FLIR*QUASAR*™

1080p PTZ Camera

HIGHEST QUALITY. LOWEST BANDWIDTH. PREDICTABLE STORAGE.

The Quasar family now offers an HD 1080p PTZ camera, offering broadcast video quality and guaranteed frame rates in high motion, complex and low light scenes.

The FLIR Quasar CP-4221-20x HD PTZ delivers one of the lowest bandwidths in the industry through its advanced H.264 motion processing technology.

Now you can…reduce your Total Cost of Ownership (TCO) by deploying this high quality surveillance solution that easily handles the wide variations in motion and lighting found in airports, city surveillance projects, critical infrastructure sites, commercial offices and campuses.

Features

• HD Broadcast Quality H.264 Video

• Multi-streaming at the highest frame rates

• HD 1080p at the lowest bit rate

• Included analytics:

  – Tamper Detection
  – Multi-zone VMD

• Wide Dynamic Range (WDR)

• 20x Indoor or Outdoor continuous auto focus HD precision zoom lens

• Privacy Masking

• Bi-directional audio

• PTZ models offer 24 VAC and PoE options

• Web interface for viewing, control

Benefits

• Crisp, clean video for supreme identification

• Maintains evidentiary integrity of video in challenging surveillance conditions

• Maintains lowest bit rates regardless of motion/scene complexity; lowers TCO with predictable storage and network requirements

• Best out-of-the-box experience with no adjustments; auto scene adaptation eliminates service calls

• Protects against network outages

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General Specifications

Camera

Camera	
Image Sensor	1/2.8" CMOS
Maximum Resolution	1920x1080 (HD 1080p)
Scanning Mode	Progressive
Optical Zoom	20x
Digital Zoom	1 to 10 variable
Focal Lengths	4.7 to 94 mm
Focus Mode	Auto / Manual
White Balance	Auto / Indoor / Outdoor / ATW / Manual
Iris Control	Auto / Manual
Digital Slow Shutter (DSS)	1.0 to 1 / 10,000 with up to 32x sensitivity boost in color or night mode
AGC Control	Auto / Manual
Back Light Compensation	On / Off
Wide Dynamic Range (Multi-shutter)	On / Off
Noise Reduction	On / Off
Tamper Detection	On / Off
Video Motion Detection	On / Off - up to 10 independent zones
Privacy Zones	On / Off - 16 zones
Day / Night: IR Cut Filter	Auto / Manual
Image Rotation	Normal / Flip / Mirror
Minimum Illumination	0.3 (color) / 0.04 (BW), measured with DSS Off at 30 IRE
Signal to Noise Ratio (SNR)	±50 dB

PTZ	
Pan Travel	360° continuous
Tilt Travel	-10° to 190°
Manual Speed	0.13° to 90° / sec
Horizontal Viewing Angles	55.5° (Wide) to 2.8° (Tele)
Presets	256
Preset Accuracy	0.225°
Preset Speed	5° to 400° / sec
Maximum Pan-Tilt Speed	400° / sec
Sequence	8
Auto Pan	4
Pattern	8
Auto Flip	Digital / Mechanical / Off
Proportional Pan & Tilt	On / Off (pan and tilt speed proportional to zoom ratio)
Resume After Power Loss	Yes
Home Function	Preset / Sequence / Auto Pan / Pattern

Alarm	
Alarm	Input: 4 dry alarm contact Output: 2 relay contact, 30 VDC at 2A or 125 VAC at 0.5A max
Alarm Reaction	Preset / Sequence / Auto Pan / Pattern

Electrical	
Input Voltage	PoE+ 802.3at (indoor only), AC 24V ±10%
Power Consumption	Max 20W indoor (CP-4221-200), max 65W outdoor (CP-4221-201) with heater operating**
Power Connector	Terminal block

Video	
Compression	Dual Streaming H.264 / H.264 or H.264 / MJPEG
Maximum Performance	30fps @ HD 1080p + 30fps @ D1 or 15+15 @ HD 1080p
Resolution Range	Scalable from CIF to HD 1080p
Bandwidth	Configurable between 64 Kbps and 8 Mbps
Rate Control	CBR / VBR
SD Card Recording*	SDXC up to 64 GByte

Audio	
Bi-Directional Audio	Full duplex, line / mic in and line out, G.711, G.726
Bandwidth	Configurable between 16 kbps & 64 Kbps (depending on compression method)
Audio Connections	Terminal block

Network	
Network Protocols	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, SNTP, IEEE 802.1X, QoS,ONVIF Profile S
Ethernet	10 / 100 Base-T auto sensing, half / full duplex (RJ45)
Configuration	Remote: via web access or supported video management software
Firmware Upgrade	Remote: via web access or supported video management software
Supported Web Browser	Internet Explorer 6.0+
Security	User account and password protection***

Physical	
Enclosure Rating	Tamper resistant surface mount or IK10 rated vandal IP66 outdoor housing
Dimensions	CP-4221-200: 171.7 x 228.71 mm (6.76 x 9 in.) CP-4221-201: 191.97 x 282.11 mm (7.55 x 11.1 in.)
Unit Weight	CP-4221-200: 1.62 Kg (3.57 lbs.) CP-4221-201: 2.32 Kg (5.11 lbs.)

Mechanical	
Bubble Rating	IK10 vandal resistant polycarbonate
Bubble F-Stop	F0.0 - clear bubble

Environmental	
Operating Temperature	CP-4221-200: 0° to 40° C (32° to 104° F) CP-4221-201: -45° to 50° C (-49° to 122° F)
Storage Temperature	-20° to 70° C (-4° to 158° F)
Humidity	95% (non-condensing)

Warranty & Regulatory	
USA	UL, FCC Part 15 (Subpart B, class A)
International	CE Marked, EN55022-1998 Class A, EN55024, RoHS

Accessories

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.

Note: Warranty – According to FLIR RMA Policy and Process Notice document

* Excluding countries where disallowed
** For the CP-4221-201, heater operates only when connected to an AC 24V power supply
*** Quasar cameras are auto authenticated and discovered automatically by the Latitude VMS

Camera Ordering Information

Type	Series	Camera	Included Analytics	Lens Option	Environmental
CP	42	2	1	XX	X
PTZ Camera	42 = Quasar Series	2 = HD 1080p	1 = Intelligent Multi-zone VMD and Tamper Detection	20 = 20x Optical Zoom	0 = Indoor Tamper Resistant 1 = Outdoor IP66 Vandal with Heater/Fan

ONVIF

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