

# Altitude 9460A Pro-Series

## Vandal Resistant Mini-Dome Network Cameras

### 1/3 Inch 4CIF High-Resolution CMOS Super WDR and 4CIF High-Resolution CCD True Day/Night Models

The 9460 Series Vandal Resistant Mini-domes provides the most rugged construction of any camera on the market. A durable polycarbonate bubble is securely mounted to the lid and is internally supported to protect against bubble "knock-ins". The modular construction allows for multiple mounting options – recessed, ceiling, surface or even pendant mounted using a wide variety of brackets. All models are suitable for both indoor and outdoor operation and are IP67 rated for protection against both weather and dust intrusion.

The 9460 series is feature rich and easy to install. The all aluminum surface mount ring is extremely strong and can be mounted directly to a surface with both side and rear conduit access or onto a 4S electrical box. The recessed unit has fold out wings for easy installation. The bubble assembly is keyed for easy installation with captive security screws. Additionally the 9460 comes with both 12VDC and 802.3af PoE power options standard.

The 9460 series have the widest range of imaging options with both High Resolution True Day/Night and Super Wide Dynamic Range with True Day/Night camera models with lens options of 2.9-10mm and 9-22mm to provide a solution to virtually any lighting environment. The WDR cameras are equipped with a 2x digital zoom directly from the imager which increases the effective lens capability from 2.9mm up to 44mm. In addition to superior image quality, the Altitude 9460 provides bi-directional audio, serial data communications an alarm input and output. These system features make the 9460 an ideal camera for any security or surveillance system.

Using advancements in video compression technology, the 9460 provides both high-frame rate and high-resolution video, while maintaining a significantly lower file size that requires less bandwidth as compared to other varieties of network cameras. The dual stream MPEG-4 encoding permits 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. In addition, the support of multicasting technology, which enables a single stream to be transmitted to multiple viewers on the network simultaneously, reduces bandwidth demands and allows more cameras to be transmitted over the network than unicast based IP cameras and DVRs.

The combination of leading edge technology, network and storage efficiency, and superior image quality makes the 9460 series mini-domes the most advanced vandal resistant network cameras available today.



- 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/25fps PAL
- Unicast or Multicast (IGMP Snooping, Level 2)
- Multi-Digital Signal Processing (DSP)
- Bi-directional Audio
- 2 Alarm Inputs/ 1 Relay Output
- Serial ports RS232/485
- Imager options:
  - Sony HQ-1 DSP with 1/3" format CCD imager with 768 (H) x 494(V) pixels with 540 TV Lines
  - Pixim DPS with 1/3" format CMOS imager with 720(H) x 540(V) pixels with 500+ TV Lines
- DC auto iris, varifocal 2.9 - 10.0mm and 9 - 22.0mm lens options
  - Mechanical IR Cut-filter for IR sensitivity
- Clear and smoked bubble options
- Removable camera shroud to conceal camera position
- Automatic white balance (AWB)
- Automatic Gain Control (AGC)
- Advanced Back Light Compensation (BLC)
- Day/Night mode - two levels
- Indoor/Outdoor recessed, surface and pendent mounts
- Surface mount to any flat surface or 4S box
- Recess mount with captive foldout wings
- Pendant mount with 1 1/2" NTP bracket interface
- IP 67 and NEMA 4 rated in all mounting configurations
- Impact and scratch resistant polycarbonate bubble
- 3/4" NTP standard conduit openings on side and rear
- 12VDC or 802.3af (48VDC) Power over Ethernet (PoE)
- Remote access for configuration, viewing and control via system software or standard web browser



# Altitude 9460A Pro-Series

## Vandal Resistant Mini-Dome Network Cameras

### General Specifications

General	Super Wide Dynamic Range (TW)	High Resolution Day/Night (TD)
Imager	1/2-inch CMOS, Pixim Orca Sensor	1/2-inch CCD, Sony HQ-1 DSP
Scanning System	500+ TVL	540 TVL Color / 570 TVL BW
Pixel Array	720 (H) x 540 (V)	NTSC 768(H) x 494(V)
Signal Processing	DSP	DSP
Minimum Illumination (Lux) (w/o IR illum.)	0.85 Color/0.40 B/W at 40 IRE, F1.2	0.5 Color/0.25 B/W at 40 IRE, F1.2
Digital Slow Shutter (DSS)	2x (default) - 32x	N/A
Super Wide Dynamic Range	120dB/17bit	N/A
White Balance	Automatic White Balance (AWB)	Automatic White Balance (AWB)
White Balance Range - Normal (Extended)	2200-7500 K (2000—11000 K)	2700-11000 K (2000—18000 K)
Iris Control	Automatic	Automatic
Day/Night Mode	On/Off	On/Off
Backlight Compensation (BLC)	On/Off	On/Off
Signal to Noise Ratio (SNR)	>42dB	50dB
Digital Zoom	2x	N/A
Power Consumption	9 Watts max	9 Watts max

