

Altitude™ IPCAM9540 Progressive Scan Imaging Solution

A Series of High-Resolution MPEG-4 Network Cameras

The Altitude 9540 series of high-resolution, IP cameras incorporates Super Wide Dynamic Range CMOS imaging system to provide unparalleled image quality. The Altitude 9540 is available as standard (color) or Day/Night (BW) modes with a mechanical Infra Red (IR) cut filter for superior performance in “Night” mode. This leading-edge technology allows for both brightly lit and shadowed areas of an image to be clearly viewed simultaneously. This product has been designed to work seamlessly within a computer network by incorporating the 802.3af standard for Power over Ethernet (PoE).

The Altitude 9540 is the most recent addition to DVTel's line of MPEG-4, 4CIF-based IP cameras (704x480 NTSC, 704x576 PAL). At 4CIF, video resolution can be maintained at the full frame rate of 30fps NTSC/ 25fps PAL. Using advancements in video compression technology, the 9540 provides both high-frame rate and high-resolution video, while maintaining a significantly lower file size that requires less network bandwidth and storage space compared to other varieties of image compression cameras.

The Altitude 9540 IP 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 including unicast IP cameras and DVRs.

The Altitude 9540 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. 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 at a different rate. For example, a camera can be set to be viewed at 30fps NTSC/25 PAL while recording at 15fps NTSC/12.5 PAL. This, combined with Latitude NVMS Virtual Matrix Switch's advanced features, presents the ability to replace the complete analog system with a digital fully one.

Using the Latitude NVMS 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 9540 is fully compatible with the Adaptive Visualization Technology (AVT™) SceneTracker™ software. SceneTracker permits multiple video streams from separate cameras to be “stitched” together.

This addition to the Intelligent Security Operation Center (iSOCTM) is designed for high-resolution video monitoring and recording. The Altitude 9540 IP Camera provides more than just high-resolution video, it also provides dry contact and relay alarms.



- Fully compatible with the AVT SceneTracker System
- 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)
- PIXIM™ DPS Digital Pixel System
- 1/3” format CMOS imager with 752(H) x 554(V) pixels
- Super wide dynamic range (SWDR)
- Day/Night Option (Mechanical IR cut filter)
- Automatic white balance modes
- Automatic Gain Control (AGC)
- Automatic Electronic Shutter (AES)
- Advanced Back Light Compensation (BLC) capability
- C/CS lens mount
- DC auto iris lens compatibility
- 12VDC direct or 48 VDC 802.3af compliant
- Remote access for configuration, viewing and control via standard web browser



Altitude™ IPCAM 9540 Progressive Scan Imaging Solution

A Series of High-Resolution MPEG-4 Network Cameras

Camera and Imaging Specifications

General	Super Wide Dynamic Range (Color)	Super Wide Dynamic Range (Day/Night)
Imager	1/3-inch CMOS, Pixim™ Orca Sensor	1/3-inch CMOS, Pixim™ Orca Sensor
Scanning System	480+ TVL	480+ TVL Color / 570 TVL BW
Pixel Array	742 (H) x 554 (V)	742 (H) x 554 (V)
Signal Processing	DSP	DSP
Minimum Illumination	0.5 Lux at 40 IRE, F1.2	0.5(C), 0.05(BW) Lux at 40 IRE, F1.2
Digital Slow Shutter (DSS)	2x (default) - 32x	2x (default) - 32x
Super Wide Dynamic Range	102dB Typical, 120dB Maximum	102dB Typical, 120dB Maximum
White Balance	Automatic White Balance	Automatic White Balance
White Balance Range - Normal (Extended)	2,200-7,500 K (2,000—11,000 K)	2,200-7,500 K (2,000—11,000 K)
Iris Control	Automatic DC-Drive	Automatic DC-Drive
Day/Night Mode (Mechanical IR cut filter)	On/Off	On/Off
Backlight Compensation	On/Off	On/Off
Signal to Noise Ratio (SNR)	>48dB	>48dB

Lens Specifications (CS Mount)

