FLIR

Ariel™ Full HD
Mini-Dome

The Ariel™ CM-3102 mini-dome camera with Full HD 1080p video guarantees frame rates in complex, high motion, and low light scenes found in airports, critical infrastructure sites, commercial offices and campuses. Through its motion processing architecture, the Ariel mini-dome also delivers predictable storage, reducing overall utility costs and Total Cost of Ownership (TCO).

www.flir.com /security

MULTI-STREAM H.264 VIDEO

Crisp, clean video for supreme identification.

GUARANTEED FRAME RATES

Maintains evidentiary integrity of video in challenging surveillance conditions, regardless of motion/scene complexity.

PREDICTABLE STORAGE

With special motion processing software, the camera delivers predictable storage for reduced Total Cost of Ownership.

SPECIFICATIONS

Camera

Image Sensor	1/2.8" BSI CMOS
Sensor Resolution	2048 x 1536
Scanning Mode	Progressive
Sensitivity	0.03 (color)/0.01 (BW), 0 Lux with IR illuminator ON, measured at 30 IRE
Lens Type	CM-3102-01-I: Fixed 2.8mm, 102° HFOV, F1.8, D/N CM-3102-11-I: Varifocal 3-10.5mm, 31°- 88° HFOV, F1.4, D/N, Motorized with auto-focus and auto-iris
Automatic Electronic Shutter (AES)	1/7.5 to 1/10,000 (auto)
Digital Slow Shutter (DSS)	1/7.5 to 1/25 or 1/30 with up to 4x sensitivity boost in color or night mode
White Balance	Auto / ATW / Manual / One Push
Automatic Gain Control (AGC)	Auto
Back Light Compensation	On / Off
Wide Dynamic Range (WDR)	On / Off (78dB)
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	Fully compliant multi-stream H.264 main/high profile + MJPEG
Maximum Performance	H.264 30/25 @ 1080p + 720p + D1 (NTSC/PAL)
Resolution Range	Scalable from D1 to FHD 1080p
Bandwidth	Configurable between 64Kbps and 20Mbps
Rate Control	SVBR
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, auto sensing, half / full duplex (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+
Security	User account with password protection and IP filter

Audio

Input	CM-3102-11-I: G.711, AAC 48KHz

Alarm

Input	CB-3102-11-I: 1 dry alarm contact

Physical

Enclosure	Indoor/Outdoor: IK10 rated vandal IP67
Dimensions	CM-3102-01-I: 138 × 77 mm (5.43 x 3.03 in.) CM-3102-11-I: 138 × 104 mm (5.43 x 4.09 in.)
Unit Weight	CM-3102-01-I: 0.61kg (1.34 lbs.) CM-3102-11-I: 0.92kg (2.03 lbs.)

Mechanical

Bubble F-Stop	F0.0 – clear bubble
Pan / Tilt / Rotate	CM-3102-01-I: 360° / ±63° CM-3102-11-I: 360° / ±88°

Electrical

Input Voltage	802.3af PoE
Power Consumption	CM-3102-01-I: 5W / 10W with heater and IR CM-3102-11-I: 8W / 12W with heater and IR
Power Connector	PoE

Environmental

Operating Temperature[2]	-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, EN55022-1998 class A, EN55024, RoHS

[1] Excluding countries where disallowed.   [2] Startup temperature -10°C/12°F.

Camera Ordering Information

Type	Series	Camera Resolution	Lens Options	Environmental	IR Illuminator
CM	31	02	x	1	I
Mini-dome Camera	31 = Ariel Gen II	02 = 1080p FHD	0 = 2.8mm 1 = 3-10.5mm	1 = IP67 Vandal with Heater	I = 60 ° Illuminator

Accessories

A complete list of mounts, brackets, pole mounts and recess kits for cameras can be found in the FLIR Price List and Camera Accessory Guide.

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

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