



# FLIR Quasar™ Hemispheric Mini-Dome AI

## 12 MP Camera with Edge AI Video Analytics

[www.flir.com/products/Quasar-Hemispheric-Mini-Dome-AI](http://www.flir.com/products/Quasar-Hemispheric-Mini-Dome-AI)



### Key Features

- Edge AI Video Analytics onboard for person/vehicle, intrusion/region/tripwire, object counting, loitering, stopped vehicle, abandoned object, object removal, wrong direction and camera detection
- Superior Image Quality and storage for lower total cost of ownership
- Powerful encoding for extra streams and FPS options Easy setup and control via United VMS and 3rd party software.
- Cyber compatible via ONVIF and cyber-certified with key 3rd party VMS.
- Fully NDAA-compliant for government and critical infrastructure facilities

### Main Applications

- Commercial buildings and critical infrastructure sites
- Intrusion detection and round the clock site surveillance

### SPECIFICATIONS

Product	CM-6412-H2-IA
Automatic electronic shutter (AES)	Auto shutter + max gain off
Digital slow shutter (DSS)	1/60, 1/30, 1/15, 1/8, 1/4, 1/2, 1/1
Automatic gain control (AGC)	Shutter Priority
Backlight compensation	On/Off
White Balance	Auto/One Push/ATW/Manual
Sensitivity	Color 0.1 lux B/W 0.01 lux
Noise reduction	2DNR, 3DNR, color NR
Signal-to-noise ratio (SNR)	>50 dB
AI video analytics	Yes
Day/night modes	Automatically removable IR-cut filter
Image Settings	Color, Brightness, Sharpness, Contrast, White
Lens Type	Fixed focal length: 1.65 mm Field of view: 360°
Video	
Compression	Up to 4 individually configurable streams in H.265/H.264/MJPEG
Corridor Mode	90°, 180°, 270° rotation
Maximum Performance	Up to 4 individually configurable streams in H.265/H.264/MJPEG
Bandwidth	Configurable between 64 Kbps and 20480 Kbps
Rate control	CBR, CVBR, VBR
SD card recording	MicroSDXC up to 2 TB, SD Bus Mode UHS I (not included)
Streaming Resolution	Front-end dewarping: Maximum resolution 9 MP
Network	
Network protocols	IPv4, IPv6, HTTP, HTTPS, .UPnP, DNS, NTP, RTSP, RTP, TCP, UDP, ICMP, IGMP, DHCP, ARP, IEEE 802.1X

Network APIs	ONVIF Profile S/G/Q/T/M conformant
Ethernet	10/100,1000 IEEE 802.3, auto sensing 1 × RJ45
Firmware upgrade	Flash memory for upgrade of camera firmware over the network
Supported web browser	Chrome, Edge, Internet Explorer, Firefox, Opera
Security	Password protection, IP address filtering, HTTPS encryption, IEEE 802.1X network access control, Digest authentication, Service Firewall
Remote configuration	Via web browser or supported video management software
Physical	
Weight	565 g 1.25 lbs
Dimensions (Diameter)	130 × 57.8 mm (5.11 × 2.27 in)
Electrical	
Input Voltage	12 VDC, 24 VAC, PoE+ IEEE 802.3at
Power consumption	PoE IEEE802.3af: 9.12 W DC 12 V: 9.9 W
IP Rating (Dust & Water Ingress)	IP66
Environmental	
Operating temperature	-10°C to 55°C without heater -30°C to 55°C with heater
Storage temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	10%–90%, No Condensation
Shock and vibration	International standard IEC60068
SD Card	Support microSD/microSDHC/microSDXC card size up to 1TB

Specifications subject to change. For the most up-to-date specifications, please visit [flir.com](http://flir.com).



# FLIR Quasar™ Hemispheric Mini-Dome AI

## 12 MP Camera with Edge AI Video Analytics

[www.flir.com/products/Quasar-Hemispheric-Mini-Dome-AI](http://www.flir.com/products/Quasar-Hemispheric-Mini-Dome-AI)

### SPECIFICATIONS, CONT.

Video Analytics	
Classified Object Type	Person/Vehicle
AI Analytics events	Intrusion - Region / Tripwire, Object Counting, Loitering, Stopped Vehicle
VMD Analytics events	Object, Object Removal, Wrong Direction—corridor use case, Camera Sabotage
Intelligence	People counting on Latitude 9.2.1 and above
Physical	
Analytics Management	Web-based configuration and management, masking of analytic detection areas, adjustable sensitivity, automatic responses, remote I/O control
SOE	Video & Snapshot to SD Card
IR Illumination	5 m, 940 nm
Alarm	Alarm in x1, Alarm out x1, Terminal Block Power 2 Pin Terminal Block
Audio Codec	G.711/G.726/AAC/LPCM
MTBF (hrs)	526,279 (30°C); 149,537 (60°C)

### Compliance & Certifications

Compliance	FCC Part 15 (Subpart B, class A, ICES-003), CE Marked, RoHS, RCM, LVD, IEC 60950-22, IEC 62471, IK10, IP66, WEEE, Bump, Vibration, ISTA-3A, CB-62368
------------	--

### Accessories

CX-ARMX-G4F	Wall Mount Bracket kit
CM-CAPX-G4F	Pendant Cap kit
CM-RCSD-G4-F	Recessed Mount kit (Ceiling Mount)
CM-4S-G4F 4S	Box Adaptor

Specifications subject to change. For the most up-to-date specifications, please visit [flir.com](http://flir.com).



For more information  
about FLIR Quasar™  
Hemispheric Mini Dome  
AI please scan or visit:



For technical or sales support, please visit:  
[www.flir.com/about/general-inquiries](http://www.flir.com/about/general-inquiries)

This product is subject to United States export regulations and may require US authorization prior to export, reexport, or transfer to non-US persons or parties. Diversion contrary to US law is prohibited.

For assistance with confirming the Jurisdiction & Classification of Teledyne FLIR, LLC products, please contact [exportquestions@flir.com](mailto:exportquestions@flir.com). ©2024 Teledyne FLIR, LLC. All rights reserved.

Revised 03/17/25  
Quasar Hemispheric Mini Dome Datasheet LTR 25-0040-INS