

# FLIR QUASAR™ PREMIUM MINI-DOME

5 MP HD and 4K UHD Cameras

The FLIR Quasar premium mini-dome camera was designed to provide situational awareness in the most demanding environments, where evidential and forensic video is required. It is offered in a 5 MP HD and 4K UHD variant, delivering superior image quality and IR-illumination for exceptional performance using low bandwidth. Ideal for critical infrastructure sites, remote facilities or any large areas requiring close monitoring, the Quasar premium cameras are fully NDAA-compliant, utilize high-end cybersecurity safeguards. Ease of installation, FLIR accessory/mounting ecosystem and the ability to operate more cameras on the same server all contribute to a lower total cost of ownership. Seamless integration with a wide range of video management systems, including United VMS facilitates an open solution and true end-to-end solution.



## PURPOSE-BUILT FOR HARSH ENVIRONMENTS

Updated design, greater operational efficiencies, and fast setup

- IP66, IK10, salt tolerance, and optional sunshield to reduce heat and reflections
- Extreme operating temperature range from -55°C to 60°C (-67°F to 140°F) & cold start -40°C (-40°F)
- Accessories/mount options are compatible with other FLIR models for a great eco-system
- Simple installation takes only a few minutes for more efficient, competitive integration

## SUPERIOR IMAGE QUALITY AND STORAGE FOR LOWER TOTAL COST OF OWNERSHIP

Best resolution and adaptive streaming provide better video for less bandwidth

- Double sensitivity, 3-shutter Wide Dynamic Range at 130 dB
- Powerful encoding for extra streams and frames per second (fps) options; supports wide 1G network for better streaming performance without bandwidth issues
- Improved on-board IR-illumination from 30 m to 40 m for excellent low-light visibility

## DESIGNED FOR COMPLIANCE AND CYBERSECURITY

Engineered to reduce exposure to remote security attacks and approved for government use

- TLS/HTTPS, digest authentication, and network protection: IP address filtering, EEE 802.1X network access control and strict password/failed log-in policy
- 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

For more information visit:  
[www.flir.com/security](http://www.flir.com/security)

[www.teledyneflir.com](http://www.teledyneflir.com)

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## FLIR QUASAR PREMIUM MINI-DOME

Camera	Quasar 4K UHD	Quasar 5 MP HD
Image Sensor	1/1.8-in CMOS	1/2.7-in CMOS
Sensor Resolution	3864 x 2180	2688 x 1944
Scanning Mode	Progressive	
Lens Type	Varifocal 4.46 mm-11 mm, 40.43°-110.76° HFOV, 22.65°-57.14° VFOV, F1.47-F2.5, D/N, Zoom, Auto-Focus / Auto-Iris, P-Iris	Varifocal 2.7 mm-12 mm, 31.53°-102.14° HFOV, 22.71°-70.28° VFOV, F1.6, D/N, Motorized Auto-Iris, P-Iris
Digital Slow Shutter (DSS)	1/1(1) - 1/60(50) NTSC(PAL)	
White Balance	Auto / ATW / Manual / One Push	
Automatic Gain Control (AGC)	Auto	
Back Light Compensation	On / Off	
Shutter WDR	130 dB	
Noise Reduction	3D/2D/Color	
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	
Automatic Electronic Shutter (AES)	1/1 to 1/32,000	
Sensitivity	0.08 (color) / 0.008 (BW), 0 Lux with IR illuminator ON, measured at 30 IRE	0.04 (color) / 0.002 (BW), 0 Lux with IR illuminator ON, measured at 30 IRE
Video	Enhanced H.265 Main Profile + Enhanced H.264 Main/High/Baseline Profile + MJPEG*	
Compression	Enhanced H.265 Main Profile + Enhanced H.264 Main/High/Baseline Profile + MJPEG*	
Maximum Performance	H.264/H.265 30/25 fps @ 4K (NTSC/PAL) + 30/25 fps @ D1 or H.264/H.265 15/12 fps @ 4K + 1080p + D1 (NTSC/PAL) or H.264/H.265 60/50 fps @ 1080p + 30/25 fps @ 720p + D1 (NTSC/PAL)	H.264/H.265 30/25 fps @ 5M (NTSC/PAL) + 30/25 fps @ D1 or H.264/H.265 15/12 fps @ 5M + 1080p + D1 (NTSC/PAL) or H.264/H.265 60/50 fps @ 1080p + 30/25 fps @ 720p + D1 (NTSC/PAL)
Resolution Range	Scalable from QCIF to 4K	Scalable from QCIF to 5 MP
Bandwidth	Configurable between 64 Kbps and 20 Mbps	
Rate Control	CBR, CVBR, LBR, MJPEG	
SD Card Recording <sup>1</sup>	microSD/microSDHC/microSDXC 8 GB to 512 GB (Class 10)	
IR Illuminator	Up to 40 m (131 ft) Sunshield 28 m (91.8 ft)	
Distance	Up to 40 m (131 ft) Sunshield 28 m (91.8 ft)	
Peak Emission Wavelength (nm)	850	
Angle	110° x 57.1°	102.1° x 70.2°
Network	IPV4/6, HTTP, HTTPS, UPnP, DNS, NTP, RTP, TCP, UDP, ICMP, IGMP, DHCP, ARP, IEEE 802.1X, SNMP, CoS, TLS, SMTP, FTP, DDNS, PPPoE, RTCP	
Network Protocols	IPV4/6, HTTP, HTTPS, UPnP, DNS, NTP, RTP, TCP, UDP, ICMP, IGMP, DHCP, ARP, IEEE 802.1X, SNMP, CoS, TLS, SMTP, FTP, DDNS, PPPoE, RTCP	
Ethernet	10/100/1000, 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, Firefox, Chrome, Edge, Safari	
Security	Password protection, IP address filtering, TLS/HTTPS, IEEE 802.1X network access control, Digest authentication, Password policy, Protect from multiple failure login	
ONVIF Support	Profiles S, G & T	

