



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

The Ariel 4K UHD Mini-dome camera is a multi-purpose 4K UHD resolution evidentiary detail camera combined with a low light FHD camera for nighttime operations. Utilizing programmable schedules, the camera can switch from UHD mode (4K with up to 30 FPS) during daytime, to Enhanced Low Light Performance mode (1080P with up to 60 FPS) at night time, thus providing optimal image capture at all times based on optimal scene resolution along with sWDR.

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 4K 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
- 4K UHD 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
 - Multi-zone VMD
 - Tamper Detection
- H.264, H.265, ONVIF Profile S/G
- Privacy Masking
- Storage on the Edge



General Specifications

Camera			
Image Sensor	1/2.5 BSI CMOS		
Sensor Resolution	3840 x 2160		
Scanning Mode	Progressive		
Sensitivity	0.07 (color)/0.01 (BW), 0 Lux with IR illuminator ON measured at 30 IRE		
Lens Type	Varifocal 3.4-9mm, 42°-104° 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)	±50 dB		
Video			
Compression	Enhanced H.265 Main Profile + Enhanced H.264 Main/High/Baseline Profile + MJPEG		
Maximum Performance	H.264/H.265 30/25 FPS @ 4K (NTSC/PAL) or H.264/H.265 15/12 FPS @ 4K + 1080P + D1 (NTSC/PAL) or H.264/H.265 60/50 FPS @ 1080P + 30/25 FPS @ 720P + D1 (NTSC/PAL)		
Resolution Range	Scalable from D1 to 4K		
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 30m (98 ft.)		
Angle of Illumination	Full 60°		
LED Type	high efficiency SMD		
Peak Emission Wavelength (nm)	850		

Network Protocols TCP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DNS, RTP, RTSP, RTCP, PPPoE, NTP, UPPnP, SMTP, SNMP, IGMP, 802, 1X, QoS, IPv4, IPv6, SSL, LDAP Ethernet 10/100, IEEE 802.3, auto sensing 1 x RJ45 wia web browser or supported video management software Firmware Upgrade Flash memory for upgrade of camera firmware over the network Supported Web Browser 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 × 104 mm (5.43 × 4.09 in.) Unit Weight 0.82 kg (1.8 lbs.) Mechanical Bubble Rating IK10 vandal resistant polycarbonate Bubble F-Stop F0.0 - clear bubble Pan / Tilt 360° / ±88° Electrical Input Voltage Rower Consumption Rower Consumption Rower Consumption Poer / 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 Warranty According to FLIR RMA Policy and Process Notice document USA UL, FCC Part 15 (subpart B, class A) CE marked, EN61000-6-3 & EN50130-4, RoHS, RCM MTBF (hrs) 346,896	Network	
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 × 104 mm (5.43 × 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) CE marked, EN61000-6-3 & EN50130-4, RoHS, RCM		DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP,SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, SSL, LDAP
Firmware Upgrade Firmware Upgrade Firmware Upgrade Flash memory for upgrade of camera firmware over the network Supported Web Browser Security User account with password protection and IP filter Audio Bi-Directional Audio Bi-Directional Audio Alarm Input Input Input Industry Indust	Ethernet	
Camera firmware over the network Supported Web Browser Security Audio Bi-Directional Audio Alarm Input Input Industrial Inclosure Indoor/Outdoor: IK10 rated vandal IP67 Dimensions International Bubble Rating Bubble F-Stop Pan / Tilt Electrical Input Voltage Power Consumption Power Connector Environmental Operating Temperature Fundor Valuration According to FLIR RMA Policy and Process Notice document USA User account with password protection and IP filter International I Audio Line Input, G.711 a/μ-law, AAC support + 1 Audio Line Output 1 Audio Line Input, G.711 a/μ-law, AAC support + 1 Audio Line Output Alarm I Audio Line Input, G.711 a/μ-law, AAC support + 1 Audio Line Output Alarm I Audio Line Input, G.711 a/μ-law, AAC support + 1 Audio Line Output I Audio Line Input, G.711 a/μ-law, AAC support + 1 Audio Line Output Buble Contact Input Quarm contact Indoor/Outdoor: IK10 rated vandal IP67 Dimensions I Relay Contact Pose (1.40 s b.s.) International I Relay Contact I Rel	Remote Configuration	
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Audio Bi-Directional Audio Bi-Directional Audio Alarm Input 1 dry alarm contact Output 1 Relay Contact Physical Enclosure Indoor/Outdoor: IK10 rated vandal IP67 Dimensions 138 × 104 mm (5.43 × 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 Power Consumption Power Consumption Power Connector PoE / RJ45 Environmental Operating Temperature -40°C to 50°C (-40°F to 140°F) Humidity 90% (non-condensing) Warranty Warranty Regulatory Warranty USA UL, FCC Part 15 (subpart B, class A) International	Supported Web Browser	Internet Explorer 10+, Firefox 50+, Chrome 55+
Bi-Directional Audio Alarm Input Input Input Ingut Individual In	Security	User account with password protection and IP filter
# 1 Audio Line Output Alarm Input	Audio	
Input 1 dry alarm contact Output 1 Relay Contact Physical Enclosure Indoor/Outdoor: IK10 rated vandal IP67 Dimensions 138 × 104 mm (5.43 × 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	Bi-Directional Audio	
Output 1 Relay Contact Physical Enclosure Indoor/Outdoor: IK10 rated vandal IP67 Dimensions 138 × 104 mm (5.43 × 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 Process Notice document USA UL, FCC Part 15 (subpart B, class A) International	Alarm	
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Pan / Tilt Blectrical Input Voltage Power Consumption Power Connector Poe / RJ45 Environmental Operating Temperature Pumidity Power Condensing Warranty & Regulatory Warranty USA UL, FCC Part 15 (subpart B, class A) International B02.3af PoE R02.3af PoE R0	Bubble Rating	IK10 vandal resistant polycarbonate
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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	Pan / Tilt	360°/±88°
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	Electrical	
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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	Environmental	
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	Operating Temperature	· · · · · · · · · · · · · · · · · · ·
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	Storage Temperature	-40°C to 60°C (-40°F to 140°F)
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		90% (non-condensing)
Warranty Process Notice document USA UL, FCC Part 15 (subpart B, class A) International CE marked, EN61000-6-3 & EN50130-4, RoHS, RCM	Warranty & Regulatory	
International CE marked, EN61000-6-3 & EN50130-4, RoHS, RCM	Warranty	
International RCM	USA	UL, FCC Part 15 (subpart B, class A)
MTBF (hrs) 346,896	International	
	MTBF (hrs)	346,896

¹ Excluding countries where disallowed

Camera Ordering Information

Туре	Series	Camera Resolution	Lens Options	Environmental	IR Illuminator
CM	XX	XX	X	X	I
Mini-dome Camera	33 = Ariel Gen III	08 = 4K UHD 3840 x 2160	1 = 3.4-9mm	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		

CORPORATE HEADQUARTERS

FLIR Systems, Inc. 27700 SW Parkway Ave. Wilsonville, OR 97070 PH: +1 877.773.3547

FLIR SECURITY SYSTEMS, INC.

65 Challenger Rd, Suite 201 Ridgefield Park, NJ 07660 PH: +1 201.368.9700

FLIR UK

7 Lancaster Court High Wycombe, HP 123td PH + 44 (0) 1494.430248 F + 44 (0) 1494.446928

FLIR MEXICO

Felipe Villanueve 10 Guadalupe Inn, Alvaro Obregon, 01020 PH: +52 55.55805618 Email: info.cala@flir.com



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