



FLIR Quasar™ Premium 4K IR PTZ

Security Camera With Edge AI



Key Features

- Simplified pan-tilt-zoom tracking and video analytics rule setup with each preset, enabled by embedded Edge AI
- High performance, low light capabilities extending up to 200 m (656 ft) through adaptive infrared illumination, wide dynamic range, and advanced zoom optics
- Evidentiary detail from high quality, 4K (8 MP) video with frames-per-second customization
- Complete NDAA and cybersecure solution with United VMS and open integration with various of 3rd party VMSs

Main Applications

- City surveillance deployments that require wide coverage and long range IR illumination
- Critical infrastructure, airports, and other high-profile security applications where close monitoring over a wide area is challenging

SPECIFICATIONS

Camera	
Resolution	3864 × 2180 (4K)
Image sensor	1/1.8" CMOS
Scanning mode	Progressive
Lens type	CP-6408-31-1A: 31× zoom lens, P-Iris, Auto-Iris, f/1.35, 6.9–214.6 mm CP-6408-21-1A: 22× Zoom lens, P-Iris, Auto-Iris, F 1.5, 6.4–138.5 mm
Digital Slow Shutter (DSS)	Default 1/4; options of 1/60, 1/30, 1/15, 1/8, 1/4, 1/2, 1/1
White balance	Auto/ATW/Manual/One Push
Automatic Gain Control (AGC)	Shutter priority
Back light compensation	On/Off in linear mode
Shutter WDR	130 dB
Noise reduction	3D/2D/Color NR
Tamper detection	Yes
Privacy zones	Yes
Video motion detection	Yes
Day/night mode	Yes
Mechanical IR cut filter	Yes
Signal to Noise Ratio (SNR)	±45 dB
Automatic Electronic Shutter (AES)	1/1 to 1/32,000
Electronic image stabilization	Yes
Sensitivity	CP-6408-31-1A: Color: 0.009 lux, B/W: 0.006 lux CP-6408-21-1A: Color: 0.169 lux, B/W: 0.113 lux
Video	
Compression	Enhanced H.265 Main Profile + Enhanced H.264 Main/High/Baseline Profile + MJPEG
Maximum performance	Up to 4 individually configurable streams in H.265/H.264/MJPEG Configurable resolution/frame rate/bandwidth/ LBR/ VBR/CBR in H.265/H.264

Resolution range	320 × 480 to 3840 × 2160 @30 fps
Bandwidth	Configurable between 64 Kbps and 20 Mbps
Rate control	LBR, CBR, VBR
SD card recording	microSD/microSDHC/microSDXC size up to 1 TB (excluding countries where disallowed); file encryption
Network	
Network protocols	IPv4/6, HTTP, HTTPS, .UPnP, DNS, NTP, RTSP, RTP, TCP, UDP, ICMP, IGMP, DHCP, ARP, IEEE 802.1X, SNMP, QoS, TLS, SMTP, FTP, DDNS, PPPoE, RTCP, Syslog, LDAP
Ethernet	10/100/1000, IEEE802.3bt, auto sensing 1 × 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, 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, M & T
Analytics	
Video analytics	Abandoned object Intrusion detection Camera sabotage Wrong direction Loitering detection Object counting Object removal Stopped vehicle Face detection PTZ auto tracking

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



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SPECIFICATIONS, CONT.

Analytics management	Web-based configuration and management, adjustable sensitivity, automatic responses, remote I/O control
Audio	
Bidirectional audio	Audio in, terminal block, G.711/G.726/AAC/ LPCM, Audio out
Alarm	
Input	Alarm in × 4, 5 V with 10 KΩ pull up, 100 mA @ room temperature
Output	Alarm out × 2, Terminal Block, 400 V DC/AC, 120 mA
Physical	
Enclosure rating	IK10, IP66
Dimensions with sunshield	CP-6408-31-IA: 241 × 349 mm (9.49 × 13.74 in) CP-6408-21-IA: 207 × 300 mm (8.15 × 11.81 in)
Weight	CP-6408-31-IA: 5.5 kg (12.13 lb) CP-6408-21-IA: 3.8 kg (8.38 lb)
Safety cable	Yes
Integrated hardware	CP-6408-31-IA: Wiper
Electrical	
Input voltage	PoE++ IEEE802.3bt, max 51.00 W CP-6408-31-IA: AC 24 V, max 59.65 W, max 78.10 VA CP-6408-21-IA: AC 24 V, max 59.39 W, max 83.25 VA
Power consumption	CP-6408-31-IA: max 56.65 W CP-6408-21-IA: max 59.39 W (including heaters and IR Leds)
Power connector	RJ45, AC
Environmental	
Operating temperature	-40°C to 60°C (-40°F to 140°F) with heater 10% to 90%, no condensation
Storage temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	10% to 90% (non-condensing)
De-icing/defogging	Yes
Warranty & Regulatory	
Warranty	According to FLIR RMA Policy and Process Notice document
USA	FCC Part 15 (subpart B, class A, ICES-003)
International	CE marked, EN 61000-6-3, EN 62368-1, EN 50130-4, CB 62368-1, LVD (CoC), RoHS, RCM, WEEE, ISTA-3A, BIS, UKCA/UKNI
Shock and vibration	IEC 60068-2-64: 2008
Bump and vibration	IEC 60068-2-27: 2008

Pan-Tilt-Zoom	
Pan/Tilt travel	Pan: 0°–360° endless Tilt: -20°–100°
Manual speed	Pan: 0.1°–90°/s Tilt: 0.1°–55°/s
Horizontal viewing angle	Pan: 0°–360°, endless
Presets	256
Preset speed	Pan: 300°/s Tilt: 300°/s
Seq./Auto Pan/Pattern	8/4/8
Auto flip	Mechanical/Off
Proportional Pan/Tilt	On/Off (pan and tilt speed proportional to zoom ratio)
Power loss recovery	Yes
Home function	Preset/Sequence/Auto Pan/Pattern
IR Illuminators	
Distance, angle of illumination	Up to 100 m 6°/30°/90°
LED type	High efficiency SMD
Peak emission wavelength	850 nm

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ORDERING INFORMATION

Model	Description
CP-6408-31-IA	FLIR Quasar™ Premium 4K IR PTZ 31x Zoom Camera with Edge AI
CP-6408-21-IA	FLIR Quasar™ Premium 4K IR PTZ 22x Zoom Camera with Edge AI

For more information
about FLIR Quasar™
Premium 4K IR PTZ,
please scan or visit:

