

Altitude 9580 AVT Megapixel Series Fixed Box-Style Network Cameras

16CIF Megapixel Resolution, Dual Stream MPEG-4

The 9580 Series 16CIF Megapixel fixed cameras 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 9580 the first truly practical Megapixel camera worth considering for general use.

The 9580 series supports a wide variety of C/CS mount DC Auto-Iris or manual iris lenses. With the built-in IR cut-filter, the 9580 is well suited to both indoor and outdoor situations. With the 9580, the highest resolution can be achieved using standard IR corrected lens for a cost effective solution. Megapixel rated lenses are not required. In addition to superior image quality, the Altitude 9580 provides bi-directional audio, serial data communications and alarm input and output. These system features make the 9580 an ideal camera for any security or surveillance system.

The 9580 series is feature rich and easy to install. The traditional metal body with top or bottom 1/4-20 mounts allows the camera to be easily mounted both indoors or in a wide range of outdoor camera enclosures. Additionally, the 9580 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 9580 series 16CIF megapixel fixed camera the most advanced network cameras available today.



Lens sold separately

- Dual-stream 16CIF Megapixel 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
- C/CS Lens Mount
- DC Auto Iris or Manual Iris lens support
- True Day/Night (IR sensitive)
 - Manual Switch Over Control
- Automatic white balance (AWB)
- Automatic Gain Control (AGC)
- Backlight Compensation (Auto, 10 preset zones)
- Bi-directional Audio
- 2 Alarm Inputs/1 Relay Output
- Serial ports (RS232/RS485) for PTZ control
- Metal Body with top or bottom 1/4 -20 mount
- 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



Altitude 9580 AVT Megapixel Series

Fixed Box-Style Network Cameras

Camera and Imaging Specifications

General

| | |
|----------------------------------|--|
| Imager | 1/4-inch 1.3MP Micron CMOS |
| Scanning System | Progressive Scan |
| Pixel Array | 1280(H) x 1024(V) |
| Signal Processing | Multi-DSP |
| Minimum Illumination | 1 Lux Color / 0.1 Lux Night mode @ F1.2. |
| White Balance | Automatic, Presets |
| Back Light Compensation | Auto, 10 Preset Zones |
| Automatic Gain Control | Yes - 3 levels |
| Iris Control | DC Auto Iris |
| Shutter Speed | Auto, Manual |
| Day/Night | Manual |
| Digital Electronic Light Control | 192,000:1 |

Digital Video Encoding Specifications

Video

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|----------------------------|--|
| 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

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|-------------------|---|
| 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 terminal block |

Alarm

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

Audio

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|----------------|--|
| 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

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|---------------|---|
| Configuration | Via System Software, Configuration Tool, telnet or standard web browser (Internet Explorer 6.0 and later) |
|---------------|---|

Altitude 9580 Part number conversion table - DVT9580A-MP1D

| | Type | Series | Version | - | Imager Options |
|-------|-----------------------|-----------------|-----------|---|-------------------------|
| DVT | 95 | 80 | A | - | MP1D |
| DVTel | 95 - box style camera | 80 - AVT Series | Version A | - | MP1D - 1.3MP, Day/Night |

Recommended Lens Specifications (CS Mount) (sold separately)

| DVT-LENS-VM03IR | DVT-LENS-VM85IR | DVT-LENS-VA28IR | DVT-LENS-VA03IR | DVT-LENS-VA75IR |
|--|---|--|---|--|
| Manual Iris, 3.0-8.5mm f1.0 Day/Night, IR Corrected | Manual Iris, 8.5-40.0mm f1.3 Day/Night, IR Corrected | DC Auto Iris, 2.8-12mm f1.2 Day/Night, IR Corrected | DC Auto Iris, 3.0-8.5mm f1.0 Day/Night, IR Corrected | DC Auto Iris, 7.5-50mm f1.3 Day/Night, IR Corrected |



Physical, Electrical, Environmental and Regulatory

Physical

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|------------------------|---|
| Enclosure | Metal case with 1/4-inch UNC-20 screw mount |
| Dimensions (W x D x H) | 2.6" x 4.1" x 2.4" 67mm x 105mm x 60mm |
| Unit Weight | 1.1 Lbs. (0.5Kg) |
| Unit Shipping Weight | 3.2 Lbs. (1.5Kg) |

Electrical

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|-------------------|---------------------------|
| Input Voltage | 12VDC ±10% or 802.3af PoE |
| Power Consumption | 8W |
| Power Connector | 12VDC Via terminal block |

Environment

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|------------------------------|---------------------------------|
| 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 | 90% (non-condensing) |

Regulatory (Pending)

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| USA | FCC part 15 (subpart B, class A) |
| Europe | CE marked, EN55022-1998 Class A, EN55024 |

Warranty

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

Software Compatibility

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| Latitude NVMS | Version. 5.3 or later |
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