

Highest Quality. Lowest Bandwidth. Predictable Storage.

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	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

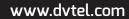
by dvtel



VIDEO INNOVATION TO SECURE YOUR BUSINESS



- 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



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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				

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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				

Accessories

Excluding countries where disallowed

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Camera Ordering Information

Туре		Series	Camera Resolution	Included Analytics		Lens Options	Environmental		IR Illuminator
CM	-	42	2	1	-	Х	х	-	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	-	l = 90 ° Illuminator

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

www.dvtel.com

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.

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