



# VIDEOIQ®

Powerful. Proactive. Zero Bandwidth.



## VideoIQ® iCST Streaming Cameras and Encoders

iCST streaming cameras and encoders are revolutionary devices that deliver state of the art video quality, superior lens options, powerful analytics, and an advanced video management system. Designed for central storage environments, VideoIQ streaming cameras and encoders include VideoIQ's award winning embedded self-calibrating analytics, delivering superior real-time threat detection. Finally, VideoIQ iCST cameras and encoders are pre-integrated with leading video management platforms to meet individual customer needs.

### Key features:

- **The most advanced video analytics in the industry.** iCST camera and encoder real-time threat detection relies on VideoIQ's award winning self-calibrating analytics. Uniquely distinguishing people, vehicles and boats from other objects, animals and scene movement, VideoIQ's self-calibrating analytics deliver the most accurate threat detection on the market. The cameras and encoders issue alarms only when there is a viable threat, saving time and money by enabling security personnel to focus only on events of high interest.
- **Zero calibration.** VideoIQ's self-calibrating analytics eliminate the need to tune or adjust the analytics during installation. VideoIQ's self-calibrating analytics also get more accurate with each object detected. As a result, customers gain the highest level of accuracy on the market while reducing ongoing maintenance time and resources.
- **Email notification.** Whenever a rule configured by the customer is triggered, emails can be sent directly to any device supporting video email attachments or video mms, including cell phones, and smart phones, making it ideal for roaming guards or remote facility managers. Emails can be sent to as many as 32 approved addresses at the same time, and users can have their video system automatically notify them and send video clips of intruders or security breaches.
- **Two-way audio with recording capability.** VideoIQ streaming cameras and encoders can be configured for both audio talk down and listening capability, including full automated recordings of alarm events.
- **"Head and shoulders" indoor analytic detection.** This indoor detection mode enables accurate detection and tracking of people even when desks and furniture substantially obscure them as they move through a typical office environment.
- **Designed for every environment.** The VideoIQ streaming cameras and encoders are designed for even the most challenging outdoor and indoor environments with ultra wide dynamic range, dual encoding, H.264 day/night operation and Power over Ethernet.
- **Integrated with leading VMS software solutions.** VideoIQ iCST cameras and encoders are designed to provide outstanding video and accurate realtime threat detection to environments using central storage and leading 3rd party Video Management Systems. Drivers are available to seamlessly integrate iCST products with VMS products from Milestone, OnSSI, Genetec, Lenel, Vidsys, and many others. See [www.VideoIQ.com](http://www.VideoIQ.com) for the latest information.

# iCST Camera and Encoder — Specifications

## IP Cameras and Encoders with onboard self-calibrating analytics

All dome cameras available in Low Temp model

### HD Fixed Dome Camera Models

- VIQ-MPD200-3-8 — Day/night, streaming, 3-8mm lens

### D1 Fixed Dome Camera Models

- VIQ-CID100-3-8 — Indoor only, streaming, 3-8mm lens
- VIQ-CRD200-3-10 — Day/night, streaming, 3-10mm lens

### Encoder Models

- VIQ-E1000 — One channel — streaming

### Encoder Accessories Available

- VIQ-ERMK — Encoder 19" Rack-Mount Kit

### Camera Accessories Available

- Full range of mounting accessories available, including recessed, surface, pendant, wall, corner, pole mount, lenses outdoor housings and brackets — see Product Matrix

### HD Camera Specifications

- Wide dynamic range 1080p CMOS image sensor
- Mechanical Day/Night Filter
- 1920 X 1080 pixels (1080p)
- Dynamic Range: 90dB (typical)
- Sensitivity 0.25 lux at F1.2
- Signal to Noise greater than 50db
- Auto iris and white balance control
- Analog output: NTSC or PAL via BNC connector

