

**1080P WDR MINI-DOME CAMERA**

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).

**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 x 77 mm (5.43 x 3.03 in.) CM-3102-11-I: 138 x 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

¹Excluding 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

Specifications are subject to change without notice.

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.

NASDAQ: FLIR

Equipment described herein is subject to US export regulations and may require a license prior to export. Diversion contrary to US law is prohibited. Imagery for illustration purposes only. Specifications are subject to change without notice. ©2019 FLIR Systems, Inc. All rights reserved. Rev. 05/20/19

19-0582-SEC-ENT Ariel CM-3102 Datasheet



The World's Sixth Sense®

www.itm.com

information@itm.com

1.800.561.8187