



VideoIQ® iCVR™

The World's First Family of Network Cameras
and Encoders with Built-in Intelligent Detection,
Object Search and Content Aware Storage



VIDEOIQ®
SMART VIDEO SURVEILLANCE

Complete intelligent surveillance systems inside cameras and encoders.

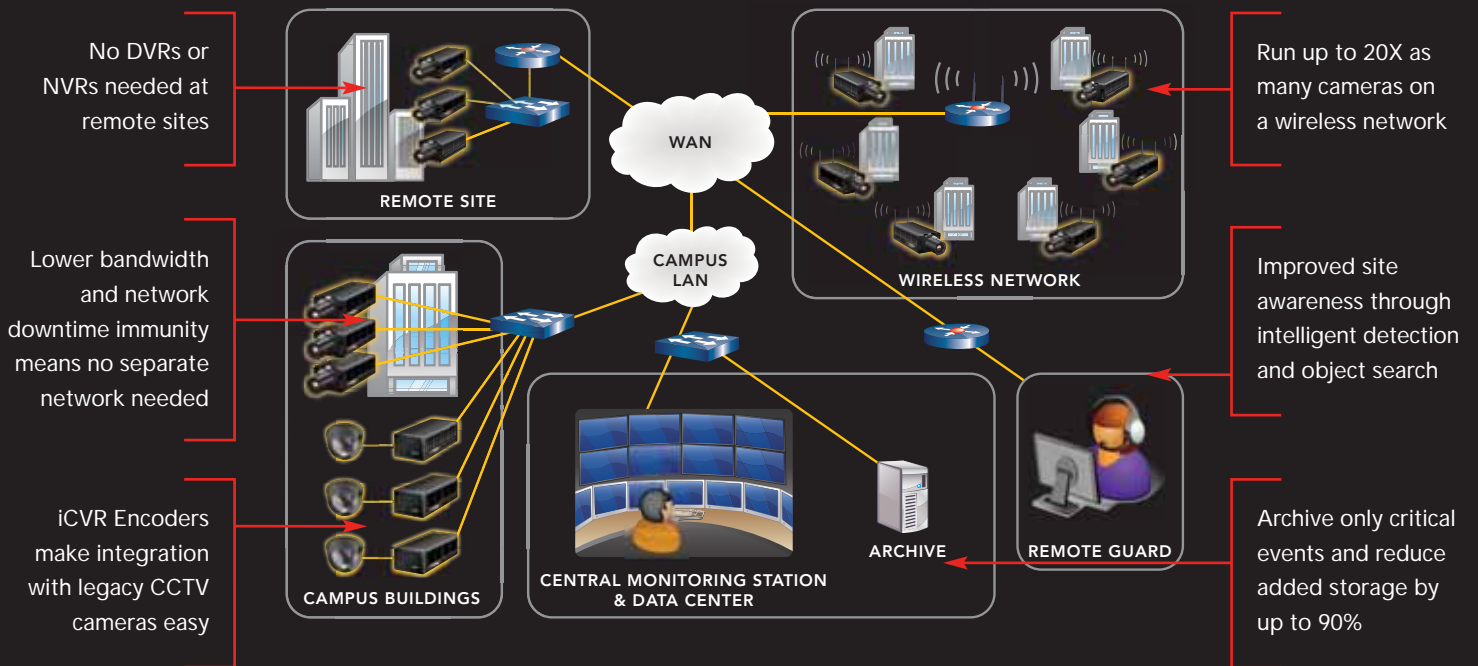
VideolQ introduces the iCVR™ family — **intelligent surveillance cameras and encoders with video recording**. Building advanced video analytics, content-aware storage and intelligent networking into high-quality security cameras and encoders revolutionizes how IP video surveillance works. VideolQ has solved the bandwidth and storage challenges of traditional network cameras, while turning video into a powerful security solution for both incident detection and investigation. The iCVR sets a new benchmark for scalability, fault tolerance, ease of use and total cost of ownership in network video surveillance.