Camera	Quasar 4K	Quasar 5MP
Audio	1 Audio Line Input, G.711 a/μ-law, AAC support + 1 Audio Line Output	
Bi-Directional Audio	1 Audio Line Input, G.711 a/μ-law, AAC support + 1 Audio Line Output	
Alarm	1 dry alarm contact 1 5 V 10 kΩ pull up	
Input	1 Relay Contact max. DC 5 V 130 mA	
Output	1 Relay Contact max. DC 5 V 130 mA	
Physical	Indoor/Outdoor: IK10 rated vandal IP66	
Enclosure	Indoor/Outdoor: IK10 rated vandal IP66	
Dimensions	161 mm x 128.6 mm (6.3 in x 5 in)	
Unit Weight	1.3 kg (2.86 lb)	
Mechanical	356° / ±90° / ±98°	
Pan / Tilt / Spin	356° / ±90° / ±98°	
Electrical	PoE IEEE802.3af, class 0 AC 24 V, max 13.68 W	
Input Voltage	PoE IEEE802.3af, class 0 AC 24 V, max 13.68 W	
Power Consumption	11.5 W with heater and IR	12.5 W with heater and IR
Power Connector	RJ45 & 24 V AC	
Environmental	-30°C - 60°C (-22°F - 140°F) without heater -55°C - 60°C (-67°F - 140°F) with heater Cold start -40°C - 60°C (-40°F - 140°F) with heater	
Operating Temperature	-30°C - 60°C (-22°F - 140°F) without heater -55°C - 60°C (-67°F - 140°F) with heater Cold start -40°C - 60°C (-40°F - 140°F) with heater	
Storage Temperature	-20°C - 70°C (-4°F - 158°F)	
Humidity	90% (non-condensing)	
Warranty & Regulatory	According to FLIR RMA Policy and Process Notice document	
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, EN 62368-1 & EN50130-4, RoHS, RCM, BIS, WEEE	
#1	1 Excluding countries where disallowed	
MTBF (hrs)	376,848	426,322
Shock & Vibration	IEC 60068-2-27: 2008	IEC 60068-2-64: 2008
Bump & Vibration	IEC 60068-2-27: 2008	IEC 60068-2-64: 2008

Specifications are subject to change without notice. For the most up-to-date specs, go to [www.teledyneflir.com](http://www.teledyneflir.com)

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.

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