/O	C/B	C/S/V	N/P	/12
DVTel	98 - IP Dome	40 - 4CIF	E - Economy (18x) S - Standard (22x) D - Day/Night (23x) X - Extra Day/Night(26x)	I - Indoor O - Outdoor	C - Ceiling B - Bracket	C - Clear S - Smoked V - Vandal	N - NTSC P - PAL	- 24VAC 12 - 12VDC

12VDC option for all modules add "12" suffix to part number - no additional cost (e.g. DVT-9840DIBC-N12)