Simply Better Surveillance

- **A high quality camera for everywhere** — The iCVR camera is designed with ultra wide dynamic range, dual encoding, audio output, 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 and encoder — enough to provide both high quality recording of critical events and basic recording of other video for up to 3 months — it's the most scalable network surveillance system available, whether installing one 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 iCVR products know 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 goes far beyond Advanced Motion Detection, with the ability to distinguish between objects of similar sizes and ignore highly active backgrounds. Moreover, it works without time-consuming camera calibration or tuning. It is as easy to use as video motion detection yet far more accurate.



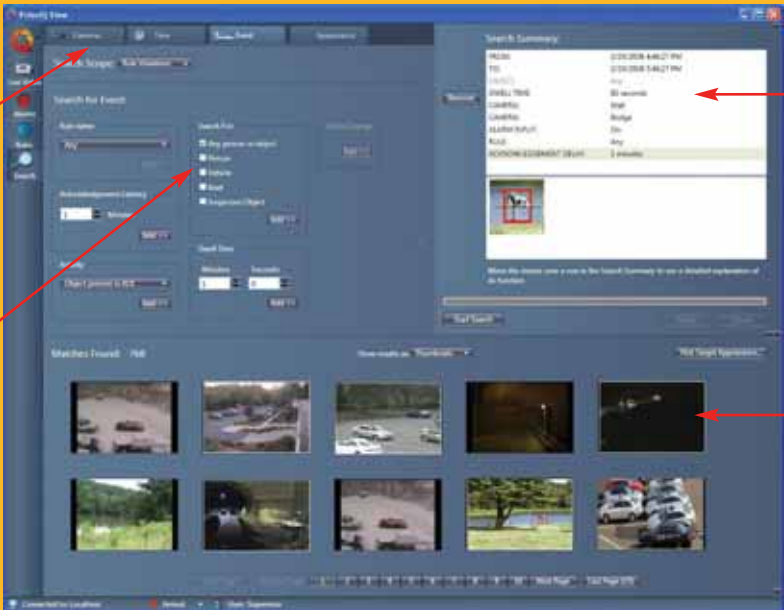
- **The only system with Click & Search™** — VideIQ's powerful search capability lets you search for the person or vehicle you want with just a click of the mouse. VideIQ automatically searches across terabytes of video and delivers results to you in seconds.
- **High reliability and low cost of ownership** — 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 10 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** — VideIQ products are designed to work with and extend your existing surveillance system. VideIQ encoders work with virtually any analog camera installed at your site — normal, day/night, infrared and thermal — all with no configuration changes. VideIQ 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 and encoders. The VideIQ View™ software finds results in seconds.



VideoIQ View Software (included)

Enables you to access the power of one iCVR or hundreds



The screenshot shows the VideoIQ View Software search interface. On the left, there are search filters for 'Search for Events' and 'Under Event Types'. The main area displays a grid of video clips retrieved from the search. On the right, a 'Search Summary' panel provides a summary of search criteria.

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

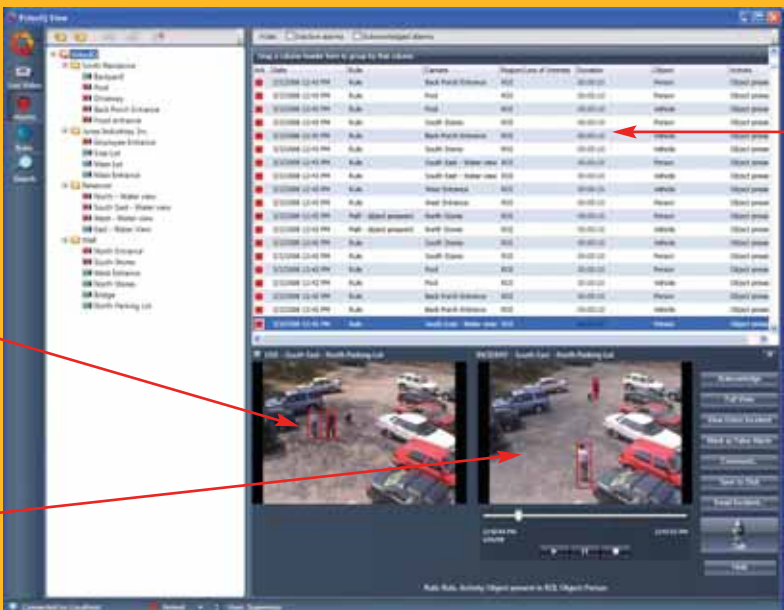
Under Event Types:
Search by Object
Type, Dwell Time,
Rule name, etc.

