



QUASAR CM-4221 SERIES

HD 1080p Mini-dome

The Quasar CM-4221 series of HD 1080p cameras has expanded to include an IR illuminated broadcast video quality camera that guarantees frame rates in high motion, complex and low light scenes, and lowers your utility costs and carbon footprint.

Offering the industry's lowest bandwidth through its broadcast motion processing architecture, the CM-4221 series delivers predictable storage, lower utility costs and a reduction in your Total Cost of Ownership (TCO).

Now you can...deploy a CCTV HD H.264 1080p surveillance solution that easily handles wide variations in motion and lighting found in airports, city surveillance projects, critical infrastructure sites, commercial offices and campuses utilizing the most technologically advanced HD IP camera.



FEATURES

- HD Broadcast Quality H.264 Video
- Multi-streaming at the highest frame rates
- HD 1080p at the lowest bit rate
- IR Illumination option
- Full-time analog output
- Included analytics:
 - Tamper Detection
 - Multi-zone VMD
- Wide Dynamic Range
- Privacy Masking
- Bi-directional audio
- Web interface for viewing and configuration

Features	Benefits
• Broadcast quality multi-stream H.264 video	• Crisp, clean video for supreme identification
• Guaranteed frame rates in complex, high motion scenes	• Maintains evidentiary integrity of video in challenging surveillance conditions
• Broadcast quality motion processing	• Maintains lowest bit rates regardless of motion/scene complexity; lowers TCO with predictable storage and network requirements
• Auto-tune technology	• Best out-of-the-box experience with no adjustments; auto scene adaptation eliminates service calls
• Snap-in modular camera system	• Ease of installation, service and upgrades
• 4 year+ warranty*	• Manages lifecycle costs / TCO
• Edge-based recording and meta data	• Protects against network outages
• IR model delivers more uniform high quality illumination	• Reduces utility costs, carbon footprint and TCO

* No less than 4 years from date of purchase



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General Specifications

Camera	
Image Sensor	1/2.7" CMOS
Sensor Resolution	2.1MP 1920 x 1080
Scanning Mode	Progressive
Sensitivity	0.3 (color)/0.04 (BW), 0 Lux with IR illuminator ON, measured with DSS OFF at 30 IRE
Lens Type	Varifocal: 3-9 mm F1.2 Auto Iris D/N Horizontal viewing angle: 36.7 to 110° Optional motorized with auto-focus
Automatic Electronic Shutter (AES)	1.0 to 1 / 10,000 (auto)
Digital Slow Shutter (DSS)	1/1 to 1/25 or 1/30 with up to 32x sensitivity boost in color or night mode
White Balance	Auto / indoor / outdoor
Automatic Gain Control	Auto
Back Light Compression	On / Off
Iris Control	DC auto
Wide Dynamic Range (WDR)	On / Off - 3 levels
3D Noise Reduction	On / Off - 6 levels
Tamper Detection	On / Off
Privacy Zones	On / Off - 5 zones
Video Motion Detection	Up to 10 independent zones
Day / Night Mode	Smart IR / auto / on/off
Mechanical IR Cut Filter	Yes
Signal to Noise Ratio (SNR)	±50 dB
Video	
Compression	Fully compliant multi-stream H.264 main profile + MJPEG
Maximum Performance	H.264 30/25 FPS @ HD 1080 + 30/25 FPS @ D1 or 30+30 / 25+25 @ HD720
Resolution Range	Scalable from CIF to HD 1080p
Bandwidth	Configurable between 64Kbps and 8Mbps
Rate Control	CBR/VBR
SD Card Recording*	SDHC up to 32 GByte
Audio	
Bi-Directional Audio	Full duplex, line / mic in and line out, G.711, G.726
Audio Connections	Terminal block
IR Illuminator	
Distance	15 m (50 ft.)
Angle of Illumination	Full 90°
Number of IR LEDs	24
Peak Emission Wavelength (nm)	850

Network	
Network Protocols	IPv4/v6, TCP/IP, UDP Unicast / Multicast, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, SNTp, QoS, ONVIF Profile S, IEEE 802.1X
Ethernet	10 / 100 Base-T auto sensing, half / full duplex (RJ45)
Configuration	Remote: via web access or supported video management software
Firmware Upgrade	Flash memory for upgrade of camera firmware over the network (1GB Flash / 2GB RAM)
Supported Web Browser	Internet Explorer 6.0+
Security	User account and password protection
Alarm	
Input	1 dry alarm contact
Output	1 relay contact, 60V AC / DC at 130 mA maximum
Physical	
Enclosure	Indoor: Tamper resistant surface mount plastic case or Indoor/Outdoor: IK10 rated vandal IP66
Dimensions	Indoor / Outdoor: 151 x 130 mm (5.9 x 5.1 in.)
Unit Weight	Indoor: 0.8 Kg (1.8 lbs.) Outdoor: 1.3 Kg (2.9 lbs.)
Mechanical	
Bubble Rating	IK10 vandal resistant polycarbonate
Bubble F-Stop	F0.0 - clear bubble / F1.0 - smoke bubble (option)
Pan / Rotate / Tilt	350, 350 and ±90°
Electrical	
Input Voltage	12 VDC / 24 VAC ±10% or 802.3af PoE
Power Consumption	6W indoor or 13W outdoors with heater / fan / IR
Power Connector	AC / DC terminal block or PoE
Environmental	
Operating Temperature**	Indoor: 0° to 50° C (32° to 122° F) Outdoor: -30° to 50° C (-22° to 122° F)
Storage Temperature	-20° to 70° C (-4° to 158° F)
Humidity	95% (non-condensing)
Warranty & Regulatory	
Warranty	According to DVTEL RMA Policy and Process Notice document
USA	UL, FCC Part 15 (subpart B, class A)
International	CE marked, EN55022-1998 class A, EN55024, RoHS

Camera Ordering Information

Type	Series	Camera Resolution	Included Analytics	Lens Options	Environmental	IR Illuminator
CM	- 42	2	1	- X	X	- I
Mini-Dome Camera	- 42 = Quasar	2 = HD 1080p	1 = Intelligent Multi-zone VMD and Tamper Detection	- 0 = 3-9mm Auto Iris / 1 = 3-9mm Motorized Auto Focus	0 = Indoor Tamper Resistant 1 = IP66 Vandal with Heater/Fan	- I = 90° Illuminator

Note: IR illuminator option is available only with motorized varifocal lens cameras

Accessories

A complete list of mounts, brackets, pole mounts and recess kits for cameras can be found in the DVTEL Price List and Camera Accessory Guide.

* Excluding countries where disallowed

** Outdoor IR models support -30 with 12 VDC and 24 VAC only, not with POE