

FLIR QUASAR™

4x2K Convertible 180°/360° Panoramic Mini-dome Camera



Ceiling mode



Wall mode

The FLIR Quasar Quad Sensor Camera is designed to address any application that requires full coverage wide area surveillance, in either 180 or 360 degree field of view. Thanks to its patented one step conversion process the camera is offered as a single form factor that is field configurable to either 180 or 360 mode. The Quad Sensor capability completes FLIR's offering of wide area full coverage, typically required for city surveillance deployments, critical infrastructure, airports and any other high-profile wide area security applications.

Key Features

- Field convertible 180/360 field of view
- Blended stitching with LDC
- True day-night with built-in IR
- Indoor/outdoor vandal resistant
- 4 x 2K @ 30 FPS stream
- Shutter WDR
- H.264 / H.265 compression
- ONVIF Profile S/G



180 mode



360 mode

General Specifications

Camera	
Image Sensor	1/2.8" BSI CMOS (x4 Each)
Sensor Resolution	1920x1080 (x4 Each)
Scanning Mode	Progressive
Sensitivity	0.02 (color) / 0 (BW)
Lens Type	Fixed 3.6mm, 92° HFOV, F2.0
Automatic Electronic Shutter	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
Iris Control	Auto-Shutter
Shutter WDR	120 db
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 (MPEG-4 Part 10/AVC), Motion JPEG
Maximum Performance	<p>180 mode: H.264/H.265 30/25 FPS @ 3840x1440 + D1 (NTSC/PAL) H.264/H.265 20/20 FPS @ 3840x1440 + 1920x720 + D1 (NTSC/PAL)</p> <p>360 mode: H.264 30/25 FPS @ 4K (NTSC/PAL) or H.265 27/25 FPS @ 4K (NTSC/PAL) or H.264/H.265 15/15 FPS @ 4K + 1080P + D1 (NTSC/PAL)</p>
Analog Output	1 - composite video output BNC
Resolution Range	180 mode: Scalable from D1 to 3840x1440 360 mode: Scalable from D1 to 3840x2160
Bandwidth	Configurable between 64Kbps and 20Mbps
Rate Control	CBR, CVBR
SD Card Recording ¹	microSDXC up to 128GB (Class 10)
Audio	
Bi-Directional Audio	1 Audio Line Level Input, G.711 a/μ-law, AAC support, 1 Audio Line Level Out
Audio Connections	Terminal block

IR Illuminator	
Distance	up to 25 m (82 ft.)
Angle of Illumination	Full 60°
Number of IR LEDs	High efficiency SMD
Peak Emission Wavelength (nm)	850
Network	
Network Protocols	CP, 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+, Firefox 50+, Chrome 55+
Security	Password protection, IP address filtering, HTTPS encryption, IEEE 802.1X network access control, Digest authentication
Alarm	
Input / Output	1 Dry Alarm Contact In / 1 Relay Contact Out
Physical	
Enclosure	Indoor/Outdoor: IK10 rated vandal IP67
Dimensions	190mm x 190mm x 130mm (7.48 x 7.48 x 5.11 in.)
Unit Weight	1.56 Kg (3.44 lbs.)
Mechanical	
Bubble Rating	IK10 vandal resistant polycarbonate
Bubble F-Stop	F 1.0 - Smoked Bubble (Standard)
Pan / Tilt / Rotate	360 mode: Tilt 63° degrees (fixed) 180 mode: Tilt 45° degrees synchronized down from horizon
Electrical	
Input Voltage	802.3at PoE+, 24 VAC
Power Consumption	24.9W with heater and IR On
Power Connector	PoE / 2-pin terminal block
Environmental	
Operating Temperature	-40° to 50° C (-40° to 122° F)
Storage Temperature	-40° to 80° 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
MTBF (hrs)	494,940

¹ Excluding countries where disallowed

Camera Ordering Information

Type	Series	Camera Resolution	Lens Options	Environmental	IR Illuminator
CM	63	08	X	1	I
Mini-Dome Camera	63 = Quasar Gen III	08 = 4K UHD	P = Panoramic 180°/360° Convertible	1 = IP67 Vandal with Heater	I = 60° Illuminator

Mounting Options

Wall Mount	CM-CAPX-63P	Pendant Cap for CM-63xx-P1-I with dual 1.5" NPT (m) threaded / 3.4" (f) EMT threaded mount
	CM-ARMX-31	Threaded Wall Arm for use with CM-31xx, CM-33xx and CM-62xx Series Minidome Pendant Caps
Pole	CX-POLE-0	Pole Mount Adapter Bracket includes CX-ARMX-1
	CM-CAPX-63P	Pendant Cap for CM-63xx-P1-I with dual 1.5" NPT (m) threaded / 3.4" (f) EMT threaded mount
Pendant Mount	CM-F150-62	1.5" NPT Inner Thread (f) to 1/4 turn (m)
	CM-CAPX-63P	Pendant Cap for CM-63xx-P1-I with dual 1.5" NPT (m) threaded / 3.4" (f) EMT threaded mount

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