



VideoIQ® iCVR™

The World's First Network Camera with
Built-in Intelligent Detection, Object Search
and Content Aware Storage



VIDEOIQ
SMART VIDEO SURVEILLANCE

A complete intelligent surveillance system in a camera.

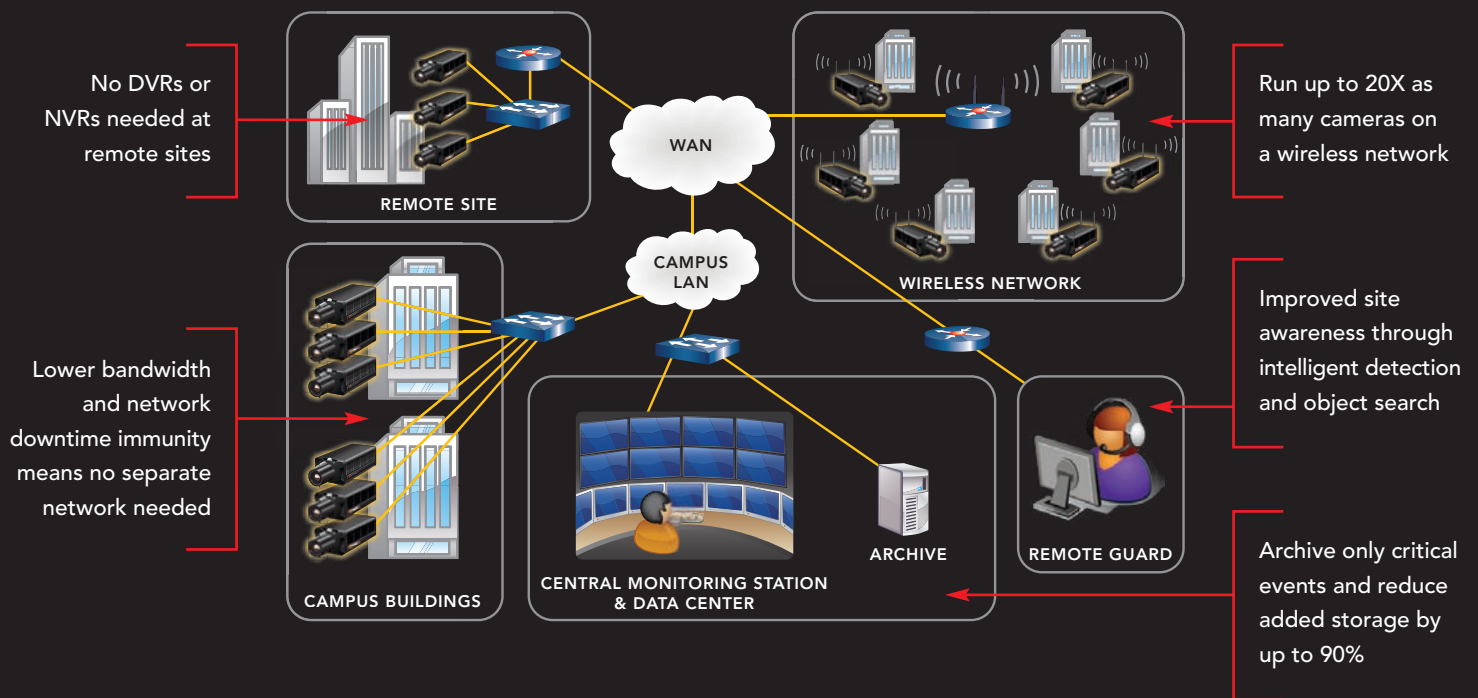
VideolQ introduces the world's first iCVR™ — **intelligent surveillance Camera with Video Recording**. The VideolQ iCVR is the first high performance day/night network camera with content aware storage, intelligent networking, analytic detection, and object search built right into the camera. VideolQ has solved the bandwidth and storage challenges of traditional network cameras, while turning video into a powerful security solution for both incident detection and investigation. It sets a new benchmark for scalability, fault tolerance, ease of use and total cost of ownership in network video surveillance. The result is a revolutionary approach to IP video surveillance.

