

# Altitude 9420 Series Network Cameras

## 1/4 Inch CMOS VGA, Impact and Tamper Resistent Indoor Surface Mini-Dome Camera

The Altitude 9420 high resolution network cameras offer advanced IP features and performance, with full frame-rate, high-resolution real-time MPEG-4 which delivers the highest picture quality at the lowest storage costs and at a price point that is competitive with legacy analog cameras and IP encoders.

The 9420 provides dual stream MPEG-4/MJPEG up to VGA resolution with frame rates of up to 30 fps. Using a sophisticated DSP, this fully digital camera provides both high-frame rate and superior image quality and color reproduction, while maintaining a significantly lower file size. This efficient compression requires less network bandwidth and storage space as compared to other network cameras.

The Altitude 9420 network camera utilizes the latest in networking technology. The multicasting option reduces bandwidth demands allowing more cameras to be transmitted over the network than unicast based products. These cameras eliminate the coaxial cables associated with legacy cameras and IP encoders and operate with a single CAT5 cable using standards based 802.3af Power over Ethernet.

Enhancing the value and performance of the 9420 and its progressive scan VGA CMOS imager is a premium quality integrated 2.9 -10.0mm varifocal lens with an ultra-fast f1.2 aperture that delivers razor sharp images even in low light. The new digital iris enhances long term reliability by eliminating the DC servo iris mechanism which contains the only moving parts remaining in today's camera systems.

The 9420 provides more than just high-resolution video; it also provides an integrated microphone for professional grade audio input as well as a digital input and output. The 9420 also includes a comprehensive web application permitting remote viewing and management from anywhere with just a web browser and includes such advanced features as multi-zoned motion detection with video and snap-shot email notifications, high quality audio monitoring, and OSD camera name, date, time and motion detection alarms. Designed for secure LAN and WAN connectivity and monitoring, the embedded VeriSign security certificate and integrated user management provide a high level of authentication without the worry of having to override browser security levels to access the built-in browser application.

Whether part of a networked security system or as a standalone camera for remote viewing, the Altitude 9420 is the best value network camera on the market.



- ISO Standard MPEG-4 Video Compression
- Dual Video Stream (MPEG-4 and/or MJPEG)
- Web Interface for live viewing and configuration
- Full Web Application provides:
  - Three Zone Video Motion Detection
  - Five Privacy Windows
  - Event and scheduled recording to local drive or Network Attached Storage (NAS)
  - Local Client manual recording
- 1/4" VGA Progressive Scan CMOS imager
- 0.5 Lux, low light performance
- 2.9- 10.0 mm F1.2, varifocal fixed iris lens
- Automatic white balance (AWB)
- Automatic Gain Control (AGC)
- Automatic Electronic Shutter (AES )
- Digital Electronic Iris (DEI)
- Electronic Rolling Shutter (ERS)
- Digital I/O (in/out)
- Bi-Directional Audio Input / Output
  - Supports External or Built in microphone
- PIR for human detection alarm
- Rugged Polycarbonate/ABS Shell
  - Removable side conduit mouse holes
  - Built in cable management
  - Polycarbonate bubble
- Tamper resistant screws
- 12VDC and 802.3af compliant PoE
- Optional Recessed Ceiling Kit



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## Camera and Imaging Specifications

### Camera

Imager	¼" VGA Progressive Scan CMOS imager
Pixel Array	640 (H) x 480 (V)
Signal Processing	DSP
Minimum Illumination	0.5 Lux at 40 IRE, F1.2
Automatic White Balance (AWB)	On/Off
Automatic Gain Control (AGC)	On/Off
Automatic Electronic Shutter (AES)	1/60 to 1/15,000 sec.
Flip & Mirror	On/Off
Iris Control	Manual
Signal to Noise Ratio (SNR)	>48dB
Color / Black & White	Manual

### Lens Specifications

Mount	Board mounted
Varifocal Length	2.9 mm - 10.0 mm
F-Stop	F1.2
Controls	Fixed Iris, Manual Zoom & Focus

## Camera and Encoder Specifications

### Video

Video Compression Standard	ISO MPEG-4 and MJPEG
Frame Rate (Total)	1-30 FPS in all Resolutions - 60 Hz 1-25 FPS in all Resolutions - 50 Hz
Video Resolution	Scalable from CIF to VGA
Bandwidth	Configurable between 64 Kbps and 4 Mbps

### Audio

Integrated Microphone	Omni-directional with audio mute control
Audio Compression	GSM, MPEG-4
Frequency	50~16000Hz
Signal to Noise Ratio (SNR)	>60dB

### Communication

Network Protocols	UPnP, TCP/IP, RTSP/RTP/RTCP, HTTP, SMTP, FTP, Telnet, NTP, DNS, DDNS, DHCP
Ethernet	10/100 Base-T Auto sensing, Half/Full Duplex (RJ45)

### Alarm

Input	1 Digital In; PIR alarm
Output	1 Digital Out

### Management

Configuration	Remote: Via the Web Access or management software
Firmware Upgrade	Flash memory for upgrade of video codec and application firmware over the network

## Altitude 9420 Part number conversion table - DVT-9420

	Family	Type	Lens
DVT	94	2	0
DVTel	94 - Mini Dome Style	2 - Value Series	0 - Base Model



## Physical, Electrical, Environmental and Regulatory

### System Hardware

Flash Memory	8MB
RAM	64MB

### Physical

Enclosure	Plastic Surface Mount with polycarbonate bubble
Recessed Kit	DVT9420-RKIT for recessed ceiling installation
Camera Gimbal (Pan x Rotate, Tilt)	360° x 360° x 85°
Dimensions (D x H)	6.00" dia x 4.60" 152.4 mm x 116mm
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	2.5mm plug or Ethernet Cable
Power Supply	12V DC power supply included

### 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

USA	FCC part 15 (subpart B, class A) UL/cUL: UL60950-1; CAN/CSA-C22.2
Europe	CE marked, EN55022-1998 Class A, EN55024

### Warranty

Warranty	2-year limited warranty, covering parts
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### Compatibility

#### Software packages

Latitude NVMS 5.0	Version 5.1 Sp3 (MPEG-4) and greater
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#### Hardware Accessories

DVT-9420-RKIT	Recessed Ceiling Kit, 9420
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