### Lens Specifications

General	Option 2	Option 9
Verifocal Length	2.9mm - 10mm	9mm - 22mm
F-Stop	F1.2 ~ 360	F1.8 ~ 360
Field of View (H x V)	(Wide) 94.6° x 68.4° (Tele) 28.8° x 21.6°	(Wide) 30.7° x 22.7° (Tele) 14.1° x 10.6°
Min Illumination	0.5 Lux at 40 IRE, F1.2	1.0 Lux at 40 IRE, F1.8

### Digital Video Encoder Specifications

Video	
Video Standard	NTSC / PAL
Video Compression Standard	MPEG-4, ISO standard (SP), Dual Stream;
Frame Rate	1-30 FPS (NTSC) in all Resolutions; 1-25 FPS (PAL) in all Resolutions
Video Resolution	Scalable from 352x240 to 704x480 (NTSC) 352x288 to 704x576 (PAL)
Bandwidth	Configurable between 64 Kbps and 6 Mbps - total for both streams

### Communication

Network Protocols	Transport: RTP (Unicast/multicast), UDP (Unicast/multicast), TCP Others: DNS, NTP, HTTP server, IGMP V1/V2, FTP client, Telnet client and DHCP client
Ethernet	10/100 Base-T Auto sensing, Half/Full Duplex

### Alarm

Input (Via Accessory Cable)	2 Dry Contacts
Output (Via accessory Cable)	1 Relay Contact, 60V AC/DC at 500 mA max.

### Audio

Bi-directional Audio (via accessory cable)	Input: -46 to -3 dBV into 30 KOhm Output: -46 to -3 dBV into 16 Ohms minimum Sampling Rate: 8khz, 32khz
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### Management

Configuration	Remote: Via system software or Web Access; Local: Telnet
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### Altitude 9460A Part number conversion table - DVT-9460A(S/R)(C/S)-(TD/TW)(2/9)(N/P)

Type	Family	Series	Mounting	Bubble	Camera	Lens	Video Std.	
DVT	94	60	A	S/R	C/S	TD/TW	2/9	N/P
DVTel	94 - Vandal Mini-Dome	6 - Pro	A - Series A Vandal	S - Surface R - Recessed	C - Clear S - Smoked	TD - True Day/Night (CCD) TW - SWDR/TDN (CMOS)	2 - 2.9-10.0mm 9 - 9.0-22mm	N - NTSC P - PAL



### Physical, Electrical, Environmental and Regulatory

#### Physical

Dimensions (Dia x H)	7.65" (194mm) Dia. x 5.75 (146mm) H
Bubble Thickness	0.1" (2.5mm)
Bubble F-Stop	F0.0 - Clear bubble F1.0 - Smoked (tinted) bubble
Pan, Rotate and Tilt	360, 360 and +/-90 deg
Unit Weight Recessed/Surface	2.5 Lbs. (1.2Kg) / 4.5 Lbs. (2.0Kg)
Unit Shipping Weight	3.5 Lbs. (1.6Kg) / 5.5 Lbs. (2.5Kg)

#### Electrical

Input Voltage	12VDC ± 10% or 802.3af class 3 PoE (48VDC)
Power Consumption	12VDC: 8W, 0.7A   PoE: 9W (class3)
Power Connector (12VDC)	2-pin Terminal block

#### Environment

Operating Temperature	-22° F to 122° F (-20° C to 50° C)
Storage Temperature	-22° F to 140° F (-30° C to 60° C)
Humidity	90% (non-condensing)

#### Regulatory

USA	FCC part 15 (subpart B, class A)
Europe	CE marked, EN55022, EN55024

#### Warranty

Warranty	2-year limited warranty, covering parts
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### Ordering Information

#### Optional Mount (order with recessed models)

DVT-9460-PND	Pendant Housing, 1/1/2" NPT thread -Brackets sold separately
DVT-9460-CNR	Corner Mount
DVT-9460-RCP	Recessed Ceiling Support Plate

#### Accessory Cables

CAB-9460-BNC	Cable, Service Jack for analog video output (1 cable free per 10 cameras)
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#### Decoders Compatibility

DVT-7401DA	Single port Decoder with Audio
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#### Software Compatibility

Latitude NVMS 5.0	Version 5.2 Sp1 and later
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