

CB-5222

FLIR *ioi* HD™

## 2.1MP HD Analytic Bullet Camera



The CB-5222 is a full HD IP bullet camera that combines military-grade video analytics with broadcast quality camera technology. Enjoy the benefits of optimal picture quality under low-light and high-contrast lighting conditions.

The camera's video analytics detects intrusions, fence trespassing, tripwire crossover, unattended baggage, removed object, stopped vehicle and loitering. Rules and scheduled actions are easily defined and configured through the camera's interface. Alarms are sent via FTP, ONVIF, relay or over the web. The CB-5222's analytics provide detection of sophisticated intruders and small objects from a distance, even in the case where large or multiple objects and movement are in the frame. This results in minimal false alarms.

The indoor/outdoor camera automatically calibrates depth settings and offers a choice of three motorized varifocal lenses for remote zoom and auto focus. A single PoE/PoE+ cable connection reduces overall deployment costs.

### HD broadcast quality with military grade analytics

#### Detection Types\*

- Intrusion
- Regional entrance
- Tripwire
- Fence trespassing
- Unattended baggage
- Object removal
- Stopped vehicle
- Loitering
- Camera tampering

#### Features

- Integrated video analytics
- Auto calibration of depth settings
- Supports relay events triggered by analytics (e.g. activate a siren or turn on lights).
- Choice of lenses for increased detection distance
- Reliable detection of sophisticated intruders; people standing upright
- True/Shutter WDR (multi-exposure) at low bandwidth
- Integrated web setup
- Power over Ethernet (PoE/PoE+)

#### Benefits

- Improved security and situational awareness through user-customizable detection rules, positioning criteria, responses, alarms and scheduled actions
- Simplified setup and reduced user errors, installation time, and manpower requirements
- Integration with any relay-activated device
- Fewer cameras required for complete coverage
- Minimum false alarm rates regardless of intruder type (i.e. camouflaged/crawling vs sophisticated intruders)
- Superior quality under diverse lighting conditions results in lower storage costs, electricity, and Total Cost of Ownership (TCO)
- Easy intuitive setup of camera and analytic behavior
- One cable supports network, power and video connections.

\* An additional license is not required. It is possible to simultaneously run five intruders, tampering and loitering rules, one unattended baggage rule or one stopped vehicle rule

## General Specifications

Camera	
Image Sensor	1/2.8" 2.1 Megapixel Progressive Exmor CMOS
Effective Pixels (H x V)	1920 x 1080
Sensitivity	Color: 0.2 lux@f1.4 B/W: 0.1 lux@f1.4 @ 15 FPS, 36dB max. gain
Operation	
Video Resolution	Full HD 1080p
Video Compression	H.264, MJPEG
Video Streaming	30FPS @ 1920 x 1080 @ H.264
Backlight Compensation	On/Off
Bandwidth	Configurable 64Kbps - 8Mbps
Digital Slow Shutter (DSS)	1/15 to 1/10,000 with up to 32x sensitivity boost in color or night mode
Day/Night Mode	Auto/On/Off
Mechanical IR Cut Filter	Yes
AGC Control	Auto/Manual
White Balance	Auto
Noise Reduction	2DNR/3DNR
Wide Dynamic Range	True/Shutter (96 dB) and Digital
Bi-directional Audio	Line In/Line Out
Audio Compression	G.711/G.726
Alarm Input	1x dry contact
Relay Output	1x relay output (rated load 0.3A@ 30VDC)
Analog Video Output	Composite 1v p-p (PAL or NTSC), 1 x BNC 75Ω
Event Notification	HTTP, FTP, ONVIF and Relay
Network	
Ethernet Interface	1x RJ45 10/100/1000Mbps (IEEE 802.3/802.3u/802.3ab)
Protocols	IPv4, TCP, UDP, RTP, RTSP, HTTP, ICMP, FTP, SMTP, DHCP, UPnP, IGMP, SNMP, ONVIF Profile S, NTP
Security	IP Filter, IEEE 802.1x
Internet Browser	Internet Explorer 8, 9, 10, and 11

Lens and Iris	CB-5222-11	CB-5222-21	CB-5222-31
Lens Type	Motorized vari-focal		
Focal Length	3 to 10.5mm	7 to 22mm	6 to 50mm
F Number	F1.4	F1.4	F1.6
FOV	93.2° (Wide); 31.9° (Tele)	40.6° (Wide); 16° (Tele)	55.7° (Wide); 12.7° (Tele)
Iris Control	DC-Iris	DC-Iris	DC-Iris
Physical			
Dimensions (L x W x H)	285 x 96 x 94mm (11.1 x 3.8 x 3.7 in.) with sunshield and fully extended mounting arm		
Weight	940 g (2.07 lbs.)		
Enclosure	IP 66 weatherproof protection, IK10 vandal-proof		
Environmental			
Operating Temperature	-40° to 50°C (-40° to 122°F) w/ 12VDC/24VAC/PoE+ -10° to 50°C (14° to 122°F) w/ PoE		
Storage Temperature	-20° to 70°C (-4° to 158°F)		
Humidity	10% to 90% (non-condensing)		
Electrical			
Power Source	12VDC/24VAC/PoE (802.3af Class 0)/PoE+ (802.3at)		
Power Consumption	25W max		
Regulatory			
Safety	UL, CE		
Electromagnetic Interference (EMC)	FCC 47 CFR Part 15, Subpart B Class A; CE Class A; RCM		
Environmental	RoHS		
Warranty & Regulatory			
Warranty	According to FLIR RMA Policy and Process Notice document		
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.

## Camera Ordering Information

Part Number	Description
CB-5222-11	Full HD 1080p Bullet IP camera with built-in video analytics. D/N, WDR, IR Cut Filter, H.264, 25/30 fps. 1/2.8" CMOS, F1.4 motorized 3-10.5mm auto-focus, DC-Iris lens. 12VDC/24VAC/POE/POE+.
CB-5222-21	Full HD 1080p Bullet IP camera with built-in video analytics. D/N, WDR, IR Cut Filter, H.264, 25/30 fps. 1/2.8" CMOS, F1.4 motorized 7-22mm auto-focus, DC-Iris lens. 12VDC/24VAC/POE/POE+.
CB-5222-31	Full HD 1080p Bullet IP camera with built-in video analytics. D/N, WDR, IR Cut Filter, H.264, 25/30 fps. 1/2.8" CMOS, F1.6 motorized 6-50mm auto-focus, DC-Iris lens. 12VDC/24VAC/POE/POE+.

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