FLIR QUASAR™ PREMIUM BULLET
4 MP Quad HD & 4K Ultra HD Cameras

FLIR designed the Quasar Premium Bullet for vigilant situational awareness in the most demanding environments and for capturing critical evidential and forensic video.

Available in 4 MP QHD or 4K UHD, Quasar Premium Bullet cameras deliver superior image quality and IR-illumination for exceptional performance. They're ideal for critical infrastructure sites, remote facilities, or any large areas requiring close monitoring.

Quasar premium cameras are fully NDAA-compliant, come equipped with high-end cybersecurity safeguards, and use low bandwidth. Compatibility with the FLIR eco-system of accessories as well as the ability to operate more cameras on the same network both contribute to a lower total cost of ownership. Seamless integration with a wide range of video management systems, including United VMS provides an open, true end-to-end solution.

BUILT FOR HARSH ENVIRONMENTS
Rugged design, greater operational efficiencies, and fast setup
- IK10 vandal protected for prison, transport, city surveillance, and public access facilities
- IP67 environmental protection with extreme operating temperature range from -40°C to 60°C (-40°F to 140°F) & cold start -40°C (-40°F)
- Works in no light conditions with on-board IR-Illumination up to 60 m
- Suitable for port and other marine environments with salt tolerance

VERSATILE, INTUITIVE, SECURE
Install and set up camera with United VMS within minutes and minimize implementation costs
- Reduce system complexity with easy set-up and control via United VMS and other third-party VMS (ONVIF conformant and cyber-certified)
- Record on the edge with on-board 512 GB SD-card, while adding redundancy to the system
- Password protection and policy enforcement, IP address filtering, HTTPS encryption, IEEE 802.1X network access control, digest authentication, CA & self-signed certificates

SUPERIOR IMAGE QUALITY
Optimal resolution and adaptive streaming during surveillance and forensic reporting
- Low light sensitivity requiring only 0.07 lux to produce a color picture
- 3 shutter Wide Dynamic Range (130 dB) provides optimal light balance
- Powerful encoding for extra number of streams and frames per second (fps) customization
- Supports wide 1G network for better streaming and no bandwidth issues

FLIR QUASAR PREMIUM BULLET

Camera	Quasar 4K	Quasar QHD
Image Sensor	1/1.8-in CMOS	1/2.8-in CMOS
Sensor Resolution	3840 × 2160	2560 × 1440
Scanning Mode	Progressive	
Lens Type	CB-6408-11-I: Varifocal 3.6 mm-10 mm, 97°-46° HFOV, F1.5, D/N, motorized auto-focus / auto-iris, P-Iris lens CB-6408-21-I: Varifocal 9 mm-22 mm, 62°-26° HFOV, F1.6, D/N, motorized auto-focus / auto-iris, P-Iris lens	CB-6404-11-I: Varifocal 2.7 mm-13.5 mm, 102°-32° HFOV, F1.4, D/N, motorized auto-focus / auto-iris, P-Iris lens CB-6404-21-I: Varifocal 9 mm-22 mm, 39°-16.5° HFOV, F1.6, D/N, motorized auto-focus / auto-iris, P-Iris lens
Automatic Electronic Shutter (AES)	1/2-1/32000 (auto)	
Digital Slow Shutter (DSS)	1/2-1/30 (NTSC) 1/2-1/25 (PAL)	
White Balance	Auto / ATW / Manual / One Push	
Automatic Gain Control (AGC)	Auto	
Back Light Compensation	On / Off	
Shutter WDR	130 dB on 15 fps 120 dB on 30 fps	
Noise Reduction	3D & 2D	
Tamper Detection	Yes	
Privacy Zones	Yes	
Video Motion Detection	Yes	
Day / Night Mode	Yes, support for Enhanced Low Light performance	
Mechanical IR Cut Filter	Yes	
Signal to Noise Ratio (SNR)	±50 dB	
Sensitivity	0.07 (color)/0.01 (BW), 0 Lux with IR illuminator ON, measured at 30 IRE	
Video		
Compression	Enhanced H.265 Main Profile + Enhanced H.264 Main/High/Baseline Profile + MJPEG	
Maximum Performance	H.264/H.265 30/25 fps @ 4K + H.264/H.265 30/25 fps @ 1080p (NTSC/PAL)	H.264/H.265 30/25 fps @ 1440p + H.264/H.265 30 fps @ 1080p MJPEG 15 fps @ 1080p + H.264/H.265/MJPEG 30 fps @ 720p (NTSC/PAL)
Resolution Range	Scalable from D1 to 4K	Scalable from D1 to Quad HD 2560 × 1440
Rate Control	CBR, CVBR, MJPEG	
SD Card Recording[1]	MicroSDXC up to 512 GB, SD Bus Mode UHS I	
IR Illuminator		
Distance	CM-640X-11-I: 40 m (131 ft) CM-640X-21-I: 60 m (197 ft)	
Angle of Illumination	CM-640X-11-I: 90° CM-640X-21-I: 60°	
LED Type	High efficiency SMD	
Peak Emission Wavelength (nm)	850	
Network		
Network Protocols	IPv4, IPv6, HTTP, HTTPS, .UPnP, DNS, DDNS,NTP, RTSP, RTP, TCP, UDP, ICMP, IGMP, DHCP, ARP, IEEE 802.1X, FTP, RTCP, PPPoE, SMTP, SNMP, QoS, TLS, LDAP, ONVIF Profile G / T / S	
Ethernet	10/100,1000 IEEE 802.3, auto sensing 1 x RJ45	
Remote Confguration	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, Opra	
Security	Password protection, Password policy enforcement, IP address filtering, HTTPS encryption, IEEE 802.1X network access control, Digest authentication, CA & self-signed certificates Protect from failed log-in Service Firewall	

[1] SD card not included

Camera	Quasar 4K	Quasar QHD
Audio		
Bi-Directional Audio	1 Audio Line Input, G.711 a/μ-law, AAC support + 1 Audio Line Output	
Alarm		
Input	1 dry alarm contact	
Output	1 relay contact	
Physical		
Enclosure	Indoor/Outdoor: IK10 rated vandal IP67	
Dimensions	258.41 mm × 92.76 mm × 92.47 mm (10.17 in × 3.65 in × 3.64 in)	
Unit Weight	1.086 kg (2.39 lb)	
Mechanical		
Pan / Tilt / Spin	360° / ±90° / 360°	
Electrical		
Input Voltage	AC 24 V, DC 12 V, POE+ IEEE 802.3at	
Power Consumption	With Heater and IR DC 12 V / 18 W AC 24 V / 17 W POE / 17 W	
Power Connector	PoE : RJ45 DC 12 V / AC 24 V : Terminal block	
Environmental		
Operating Temperature	-40°C to 60°C (-40°F to 140°F) cold start	
Storage Temperature	-40°C to 60°C (-40°F to 140°F)	
Humidity	0% - 95%	
Shock & Vibe	ISTA 2A	
Defog	Yes. Heater ring	
Salt Tollerant	NEMA 4X	
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, EN 62368-1 & EN50130-4, RoHS, RCM, WEEE, BIS	
MTBF	317988 hours	310104 hours

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

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