Simply Better Surveillance

- **A high quality camera for everywhere** — Designed with ultra wide dynamic range, dual encoding, two-way audio, H.264 and MPEG-4, day/night operation, and PoE — it is ideal for the most challenging indoor and outdoor locations.
- **No separate NVRs or DVRs to buy, configure or maintain** — With up to 160 GB of storage in every camera — enough to provide both high quality recording of critical events and basic recording of other video for up to 3 months — it's the simplest, most scalable network surveillance system available, whether installing one camera or thousands.



- **Network friendly** — The only IP cameras and encoders that don't require bandwidth except when something important is happening, yet record everything internally. It instantly solves the bandwidth problem with IP cameras. Alarms are also sent immediately to operators with short, bandwidth-friendly video clips, reducing network demands even further.
- **Intelligent recording quality** — VideolQ's content-aware storage with dual-encoding captures the events you define as important at the highest resolution and frame rate, while at the same time continuously recording all video at the usual lower quality settings used in DVRs. Since the camera knows what video is important based on the rules you select, you never need to compromise quality for bandwidth and storage capacity again.
- **Never lose video** — VideolQ systems never lose video recording when the network goes down — planned or unplanned — even during extended downtime — since everything is stored in the camera. This means you can save the cost of running and maintaining a separate network for surveillance.
- **The first truly plug-and-play analytics with automatic learning** — VideolQ's superior object recognition accuracy acts like a "digital guard" that warns you of threats, without the need for time consuming camera calibration or tuning. It is as easy to use as video motion detection and transforms video into a proactive security solution.

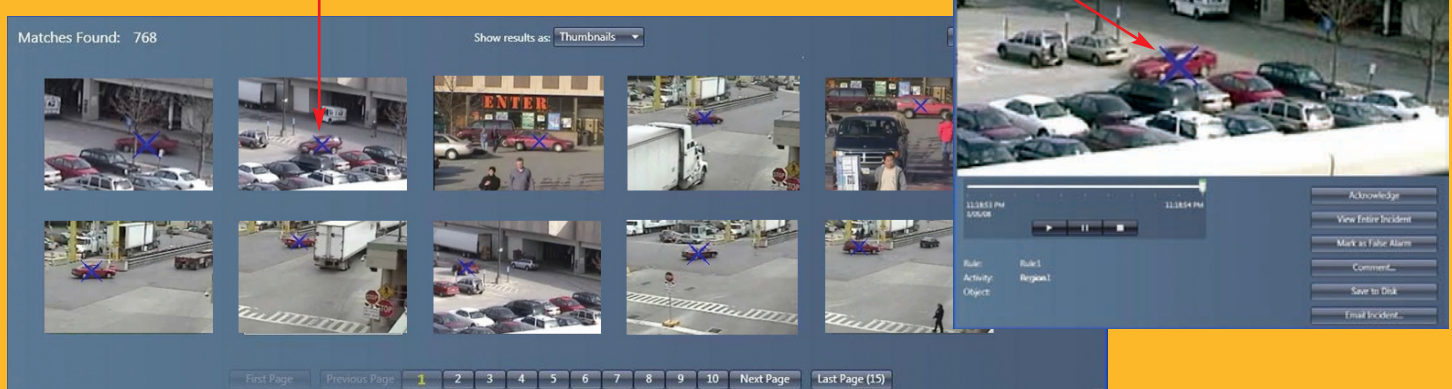


- **The only system with Click & Search™** — VideolQ's powerful search capability lets you search for the person or vehicle you want with just a click of the mouse. VideolQ automatically searches across terabytes of video and delivers results to you in seconds.
- **High reliability and low cost of ownership** — The iCVR features patent pending, hard drive life extension technology designed to increase the life expectancy of its internal hard drive by a factor of 4 — exceeding the typical 20 year lifespan of a camera, plus internal

redundant recording of critical video events in solid state memory — making it the most reliable, cost-effective IP video system to install, maintain and service.

- **Designed for Integration** — VideolQ products are designed to work with and extend your existing surveillance system. VideolQ encoders work with virtually any analog camera installed at your site — normal, day/night, infrared and thermal — all with no configuration changes. VideolQ cameras are standards-based and feature open APIs — enabling integration with third party video management software and central archive storage systems.

