

# Altitude 9480 AVT Megapixel Series

## Vandal Resistant Mini-Dome Network Cameras

### 16CIF Megapixel Resolution, Dual Stream MPEG-4

The 9480 Series Vandal Resistant 16CIF Megapixel Mini-domes are the latest in the series of network cameras which are powered by DVTel's unique Adaptive Visualization Technology or AVT. These edge based AVT algorithms automatically adjust the picture to maintain the highest image quality and frame rate under a wide range of surveillance environments. They provide highly efficient dual MPEG-4 video streams with low bandwidth and storage costs that are a fraction of that of an MJPEG camera.

Many Megapixel cameras today offer bandwidth management "features" that force a compromise on frame rates, resolution or image quality to overcome the extreme inefficiency of their MJPEG compression. The wasteful MJPEG bandwidth also chokes even the most powerful workstations permitting only a few full resolution images to be viewed simultaneously. To overcome these limitations, DVTel's AVT megapixel cameras provide the highest quality 16CIF imagery at the bandwidth and storage costs usually associated with legacy VGA MJPEG cameras making the 9480 the first truly practical Megapixel camera worth considering for general use.

The 9480 series makes no compromise on optical performance with an ultra-sharp 2.9 - 10mm, auto iris, varifocal F1.2 day/night lens. With the built-in IR cut-filter, the 9480 is well suited to both indoor and outdoor situations. In addition to superior image quality, the Altitude 9480 provides bi-directional audio, serial data communications an alarm input and output. These system features make the 9480 an ideal camera for any security or surveillance system.

Structurally engineered to prevail under the most extreme conditions, the 9480 incorporates the most rugged construction details of any ultra-high resolution 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 9480 series is feature rich and easy to install. The all aluminum surface mount ring is attractively finished, extremely robust, 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 quick installation without the need for an additional accessory kit. The bubble assembly is keyed for easy installation with captive security screws. Additionally the 9480 comes with both 12VDC and 802.3af PoE power options standard.

The combination of leading edge technology, network and storage efficiency, robust construction and superior image quality makes the 9480 series 16CIF megapixel mini-domes the most advanced vandal resistant network cameras available today.



- Dual-stream 16CIF MPEG-4 video for independent viewing and recording settings
- Adaptive Visualization Technology (AVT) picture enhancements
- Multi video resolution settings at up to 16CIF
- Unicast or Multicast (IGMP Snooping, Level 2)
- Multi-Digital Signal Processing (DSP)
- Micron CMOS image sensor
- Ultra-sharp 2.9 - 10.0mm, F1.2, auto iris, varifocal day/night lens
- True Day/Night (IR sensitive)
  - Manual Switch Over Control
- Automatic white balance (AWB)
- Automatic Gain Control (AGC)
- Back Light Compensation (auto, 10 preset zones)
- Bi-directional Audio
- Alarm Inputs/Output
- Serial ports (RS232/RS485)
- Clear and smoked bubble options
- Removable camera shroud to conceal camera position
- Indoor/Outdoor recessed, surface and pendant mounts
- Surface mount to any flat surface or 4S box
- Recess mount with captive foldout wings
- Pendant mount with 1½" NPT bracket interface
- IP 67 and NEMA 4 rated in all mounting configurations
- Impact and scratch resistant polycarbonate bubble
- ¾" NPT 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, configuration tool, telnet or standard web browser



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## Vandal Resistant Mini-Dome Network Cameras

### General Specifications

General	
Imager	1/3-inch 1.3MP Micron CMOS
Scanning System	Progressive Scan
Pixel Array	1280(H) x 1024(V)
Signal Processing	Multi-DSP
Minimum Illumination	1.0 Lux Color; 0.4 Lux B/W
White Balance	Automatic, Presets
Back Light Compensation	Yes
Automatic Gain Control	Yes - 3 levels
Iris Control	Fully Integrated Auto Iris
Shutter Speed	Auto, Manual
Day/Night	Manual
Digital Electronic Light Control	192,000:1

### Lens Specifications

General	
	Auto-Iris, Manual Focus, Manual Zoom
Vari-focal Length	2.9mm - 10mm
F-Stop	F1.2 ~ 360
Field of View (H x V)	(Wide) 94.6° x 68.4° (Tele) 28.8° x 21.6°

### Digital Video Encoding Specifications

Video	
Video	16CIF Progressive Scan, 50/60hz auto-sensing, flicker compensation
Video Compression Standard	ISO MPEG-4 (SP), Dual Stream
Frame Rate	1-30 FPS - 640 x 512 1-15 FPS - 800 x 640 1-12 FPS - 16CIF (1280 x 1024)
Video Resolution	Primary Stream: Scalable from 320 x 256 to 16CIF (1280 x 1024) Secondary Stream: Full, 1/2 and 1/4 resolution of Primary Stream
Bandwidth	Configurable between 64 Kbps and 6 Mbps - total for both streams

### Communication

Network Protocols	RTP/IP, UDP/IP, TCP/IP, or multicast IP, DNS, NTP, Telnet client, and DHCP client
Ethernet	10/100 Base-T Auto sensing, Half/Full Duplex (RJ45)
Serial Ports	RS232/RS485 via accessory cables

### Alarm

Input	2 Dry Contacts
Output	1 Relay Contact, 30VDC, 1A; 60VAC, 0.5A

### Audio

Bi-directional	Input: Line In, Mic In; 8 / 32 khz sampling rate Output: -46 to -3 dBV into 16 ohms minimum
Compression	G.711, mono

### Management

Configuration	Via System Software, Configuration Tool, telnet or standard web browser (Internet Explorer 6.0 and later)
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### Altitude 9480 Part number conversion table - DVT9480A(S/R)C-M1S2

Family	Series	Version	Mounting	Bubble	Camera	Lens
DVT	94	80	A	S/R	C/T	- TD 2
DVTel	94 - Vandal Mini-Dome	80 - AVT/MP Series	A- Ver. A	S - Surface R - Recessed	C - Clear T - Tinted (Smoked)	- True Day/Night 2 - 2.9-10.0mm



### 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 or 802.3af class 3 PoE (48VDC)
Power Consumption	12VDC, 7W, 0.6A   PoE, 8W (class3)
Power Connector (12VDC)	2-pin Terminal block

#### Environment

Operating Temperature	32° F to 122° F ( 0° C to 50° C)
Storage Temperature	-22° F to 140° F (-30° C to 60° C)
Humidity	90% (non-condensing)

#### Regulatory (pending)

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

#### Warranty

Parts Only	2 Year Limited Warranty
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### Ordering Information

#### Optional Mount (recessed mount only)

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

#### Software Compatibility

Latitude NVMS	Version 5.3
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