### D1 Outdoor Camera Specifications — CRD and CT Series

- Ultra wide dynamic range 1/3" image sensor
- Mechanical Day/Night Filter
- 704 X 480 pixels (D1)
- 540 lines horizontal resolution
- Dynamic Range: 102dB (typical) 120dB (max)
- Sensitivity 0.025 lux at F1.2 (for CRD Series only)
- Sensitivity 0.1 lux at F1.2 (for CT Series only)
- Signal to Noise greater than 52db
- Auto iris and white balance control
- Analog output: NTSC or PAL via BNC connector

### VGA Indoor Camera Specifications - CID Series

- 1/3" progressive CMOS image sensor
- 640 X 480 pixels (VGA)
- 480 lines horizontal resolution
- Sensitivity 1.0 lux at F1.2

- Signal to Noise greater than 50db
- Manual iris with auto white balance control
- Analog output: NTSC or PAL via BNC connector

### Video Specifications for all models

- H.264 compression
- Frame Rate: Up to 30 frames per second in all resolutions
- Dual Stream Encoding: Alarm events at high quality, resolution and frame rate. Continuous recording at lower quality, resolution and frame rate. (Selectable)
- Visual alarm indicators (colored boxes around objects detected) can be turned on or off at the camera or display software
- Programmable pre-alarm video recording

### Networking and Communications for all models

- Ethernet 10/100 BaseT — RJ45 connector
- Protocols: HTTP, HTTPS, TCP, RTSP, UDP, RTP, DHCP, NTP, DNS
- ZeroConf auto IP discovery of cameras
- Security: Multiple user access levels with password protection, IP address filtering, and HTTPS encryption
- Web browser access to camera via built-in web server

### Self-Calibrating Video Analytics for all models

- Powerful VideoIQ self-calibrating analytic engine with rich library of behaviors
  - Fence-line and Perimeter Crossing Detection
  - Area Protection
  - Direction of Travel Alerts
  - Crowd Detection
  - Loitering and Dwell Time Alarms
  - Missing Object Detection
  - Cross Camera Object Search
- Automatic alarm reporting with video verification clip
- Fully automated calibration and tuning: delivering the highest level of accuracy while reducing installation time and maintenance

### Alarm and Audio Inputs and Outputs (For all models except CID100 series)

- 3.5mm Audio I/O jack (Encoder)
- RCA Audio I/O jack (Dome cameras)
- Audio compression: G.711
- Audio streaming live two-way: full duplex
- Audio recording — alarm or continuous
- Two alarm inputs — TTL
- Alarm output — Optical relay, 20mA max., programmable normally open or normally closed

### Diagnostics for all models

- Loss of communications trouble alert
- Hard drive failure alert
- Scene change trouble alert
- Self-diagnostics built in

### Power

- Power over Ethernet (IEEE 802.3af) class 3
- 12VDC: 10W max (Not available in CID100 series)
- 24VAC: 10W max (Not available in CID100 series)
- 7 watts typical for D1 cameras, 6 watts typical for encoders, 9 watts typical for megapixel cameras

### Low Temp Models (when below 15°F)

- 12VDC: 45W (HD), 42W (D1)
- 24VAC: 45W (HD), 42W (D1)
- Typical: 35W (HD), 32W (D1)

### Environmental for all models

- Operating Temp for CT and CID Series: 0°C to 50°C (32°F to 122°F)
- Operating Temp for CRD and MP Series: -20°C to 50°C (-4°F to 122°F)
- Heater and blower built into CRD and MP dome models
- Storage Temp: -30°C to 70°C (-22°F to 158°F)
- Humidity: 20-80% RH (non-condensing)

### Dimensions for all models

- MP, CRD and CID Series Camera Dimensions: 6.3" outer diameter x 8.19" tall (with surface mount kit) (16.00 cm outer diameter x 20.8 cm tall)

### Encoder Specifications — E1000 Series

- Protocol pass-through to PTZ cameras — RS485
- Pelco P or D protocol
- Software PTZ control from View software
- Video input: NTSC or PAL via BNC connector

### VideoIQ View™ Software System Requirements

- CD-ROM with View software included with camera
- Core-2 Duo 2.0 GHz CPU or higher
- 2 GB RAM or higher
- Windows XP, Vista, or Windows 7

### Warranty

- 2-years, parts and repair labor



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