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



VideIQ View Software (included)

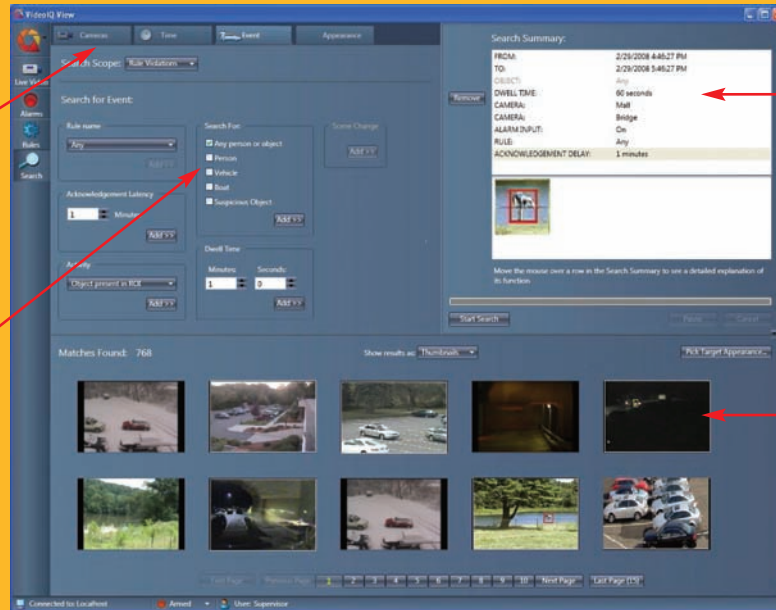
Enables you to access the power of one iCVR camera... or hundreds

Search Categories:
Cameras, Time,
Event Type, etc.

Under Event Types:
Search by Object
Type, Dwell Time,
Rule name, etc.

Summary of
search criteria

Video Clips
retrieved



Highly Flexible Video Storage Search

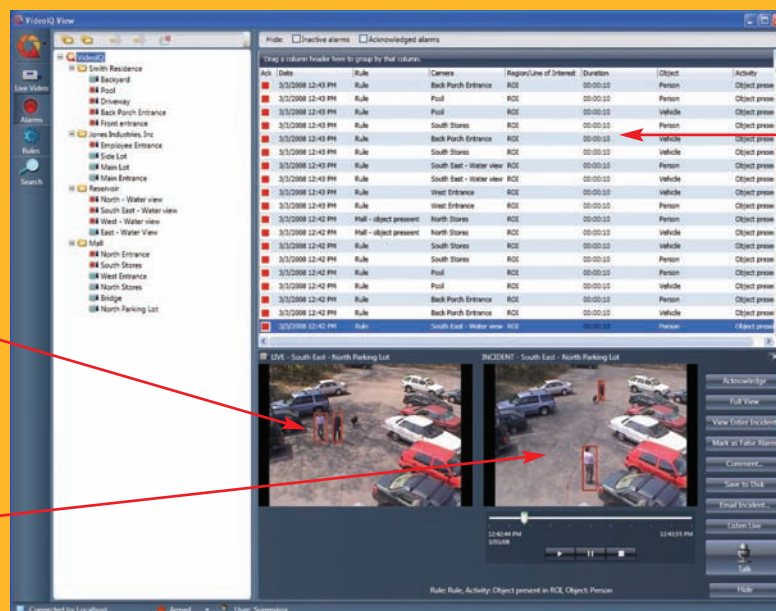
- Finds recorded video from any camera in your network
- Search by time, camera groups, rule violation type, object type, etc.
- Selectable to find alarm event video only or all video
- Click & Search for global object search

Live view of camera
that went into alarm

Video clip of
alarm event

Alarm list can be sorted by
time, camera activity, etc.

