

Altitude CM-3100 HD Mini-Dome Camera

High Definition/Megapixel Network Fixed Cameras



- **H.264**
- **Up to 30 FPS**
- **1.3 Megapixel/HD720p**
- **Wide Dynamic Range**
- **Bi-Directional Audio¹**
- **SD Slot Available²**
- **1 Alarm Input/1 Relay Output³**
- **Unicast or Multicast**
- **Vandal Resistant Bubble and Housing**
- **Surface Mount (Standard), Recessed, Corner and Pendant Mount options**
- **12VDC/24VAC and PoE Power Options**
- **IP66/NEMA 4 Rated**
- **Web Interface for Viewing, Configuration and Control**

1/3 Inch CCD High Definition H.264 Day/Night Camera with Wide Dynamic Range

The Altitude CM-3100 series are high definition resolution, fixed mini-dome IP cameras which utilize “motorized lenses” for ease of installation and configuration, incorporate a high-resolution, fully digital front end CCD imaging system and comes standard as a surface mount with a 3.3-12mm Day/Night option with a mechanical IR cut filter for infrared sensitivity, Wide Dynamic Range, and a list of mounting options for performance in most environments.

The Altitude CM-3100 cameras are ideal in both indoor and outdoor installations and all types of environments. This camera is the preferred choice for use in Airports, Detentions/Prisons, Municipal applications, Seaports, Tollway/Traffic installations and more

The CM-3100 reduces installation costs and features a unique no-tools modular snap-in chassis and advanced motorized vari-focal lens that can be fine-tuned via the network after the installation without going back out on the ladder or using a 2-man installation team. These features, as well as the fully automatic image quality settings, provide the highest image quality and consistent project results at the lowest possible installation costs.

The camera provides video streams in H.264 for up to 30 Frames Per Second (FPS) on one stream for viewing and recording with 100% image quality. This affords excellent image response and efficient bandwidth utilization.

In addition, DVTEL’s Scene Adaptive Algorithms provide the highest image quality at the lowest bandwidth and storage requirements.

Bi-directional audio is available for users to remotely listen in to the area surrounding the camera and communicate with visitors or intruders.¹

IEEE compliant, the entire Altitude Series of network cameras utilize the latest in multicast networking technology which enables a single stream to be transmitted to multiple viewers on the network simultaneously, further reducing bandwidth and providing more flexibility options for installation.

Power over Ethernet supplies power to the camera via the network, eliminating the need for additional cabling and reducing installation costs.

DVTEL offers a full line of IP cameras and encoders to meet your every need. Please see our IP Camera and Encoder Family Guide at www.dvtel.com/products/edge-devices to explore your options.

¹ Audio Out will be supported in future versions of Latitude NVMS and Solus VMS

² Edge recording support in future firmware versions

³ I/O pins will be supported in future versions of Latitude NVMS and Solus VMS

Altitude CM-3100 Series

Network High Definition Mini-Dome Cameras

General Specifications

Camera	Day/Night Color and WDR
Image Sensor	1/3" Sony WDR 1.3MP CCD
Sensor Resolution	1.3MP 1280 x 960
Scanning Mode	Progressive
Sensitivity	Color: 0.2 Lux @ F1.4 / Night Mode: 0.03 Lux @ F1.4
Lens Type	Vari-focal 3.3-12mm F1.4 Auto-iris Horizontal Viewing Angle: 24-90 degrees
Digital Slow Shutter (DSS)	1.5 to 1/10,000 with up to 32x Sensitivity Boost in Color or Night Mode
White Balance	Auto / Indoor / Outdoor
Backlight Compensation (BLC)	On/Off
Automatic Electronic Shutter (AES)	1.5 to 1/10,000 (Auto)
Digital 3D Noise Reduction	On/Off - 2 Levels
Iris Control	DC Auto
Day/Night Mode	Auto / On/Off
WDR	Yes / On/Off - 4 Levels
Mechanical IR Cut Filter	Yes
IR Sensitivity	Yes: 680 – 1100nm
Signal to Noise Ratio (SNR)	≥50dB
Video	
Compression	Fully Compliant H.264 (MPEG4 10), dual streaming
Performance	30 FPS @ 1280 x 720 (HD720p) , or 15fps @ 1280x960, or dual streaming with 15fps @HD720p + 30fps @D1
Resolution Range	Scalable from QCIF to 1280 x 960
Bandwidth	Configurable between 64 Kbps and 6 Mbps
Audio	
Bi-Directional Audio	Line In/Mic In/Line Out - G.711 and G.726 ¹
Audio Connections	Terminal block
Communication	
Network Protocols	Transport: RTP (Unicast/multicast), UDP (Unicast/multicast), TCP Others: DNS, HTTP server, IGMP V1/V2, Telnet client and DHCP client*
Ethernet	10/100 Base-T Auto sensing, Half/Full Duplex (RJ45)
Management	
Configuration	Remote: Via Web Access, or Supported Video Management Software
Firmware Upgrade	Flash memory for upgrade of camera firmware over the network
Regulatory	
USA	FCC part 15 (subpart B, class A) UL
Europe	CE marked, EN55022-1998 Class A, EN55024
Warranty	
	2-year limited warranty, covering parts



Altitude CM-3100 Series

Other Specifications

Alarm²	
Input	1 Dry Alarm Contact
Output	1 Relay Contact, 60V AC/DC at 1000mA max.
Physical	
Enclosure	IK10 Vandal Aluminum Casting with Polycarbonate Bubble Compatible with 4S Electrical Box Mounting
Dimensions (dia x H)	148mm diameter x 135mm height 5.8" diameter x 5.3" height
Unit Weight	2.0 Lbs. (0.9Kg)
Unit Shipping Weight	2.6 Lbs. (1.2Kg)
Mechanical	
Bubble Rating	IK10 Vandal Resistant Polycarbonate
Bubble F-Stop	F0.0: Clear bubble F1.0: Smoke bubble (option)
Pan, Rotate and Tilt	350, 350 and +/-90 deg
Electrical	
Input Voltage	12VDC/24VAC ±10% or 802.3af PoE or 802.3at PoE+
Power Consumption	7.5W
Power Connector	AC/DC Terminal block or PoE
Environment	
Operating Temperature	-22°F to 122°F (-30°C to 50°C)
Storage Temperature	-4° to 158° F (-20° to 70° C)
Humidity	95% (non-condensing)
Ratings	IP66 and NEMA 4

Accessories - See Price Guide for Complete List

CX-SMOKE-0	Smoked Bubble	CX-ARMX-0	Short Wall Bracket
CM-RCSD-0	Recessed Kit	CX-ARMX-1	Long Wall Bracket
CX-TRIA-0	Interior Corner Mounting Kit	CX-SWAN-0	Swan/Roof Mount
CM-CAPX-0	Pendant Kit	CX-POLE-0	Pole Bracket

Camera Ordering Information

Type	Series	Resolution in MP	Intelligence Package	Imager Package	Option 1
CM	-	3	1	1	-
Mini-Dome Camera	-	3 = HD-Classical Series	1	1 = 1.3MP	1 = Intelligent Multi-Zone VMD
				0 = D/N 3.3-12mm	1 = Indoor/Outdoor

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²I/O pins will be supported in future versions of Latitude NVMS and Solus VMS

*DHCP Client not supported by Latitude NVMS or Solus VMS