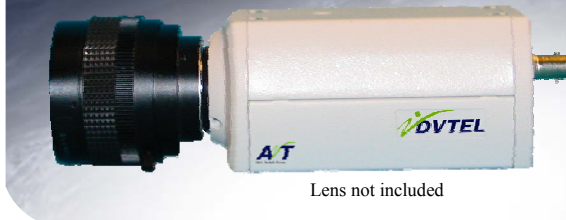
General	DVT-LENS-VM3514	DVT-LENS-VM5013	DVT-LENS-VA2813	DVT-LENS-VA3514	DVT-LENS-VA5013
Mount	CS	CS	CS	CS	CS
Verifocal Length	3.5mm - 8.0mm	5.0mm - 50.0mm	2.5mm - 12.0mm	3.5mm - 8.0mm	5.0mm - 50.0mm
F-Stop	F1.4 ~ 360	F1.3 ~ 360	F1.3 ~ 360	F1.4 ~ 360	F1.3 ~ 360
Controls	Iris & Focus	Iris & Focus	Iris & Focus	Iris & Focus	Iris & Focus

Camera and Encoder Specifications

Video	
Video Standard	NTSC / PAL
Video Compression Standard	MPEG-4
Frame Rate	1-30 FPS (NTSC) in all Resolutions 1-25 FPS (PAL) in all Resolutions
Video Resolution	Scalable from CIF to 4CIF 352x240 to 704x480 (NTSC) 352x288 to 704x576 (PAL)
Bandwidth	Configurable between 64 Kbps and 6 Mbps
Communication	
Network Protocols	RTP, RTCP, UDP, TCP, IP, HTTP, IGMP, ARP, SNMP also support DNS and DHCP
Ethernet	10/100 Base-T Auto sensing, Half/Full Duplex (RJ45)
Security	SSL
Alarm	
Input	1 Dry Contact
Output	1 Relay Contact, 48V AC/DC at 100mA max
Management	
Configuration	Remote: Via the Latitude AdminCenter or Web Access
Firmware Upgrade	Flash memory for upgrade of video codec and application firmware over the network

Altitude 9540 Part number conversion table - DVT-9540(S/D)W

	Family	Resolution	Lens	Optics	Construction
DVT	95	4	0	S/D	W
DVTel	95 - box style camera	4 - 4CIF	Reserved for future use	S - Standard (Color) D - Day/Night (Color/BW)	W - SWDR (Super Wide Dynamic Range CMOS)



Physical, Electrical, Environmental and Regulatory

Physical	
Enclosure	Metal case with 1/4-inch UNC-20 screw, located on the bottom of camera housing; built-in video rotation;
Dimensions (W x D x H)	3" x 5.5" x 2.2" 74mm x 130mm x 53mm
Unit Weight	1.2 Lbs. (0.6Kg)
Unit Shipping Weight	3.2 Lbs. (1.5Kg)
Electrical	
Input Voltage	802.3af Class 3 PoE standard or 12VDC ±10%
Power Consumption	5W
Power Connector	2-pin 2.5mm plug or Ethernet Cable
Environment	
Indoor Operating Temperature	32° F to 122° F (0° C to 50° C)
Storage Temperature	32° F to 140° F (0° C to 60° C)
Humidity	95% (non-condensing)
Regulatory (Pending)	
USA	FCC part 15 (subpart B, class A)
Europe	CE marked, EN55022-1998 Class A, EN55024
Canada	ICES-003/NMB-003 Class A
Warranty	2-year limited warranty, covering parts

Latitude NVMS Software Options

Latitude software packages		
Latitude Classic	LAT35-C-DMC	LAT50-C-DMC
Latitude Elite	LAT35-EL-DMC	LAT50-EL-DMC
Latitude Enterprise	N/A	LAT50-EP-DMC

Accessories

Power Accessories	
DVT-PWR-200W	12VDC 200W Power Supply
DVT-PWR-19W	12VDC 19W Power Supply
7501D/DA	Single port Decoder (DA - with Audio)
7504D/DA	4-port Decoder (DA - with Audio)

