FLIR

Ariel™ Quad HD Bullet

The Ariel™ Quad HD Bullet is designed for the diverse motion and lighting conditions found in critical infrastructure and commercial locations. The camera includes the latest sensor technology, Quad HD resolution, Shutter Wide Dynamic Range, IR Illumination and H.264/H.265 compression. The Ariel Quad HD Bullet reduces the total cost of ownership through network and storage savings. When controlled using FLIR's United VMS, the camera also utilizes unique adaptive streaming technology, enhancing the overall viewing experience.
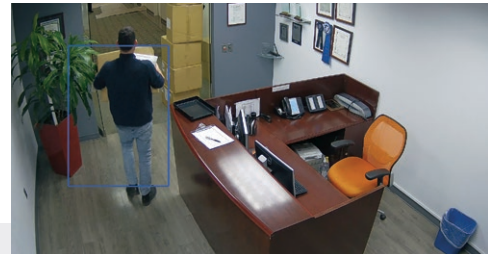
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LATEST SENSOR TECHNOLOGY

Features include Quad HD resolution, Shutter Wide Dynamic Range, and H.264/H.265 compression.

TRUE DAY/NIGHT COVERAGE

Camera sensitivity equals 0.07 Lux (color), 0.01 Lux (BW), and 0 Lux with IR illumination.

BUILT-IN ANALYTICS

The camera offers a package of basic video analytics capabilities including Border Line, Counting, Area Protection, Loitering, Object Dropped and Object Removed.

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	CB-3304-11-I: Varifocal 2.8-8.5mm, 36°- 103° HFOV, F1.2, D/N, motorized auto-focus / auto-iris, P-Iris CB-3304-21-I: Varifocal 9-22mm, 15°- 34° HFOV, F1.5, 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	120 dB
Noise Reduction	3D
Tamper Detection	Yes
Privacy Zones	Yes
Video Motion Detection	Yes
General Purpose Video Analytics*	Border Line, Counting, Area Protection, Loitering, Object Dropped, Object Removed
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 1440P
Bandwidth	Configurable between 64Kbps and 20Mbps
Rate Control	CBR, CVBR, 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	Password protection, IP address filtering, HTTPS encryption, IEEE 802.1X network access control, Digest authentication

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	0.59kg (1.3 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)	373,424 at 50°C

* Requires license activation: part number TBD. Single active rule at any time. Requires license purchased separately

Camera Ordering Information

Type	Series	Camera Resolution	Lens Options	Environmental	IR Illuminator
CB	XX	XX	X	X	I
Bullet Camera	33 = Ariel Gen III	04 = Quad HD 2560 x 1440	1 = 2.8-8.5mm 2 = 9-22mm	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

Specifications are subject to change without notice.
For the most up-to-date specs, go to www.flir.com

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