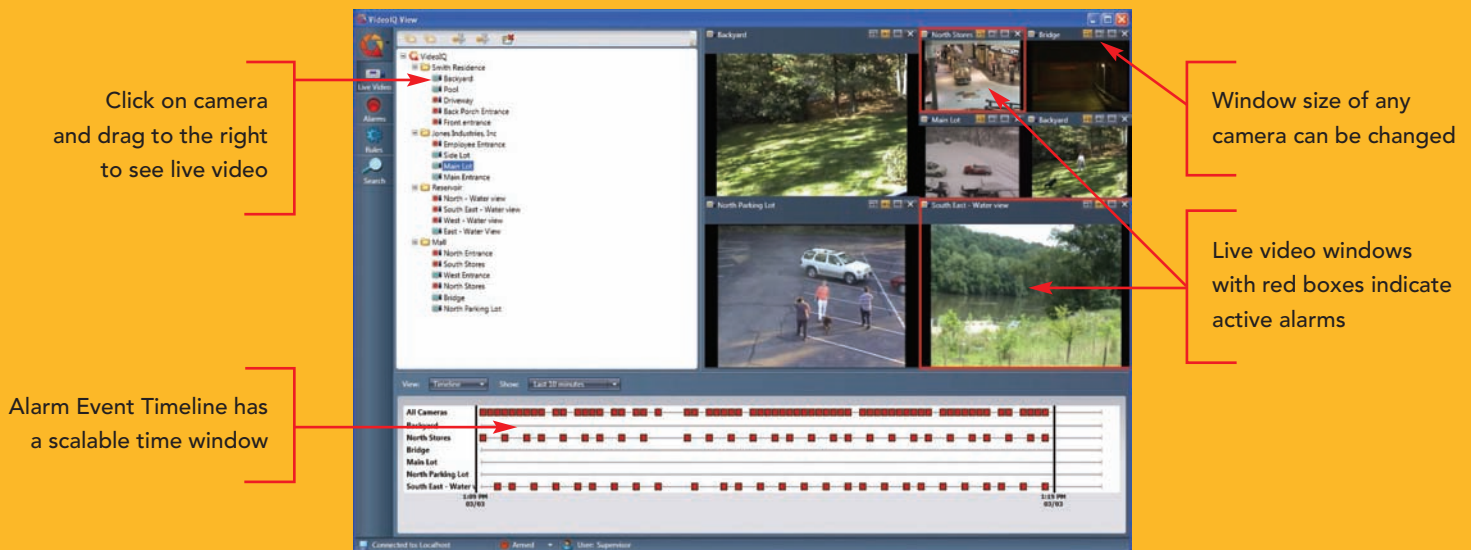
"Mark as False Alarm"
button teaches system
to prevent false alarms*



Event Driven Alarm Review Screen

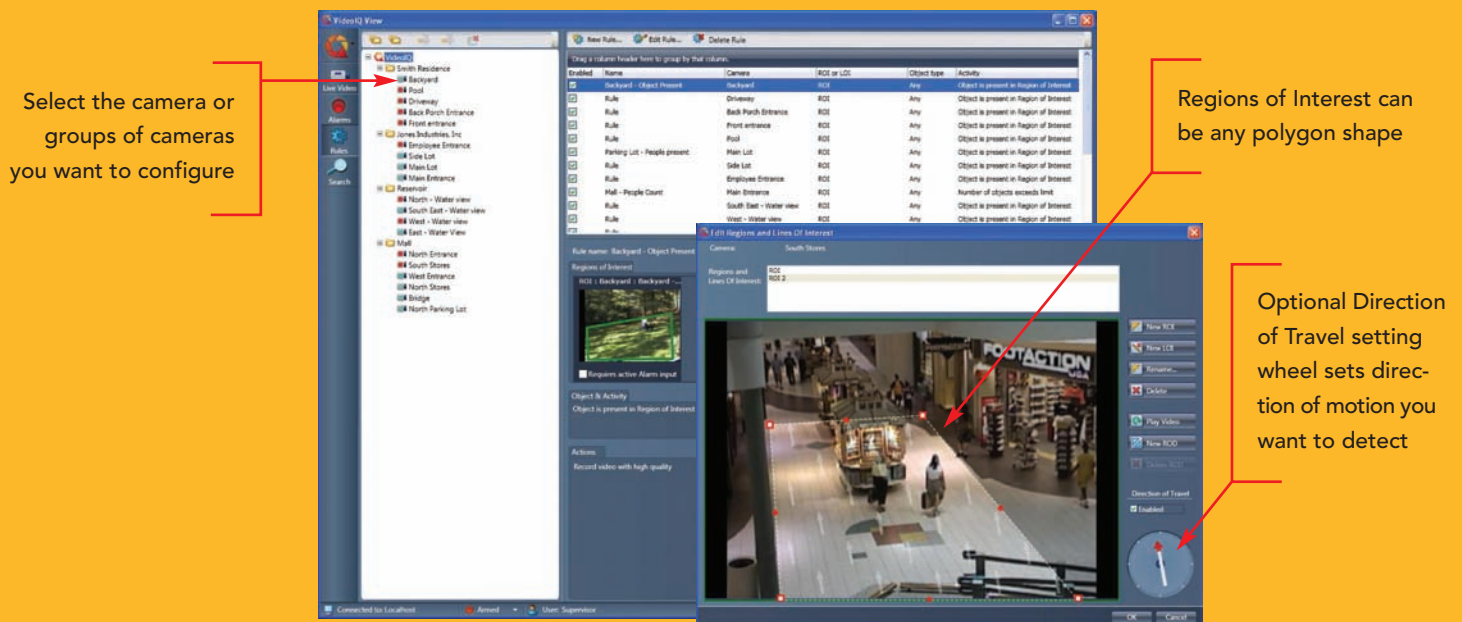
- Alarm list with camera name, rule violation, object type, time, etc.
- Click on alarm line to view event video clip and live view
- False Alarm button helps the system learn and reduces false alarms*
- Two-way audio interface to any camera
- Email or store alarm clips

