



SMALL FORM FACTOR. HIGHEST QUALITY. LOWEST BANDWIDTH. PREDICTABLE STORAGE.

The latest generation of the Ariel camera series sets a new standard in its class. This small form factor mini-dome combines the latest sensor technology with Quad HD resolution, Shutter Wide Dynamic Range, IR Illumination and H.264/H.265 compression, to deliver the highest quality video at the lowest bandwidth. The result is reduced Total Cost of Ownership (TCO), through network and storage infrastructure savings.

Combined with FLIR's United VMS, you can take advantage of our unique Adaptive Streaming technology, enhancing the overall viewing experience while ensuring minimum impact on your network.

The Ariel Quad HD Mini-dome easily handles wide variations in motion and lighting typically found in airports, city surveillance projects, critical infrastructure sites, commercial offices and campuses.

Key Features

- Multi-streaming at the highest frame rates
- Quad HD at the lowest bit rates
- Motorized Varifocal Lens with Push to Focus
- Shutter Wide Dynamic Range
- True Day/Night with IR Illumination
- Bi-Directional Audio
- Indoor/Outdoor IP67 / IK10
- Included analytics
 - Tamper Detection
 - Multi-zone VMD
- H.264, H.265, ONVIF Profile S/G
- Privacy Masking
- Storage on the Edge

General Specifications

Camera	
Image Sensor	1/2.9" BSI CMOS
Sensor Resolution	2560 x 1440
Scanning Mode	Progressive
Sensitivity	0.07 (color)/0.01 (BW), 0 Lux with IR illuminator ON, measured at 30 IRE
Lens Type	CM-3304-11-I: Varifocal 2.8-8.5mm, 36°-103° HFOV, F1.2, D/N, motorized auto-focus / auto-iris, P-Iris lens CM-3304-21-I: Varifocal 9-22mm, 15°-34° HFOV, F1.5, D/N, motorized auto-focus / auto-iris, P-Iris lens
Automatic Electronic Shutter (AES)	1/1.75 to 1/10,000 (auto)
Digital Slow Shutter (DSS)	1/7.5(6.25)~1/60(50) NTSC(PAL)
White Balance	Auto / ATW / Manual / One Push
Automatic Gain Control (AGC)	Auto
Back Light Compensation	On / Off
Shutter WDR	On / Off
Noise Reduction	3D
Tamper Detection	Yes
Privacy Zones	Yes
Video Motion Detection	Yes
Day / Night Mode	Yes
Mechanical IR Cut Filter	Yes
Signal to Noise Ratio (SNR)	More than 50dB when AGC off
Video	
Compression	H.265 main profile, H.264 main profile/high profile, Motion JPEG
Maximum Performance	H.264/H.265 30/25 FPS @ 1440P or H.264/H.265 15/12 FPS @ 1440p + 1080P + D1 (NTSC/PAL)
Resolution Range	Scalable from D1 to Quad HD 2560 x 1440
Bandwidth	Configurable between 64Kbps and 20Mbps
Rate Control	CBR, CVBR, VBR, MJPEG
SD Card Recording ¹	microSDXC up to 128GB (Class 10)
IR Illuminator	
Distance	up to 30 m (98 ft.)
Angle of Illumination	Full 60°
LED Type	high efficiency SMD
Peak Emission Wavelength (nm)	850

Network	
Network Protocols	TCP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP,SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, SSL, LDAP
Ethernet	10/100, IEEE 802.3, auto sensing 1 x RJ45
Remote Configuration	via web browser or supported video management software
Firmware Upgrade	Flash memory for upgrade of camera firmware over the network
Supported Web Browser	Internet Explorer 10+, Firefox 50+, Chrome 55+
Security	User account with password protection and IP filter
Audio	
Bi-Directional Audio	1 Audio Line Input, G.711 a/μ-law, AAC support + 1 Audio Line Output
Alarm	
Input	1 dry alarm contact
Output	1 Relay Contact
Physical	
Enclosure	Indoor/Outdoor: IK10 rated vandal IP67
Dimensions	138 x 104 mm (5.43 x 4.09 in.)
Unit Weight	0.82kg (1.8 lbs.)
Mechanical	
Bubble Rating	IK10 vandal resistant polycarbonate
Bubble F-Stop	F0.0 - clear bubble
Pan / Tilt	360° / ±88°
Electrical	
Input Voltage	802.3af PoE
Power Consumption	8W / 12W with heater and IR
Power Connector	PoE / RJ45
Environmental	
Operating Temperature	-40°C to 50°C (-40°F to 122°F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Humidity	90% (non-condensing)
Warranty & Regulatory	
Warranty	According to FLIR RMA Policy and Process Notice document
USA	UL, FCC Part 15 (subpart B, class A)
International	CE marked, EN61000-6-3 & EN50130-4, RoHS, RCM
MTBF (hrs)	383,688

¹ Excluding countries where disallowed

Camera Ordering Information

Type	Series	Camera Resolution	Lens Options	Environmental	IR Illuminator
CM	XX	XX	X	X	I
Mini-dome Camera	33 = Ariel Gen III	04 = Quad HD 2688 x 1520	1 = 2.8-8.5mm 2 = 9-22mm	1 = IP67 Vandal with Heater	I = 60° Illuminator

Mounting Options

Wall Mount	CM-CAPX-31	Pendant Cap for CM-31xx Series and CM-33xx Series
	CM-ARMX-31	Threaded Wall Arm for use with CM-31xx, CM-33xx and CM-62xx Series Minidome Pendant Caps
Surface Mount	CM-4S-31	4S Mounting Adapter for CM-31xx and CM-33 Series
	CM-BKBX-31	Back Box for CM-31xx and CM-33xx Series
Pole	CX-POLE-0	Pole Mount Adapter Bracket includes CX-ARMX-1
	CM-CAPX-31	Pendant Cap for CM-31xx Series and CM-33xx Series
	CM-F150-62	1.5" NPT Inner Thread (f) to 1/4 turn (m)
Recessed	CM-RCSD-G2	Recessed Kit for CM-31xx, CM-33xx, and CM-62XX Series Mini-dome Cameras
Pendant Mount	CM-CAPX-31	Pendant Cap for CM-31xx Series and CM-33xx Series

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