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



The screenshot shows the VideoIQ View Software alarm review screen. It features a table of alarm events with columns for 'Time', 'Camera', 'Description of event', 'Duration', 'Status', and 'Location'. Below the table, there is a live view of the camera that triggered the alarm and a video clip of the alarm event.

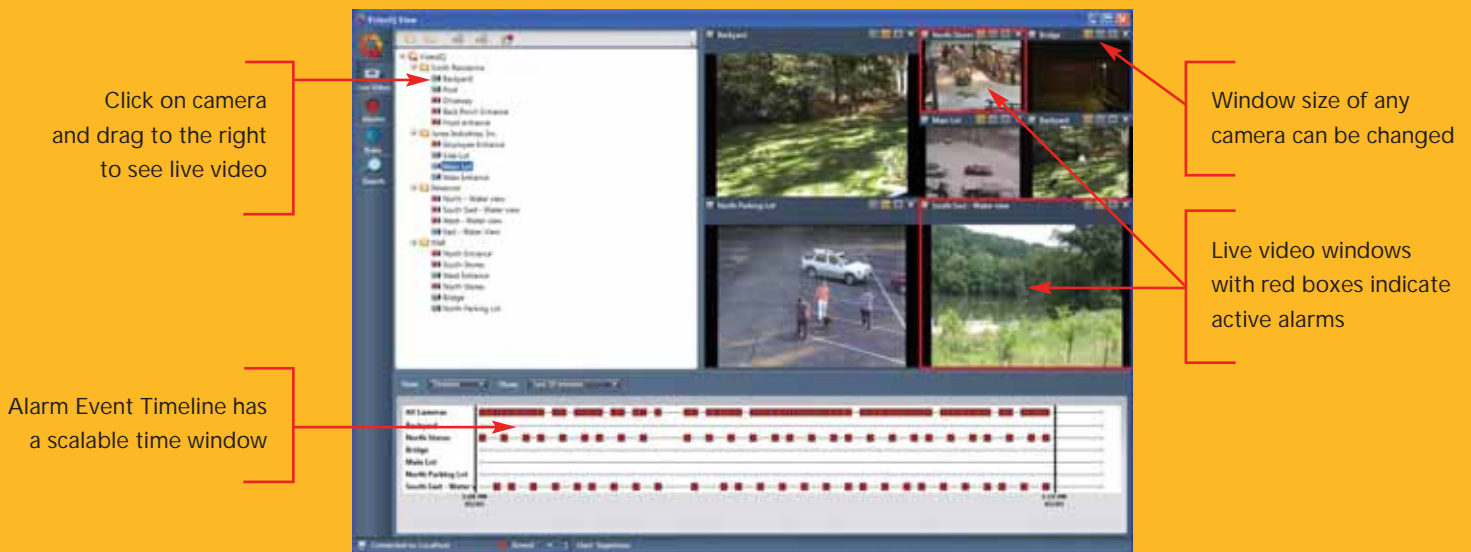
Alarm list can be sorted by
time, camera activity, etc.

