



## VideolQ® iCVR™

Introducing the world's first and only intelligent surveillance cameras and encoders with built-in video recording.

The VideolQ iCVR combines automated event detection, a built-in DVR and integrated video management into a single solution — all driven by next-generation analytics. The result is the simplest, most proactive video surveillance solution to keep your organization and its most important assets safe, whether you need one camera or 1,000.

### Simply Better Surveillance

- **Complete with built-in DVR.** Unlike other video surveillance cameras and encoders that require the separate purchase of a DVR, the VideolQ iCVR comes complete with an intelligent DVR built in. The all-in-one product is a standalone system that provides a distributed storage architecture with no single point of failure.
- **Minimal bandwidth and storage requirements.** The VideolQ iCVR stores all video at the edge, intelligently controls storage resolution based on what it sees, sends alerts with lightweight video clips based on rules created by the customer, and only streams video on user request.
- **Scalable approach to security.** The VideolQ iCVR is ideal for use in organizations of all sizes. Adding a camera to the network as needed is simple, easy and cost-effective — requiring no substantial investment in infrastructure. Moreover, with the iCVR, node failures are contained which means your surveillance system never goes down.
- **Simple setup and operation.** Once installed, VideolQ's advanced analytics automatically calibrate, and its self-learning technology gets smarter about its environment with each object detected.
- **Most accurate analytics.** The VideolQ iCVR is the most accurate video surveillance solution, used by businesses to quickly and automatically pinpoint security threats. The iCVR's automated event detection issues alarms when there is a viable security threat, saving time, money and energy while enabling security personnel to focus on events of high interest.





- Fully integrated solution.** Every VideoIQ iCVR is a complete solution, with a state-of-the-art camera, embedded DVR, powerful analytics, and video management software — all in a single device. Nothing else but your network and power is required to solve your surveillance needs.

- The industry's highest video quality — when you need it.** The VideoIQ iCVR dynamically captures critical events at the highest frame rate, resolution and quality, while at the same time continuously records everything at the usual lower quality settings used in DVRs. Since the camera knows what video is important, customers never need to sacrifice quality.
- Rapid incident investigation.** VideoIQ's powerful object search capability enables customers to specifically search for a person or vehicle of interest simply by clicking on their image. VideoIQ automatically searches across terabytes of video from any of the VideoIQ cameras and encoders on the network, and delivers results in seconds.
- Automatic e-mail notification.** When security threats are detected, the iCVR directly e-mails alarm messages to a user-defined list. Recipients use a web browser to instantly access the recorded alarm video clip and the live stream from the camera, enabling them to evaluate the threat immediately and contact appropriate authorities from any location or supported device.

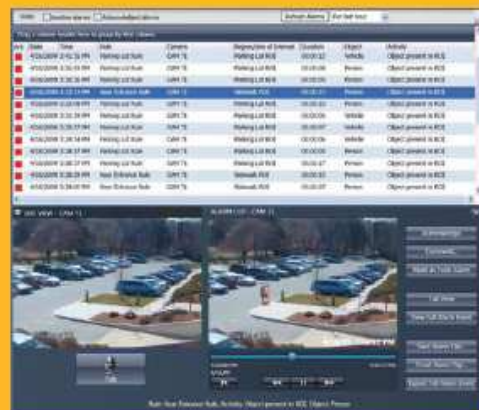
## VideoIQ View™ Software (included)

Enables you to access the power of one iCVR or hundreds



### Highly Flexible Video Storage Search

- Finds recorded video from any camera in your network
- Search by time, camera groups, rule violation type, object type, etc.
- Selectable to find alarm event video only or all video
- Click & Search for global object search