* Coming in a release later in 2008



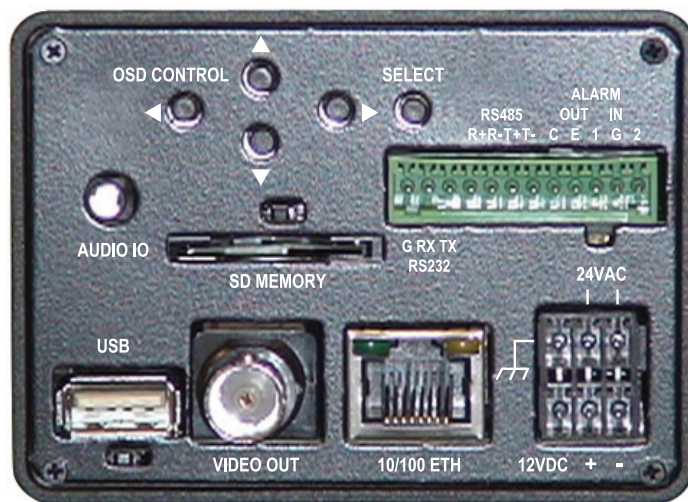
Live Camera Streaming at Up to D1 @ 30 Frames Per Second

- 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



CT200 Series Smart iCVR Cameras — Specifications

IP Camera with Built-in Video Analytic Detection, Object Search, Content Aware Storage & Networking

Camera Models

- VIQ-CT200 — No hard drive
- VIQ-CT208 — 80 Gbyte Hard Drive
- VIQ-CT216 — 160 Gbyte Hard Drive

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), 176 X 120 (QCIF)
- 540 lines horizontal resolution
- Dynamic Range: 102dB (typical) 120dB (max)
- Sensitivity 0.5 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 — with onscreen controls

Storage Specifications

- Internal storage: 1 Gbyte solid state memory in all models
- Internal hard drive: 80 Gbyte drive in CT208, 160 Gbyte in CT216
- All hard drives include patent pending hard drive lifespan extension technology: increases life expectancy of hard drive to 20+ years
- Redundantly stores alarm event video in hard drive and solid state memory
- SD slot for optional SD flash memory card (card not included)

Video Compression Specifications

- H.264 or MPEG-4 compression (selectable)
- Frame Rate: Up to 30 frames per second in all resolutions
- Dual Stream Encoding: Encodes alarm events at high quality, high resolution, high frame rate, with continuous recording a 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, RTSP, UDP, RTP, DHCP, NTP, DNS
- ZeroConf auto IP discovery of cameras
- Security: Multiple user access levels with password protection, IP address filtering, HTTPS encryption
- Serial communications: RS-232 and RS-485 — terminal block
- USB port: USB 2.0, wireless ready
- Web browser access to camera for camera settings via built-in web server in camera

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

- Two-way audio — 3.5mm Audio I/O jack (microphone and speaker not included)
- 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
- Easy to use rules-based setup for analytics alarms

Camera Diagnostics

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

Power

- Power over Ethernet (IEEE 802.3af) class 3
- 12VDC: 7 to 20 VCD — 11W max
- 24VAC: 16 to 28 VAC — 11W max
- 8 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
- Pentium III CPU 800MHz or higher, or equivalent AMD processor
- 1 Gbyte RAM
- Windows XP or Vista

Dimensions and Weight

- Dimensions (L x W x H): 7.25" x 3.25" x 2.38" (18.40 cm X 8.25 cm X 6.05 cm)
- Weight: 1.4 pounds (620 grams)

Warranty

- 2-years, parts and repair labor

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