Live view of camera
that went into alarm

Video clip of
alarm event

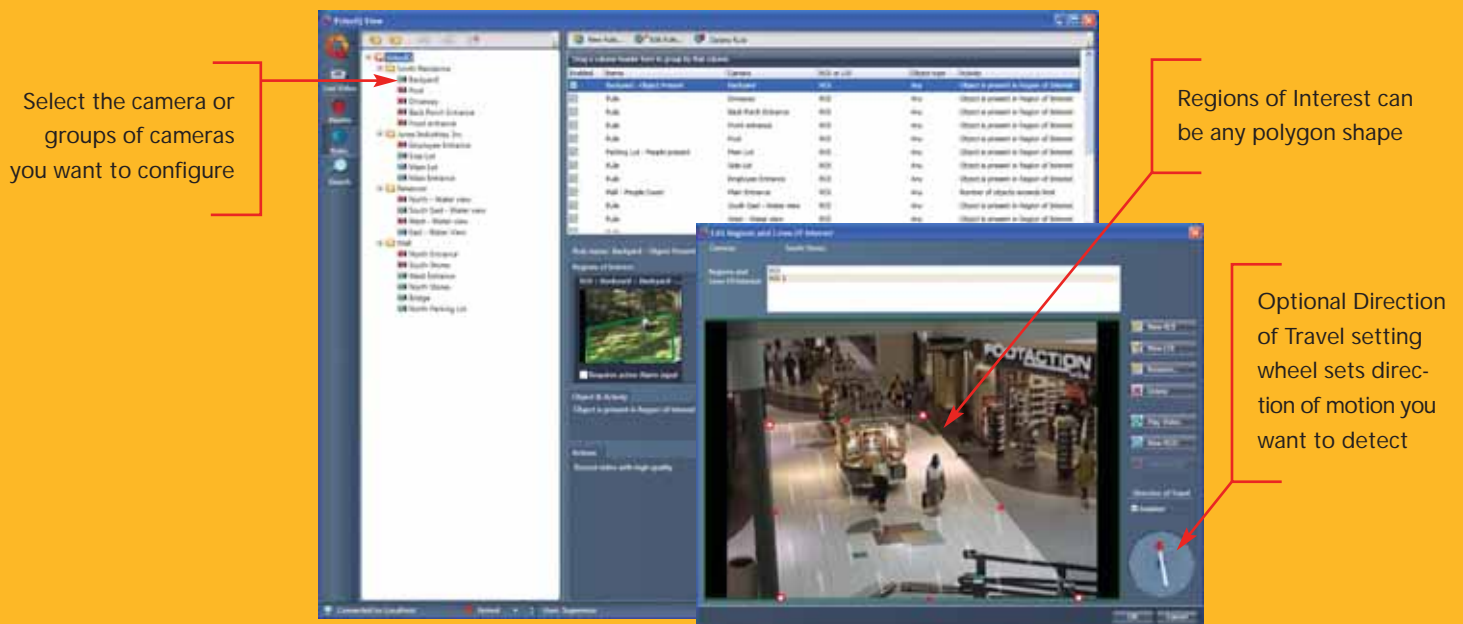
Event Driven Alarm Review Screen

- 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



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

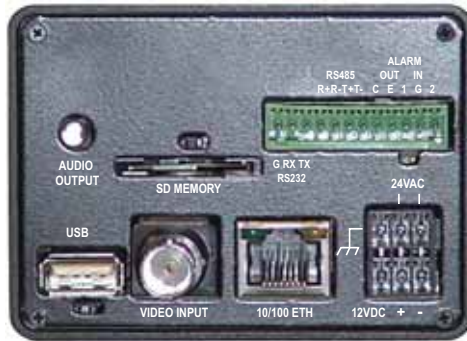


Group Management and Camera Configuration

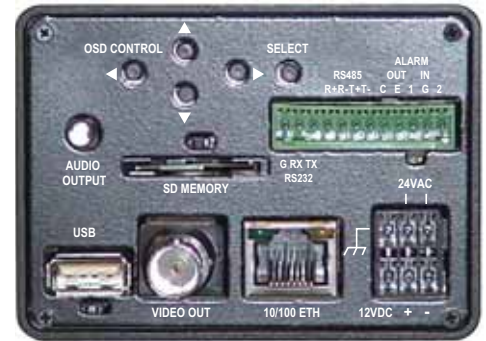
- Set up any camera either locally or via the network
- Full camera control and compression settings
- Complete setup of rules, regions of interest, alarm inputs and outputs
- Storage and archive control for all your cameras from one screen



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



Encoder Back Panel



Camera Back Panel

CT200 Series iCVR Cameras and Encoders — Specifications

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

Camera Models

- VIQ-CT200 — No hard drive
- VIQ-CT208 — 80 GB Hard Drive
- VIQ-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 0.5 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

Encoder Models

- VIQ-E1000 — One channel — No hard drive
- VIQ-E1008 — One channel — 80 GB Hard Drive
- VIQ-E1016 — One channel — 160 GB Hard Drive
- VIQ-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 or MPEG-4 compression (selectable)
- 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, RTSP, UDP, RTCP, 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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