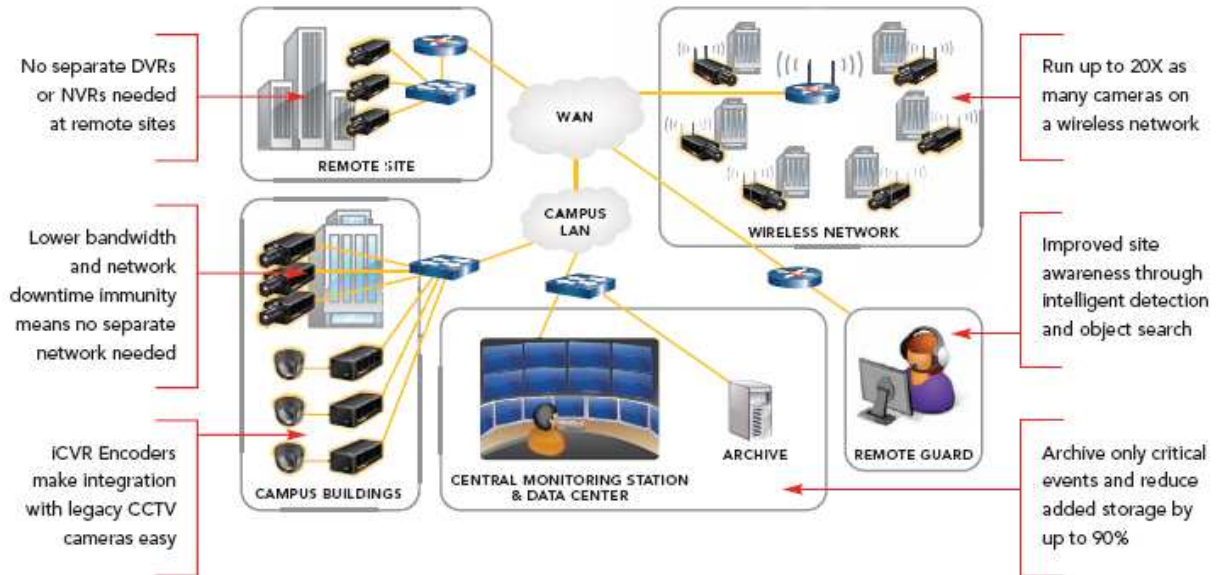
### Event Driven Alarm Review Screen

- Alarm list with camera name, rule violation, object type, time, etc.
- Click on alarm line to view event video clip and live view
- Audio output to any camera
- Email or store alarm clips

### Browser Access

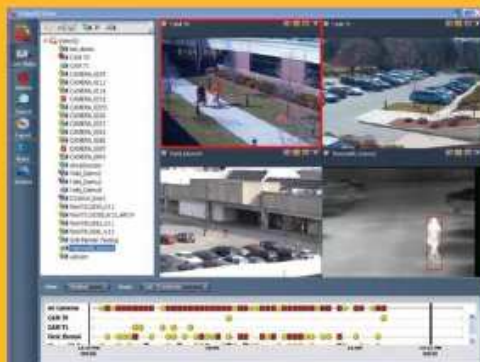
- Browser access allows viewing of the VideoIQ iCVR from any PC, along with the last 10 event video clips recorded

## The VideoIQ iCVR Eliminates Analytic Servers, DVRs, NVRs, Excess Archive and Excess Network



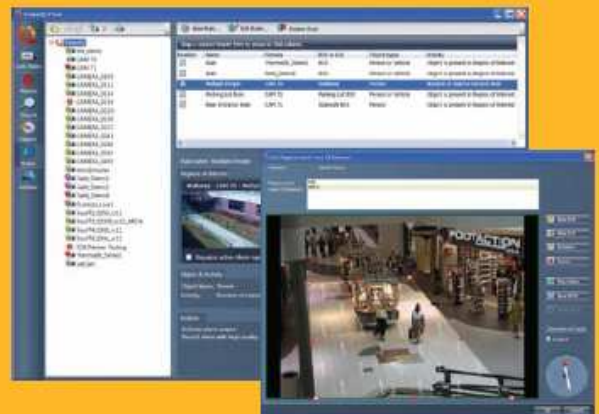
### Object Search

- Click on the object you want to search for and retrieve matching video clips from any or all iCVR cameras and encoders
- The VideoIQ View™ software finds results in seconds.



