

FLIR Ariel™

4K UHD Bullet Camera



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

The Ariel 4K UHD Bullet 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 bullet 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, F1.2, D/N, motorized auto-focus / auto-iris, P-Iris
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 @ 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	
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 Connection	
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: IK7 rated vandal IP67
Dimensions	215 x 86 x 80 mm (8.48 x 3.39 x 3.15 in.)
Unit Weight	0.63kg (1.39 lbs.)
Mechanical	
View Port	IK7 vandal resistant polycarbonate
View Port F-Stop	F0.0 - clear
Pan / Tilt	360° / ±80°
Electrical	
Input Voltage	802.3af PoE
Power Consumption	8W / 12W with heater and IR
Power Connector	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/cUL 60950-1, FCC47 CFR Part 15 subpart B / ICES-003
International	CE marked, EN61000-6-3 & EN50130-4, RoHS, RCM
MTBF (hrs)	354,139 at 50°C

Camera Ordering Information

Type	Series	Camera Resolution	Lens Options	Environmental	IR Illuminator
CB	XX	XX	X	X	I
Bullet 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	CB-4S-31	4S Mounting Adapter for CB-31xx and CB-33xx Bullet Cameras
	CB-WLBX-31	Wall Junction Box for CB-31xx and CB-33xx Series Bullet Cameras
Pole Mount	CB-PLBX-31	Includes pole mounting bracket and CB-WLBX-31

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