



FLIR Quasar™ Premium Bullet AI

5 MP and 4K Ultra HD Cameras with FLIR Edge AI Video Analytics

www.flir.com/products/Quasar-Premium-Bullet-AI



Key Features

- Ensures high-quality surveillance in any conditions thanks to low-light sensitivity, wide dynamic range, and frames-per-second customization
- Integrates FLIR Deep Neural Network (DNN) based Edge AI for human and vehicle detection and classification
- Enables multi-layered security solutions through FLIR Nexus™
- Easy set-up and control via FLIR UVMS and third-party VMS (ONVIF conformant and cyber-certified)

Main Applications

- Enterprise and perimeter security
- Human and vehicle intrusion detection
- Pairing with PTZ cameras for object geo-location and tracking

SPECIFICATIONS

	Quasar 5 MP	Quasar 4K
Image sensor	1/2.8-in CMOS	1/1.8-in CMOS
Sensor resolution	2592 × 1944	3840 × 2160
Lens type	CB-6505-11-IA: Varifocal 2.8 mm–8 mm, 106°–38° HFOV, f/1.3, D/N, motorized autofocus/auto-iris, P-iris lens CB-6505-21-IA: Varifocal 8 mm–20 mm, 36°–15° HFOV, f/1.5, D/N, motorized autofocus/auto-iris, P-iris lens	CB-6508-11-IA: Varifocal 4 mm–9 mm, 117°–50.8° HFOV, f/1.5, D/N, motorized autofocus/auto-iris, P-iris lens CB-6508-21-IA: Varifocal 9 mm–20 mm, 50°–22.3° HFOV, f/1.6, D/N, motorized autofocus/auto-iris, P-iris lens
Sensitivity	0.15 (color)/0.01 (BW), 0 Lux with IR illuminator ON, measured at 30 IRE	0.04 (color)/0.01 (BW), 0 Lux with IR illuminator ON, measured at 30 IRE
Scanning mode	Progressive	
Automatic electronic shutter (AES)	1/3–1/30000 (auto)	
Digital slow shutter (DSS)	1/2–1/30 (NTSC) 1/2–1/25 (PAL)	
White balance	Auto / Manual	
Automatic gain control (AGC)	Auto	
Backlight compensation	On/Off	
Shutter WDR	130 dB on 15 fps 120 dB on 30 fps	
Noise reduction	3D & 2D	
Privacy zones	No	
AI video analytics	Yes	
Day/night modes	Yes, support for Enhanced Low Light performance	
Mechanical IR cut filter	Yes	
Signal-to-noise ratio (SNR)	>50 dB	

Video		
Maximum performance	H.264/H.265 30/25 fps @ 5MP + H.264/H.265 30/25 fps or MJPEG 15fps @ 1080p	H.264/H.265 30/25 fps @ 4K + H.264/H.265 30/25 fps or MJPEG 15 fps @ 1080p
Resolution range	Scalable from D1 to 5 MP	Scalable from D1 to 4K
Compression	Enhanced H.265 main profile + enhanced H.264 Main/high/baseline profile + MJPEG	
Rate control	CBR, CVBR, MJPEG	
SD card recording	MicroSDXC up to 2 TB, SD Bus Mode UHS I (not included)	
IR Illuminator		
Distance	CB-6505-XX-IA: 60 m (200 ft)	CB-6508-XX-IA: 80 m (260 ft)
Angle of illumination	CB-650X-11-IA: 140° CB-650X-21-IA: 60°	
LED type	High efficiency SMD	
Peak emission wavelength	850 nm	
Network		
Network protocols	IPv4, HTTP, HTTPS, UPnP, DNS,NTP, RTSP, RTP, TCP, UDP, ICMP, IGMP, DHCP, ARP, IEEE 802.1X, ONVIF Profile G/T/S	
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	Firefox, Chrome, Edge	
Security	Password protection, Password policy enforcement, IP address filtering, IEEE 802.1X network access control, Digest authentication, CA & self-signed certificates, Protect from failed log-in Service, Firewall	

Specifications subject to change. For the most up-to-date specifications, please visit flir.com.



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SPECIFICATIONS, CONT.

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 (L × W × H)	358 × 79 × 89 mm (14.1 × 3.1 × 3.5 in)			
Unit weight	2.15 kg (4.74 lbs)			
Mechanical				
Pan/tilt/spin	350°/±7.5° ~ -90°/350°			
Electrical				
Power input	12 VDC, 24 VAC, PoE+ IEEE 802.3at			
Power connector	12 VDC, 24 VAC: terminal block PoE: RJ45			
Power consumption		12 VDC	24 VAC	PoE+
	IR ON, Heater OFF	16.6 W	14.6 W	15 W
	IR OFF, Heater ON	17.9 W	15.6 W	16.3 W
Environmental				
Operating temperature	IR ON: -40°C to 50°C IR OFF: -40°C to 60°C Cold start: -40°C			
Storage temperature	-40°C to 60°C (-40°F to 140°F)			
Humidity	0%–95%			
Shock and vibration	ISTA 3A			
Defog	Yes: heater ring			
Salt tolerance	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, EN50130-4, RoHS, RCM, WEEE, BIS, UKCA, ICES-003

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ORDERING INFORMATION

Model	Description
CB-6508-11-IA	FLIR Quasar™ Premium 4K Ultra HD 50.8° (Tele) 117° (Wide) FOV Bullet camera with IR illumination and FLIR Edge AI Video Analytics
CB-6508-21-IA	FLIR Quasar™ Premium 4K Ultra HD 22.3° (Tele) 50° (Wide) FOV Bullet camera with IR illumination and FLIR Edge AI Video Analytics
CB-6505-11-IA	FLIR Quasar™ Premium 5MP 38° (Tele) 106° (Wide) FOV Bullet camera with IR illumination and FLIR Edge AI Video Analytics
CB-6505-21-IA	FLIR Quasar™ Premium 5MP 15° (Tele) 36° (Wide) FOV Bullet camera with IR illumination and FLIR Edge AI Video Analytics



For more information about FLIR Quasar™ Premium Bullet AI, please scan or visit:



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www.flir.com/about/general-inquiries

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