### Live Camera Streaming at Up to D1 @ 30 Frames Per Second

- Up to 16 cameras at QCIF — each window selectable size
- Select cameras individually or by group
- Automatic adjustment of streaming resolution by window size
- Red outlines around camera window with active alarms
- Alarm event timeline with adjustable time window



### Group Management and Camera Configuration

- Set up any camera either locally or via the network
- Full camera control and compression settings
- Complete setup of rules, regions of interest, alarm inputs and outputs
- Storage and archive control for all your cameras from one screen



Four iCVR Encoders fit in a 19" rack-mount kit



Encoder Back Panel



Camera Back Panel

## iCVR Cameras and Encoders — Specifications

### IP Cameras and Encoders with Built-in Video Analytic Detection, Object Search, Content Aware Storage & Networking

#### Camera Models

- VQ-CT200 — No hard drive
- VQ-CT208 — 80 GB Hard Drive
- VQ-CT216 — 160 GB Hard Drive

#### Camera Accessories Available

- Outdoor housing, mounts and lenses

#### Camera Specifications

- Ultra wide dynamic range 1/3" image sensor
- Mechanical Day/Night Filter
- 704 X 480 pixels (D1), 352 X 240 (CIF),
- 540 lines horizontal resolution
- Dynamic Range: 102dB (typical) 120dB (max)
- Sensitivity 0.1 lux at F1.2
- Signal to Noise greater than 52db
- Auto Iris and white balance control
- Adjustable C or CS lens mount (lens not included)
- Analog output: NTSC or PAL — BNC connector

#### Encoder Models

- VQ-E1000 — One channel — No hard drive
- VQ-E1008 — One channel — 80 GB Hard Drive
- VQ-E1016 — One channel — 160 GB Hard Drive
- VQ-ERMK — Encoder 19" Rack-Mount Kit

#### Encoder Specifications

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

#### Storage Specifications

- Internal storage: 1 GB solid state memory in all models
- All hard drives include patent pending hard drive lifespan extension technology: increases life expectancy of hard drive to 10+ years
- SD slot for optional SD flash memory card (card not included)

#### Video Compression Specifications

- 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 display

#### Networking and Communications

- Ethernet 10/100 BaseT — RJ45 connector
- Protocols: HTTP, HTTPS, TCP, RTP, UDP, RTPC, DHCP, NTP, DNS
- ZeroConf auto IP discovery of cameras
- Security: Multiple user access levels with password protection, IP address filtering, and HTTPS encryption
- Serial communications: RS-232 and RS-485 — terminal block
- USB port: USB 2.0
- Web browser access to camera for camera settings via built-in web server

#### Video Analytics

- Powerful VideoIQ 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
  - Cross Camera Object Tracking and Search
- Automatic alarm reporting with highlighted video clip
- No camera calibration or tuning ever needed

#### Alarms and Audio

- 3.5mm Audio output jack
- Audio compression: G.711
- Push-to-talk audio control
- Alarm Input — TTL
- Arm/Disarm Input — TTL
- Alarm output — Optical relay, 250mA max., programmable normally open or normally closed

#### Camera and Encoder Diagnostics

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

#### Power

- Power over Ethernet (IEEE 802.3af) class 3
- 12VDC: 10W max
- 24VAC: 10W max
- Camera models: 7 watts typical
- Encoder models: 6 watts typical

#### Environmental

- Operating Temp: 0°C to 50°C (32°F to 122°F)
- Storage Temp: -20°C to 70°C (-4°F to 158°F)
- Humidity: 20-80% RH (non-condensing)

#### 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
- Windows XP or Vista

#### Dimensions and Weight

- Camera Dimensions (L x W x H): 7.80" x 3.45" x 2.45" (19.40 cm X 8.75 cm X 6.20 cm)
- Encoder Dimensions (L x W x H): 7.60" x 3.45" x 2.45" (19.30 cm X 8.75 cm X 6.20 cm)
- Weight: 1.4 pounds (620 grams)

#### Warranty

- 2-years, parts and repair labor

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