



VideolQ™

Human Detection Surveillance Technology

Overview

VideolQ creates a new standard for intrusion detection applications. VideolQ improves the efficiency of a security system, minimizing false alarms, particularly in challenging outdoor environments. VideolQ uses GE's proprietary technology to go far beyond what other forms of intrusion detection can deliver—accurately detecting human activity 95 percent of the time.

Outstanding Features

VideolQ is a four-camera, PC-based system that can either stand alone or be integrated with a GE Interlogix DVMRe.* There are three core elements to the VideolQ technology: Foreground / Background Separation, Object Classification, and Tracking.

Foreground/Background Separation

VideolQ separates objects from a camera image into foreground and background elements. After the separation from the foreground elements, VideolQ ignores dynamic background motion such as moving tree branches and rippling water.

Object Classification

VideolQ continually builds a database of object characteristics so it can identify one object from another. VideolQ can then distinguish these objects across the four-camera system.

Tracking

VideolQ's robustness is unaffected by adverse conditions such as dynamic backgrounds, poor scene illumination, inclement weather, transient light conditions, and poor quality video sources.

VideolQ continues to learn after installation. New objects are analyzed and identified without operator intervention.



VIQ-4HD Series

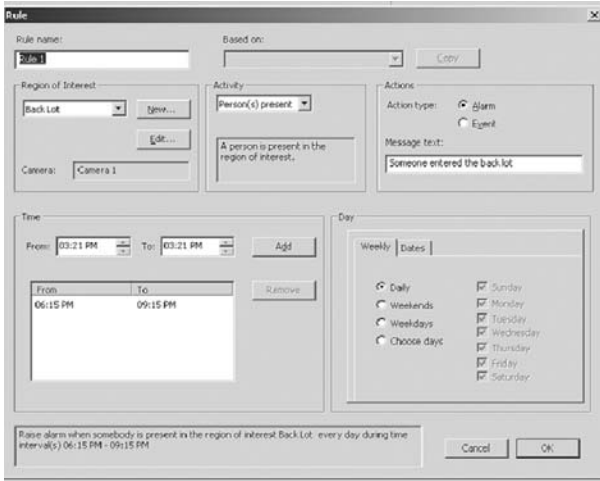
Standard Features

- Video-based human detection system that provides alarms and associated video
- Detects humans in dynamic outdoor environments
- Distinguishes between humans and other moving objects
- Ignores dynamic background motion and focuses on foreground objects of interest
- NTSC and PAL compatible
- Four-channel, PC-based system that integrates with existing DVMRe systems*

* VideolQ is compatible with GE Interlogix DVMRe Version 5.02.

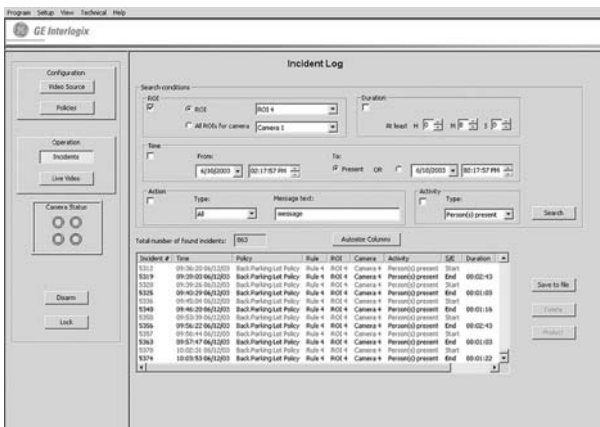
Region of Interest

A region of interest (ROI) is a rectangular area that is defined within the camera's view. Ten ROIs can be created in VideoIQ. Each ROI can be modified and dragged to any desired location within the camera view. When the ROI is activated, any human movement in the ROI will trigger an event or alarm.



Live Video

When VideoIQ is in operation, active ROIs are displayed on the Live Video screen on the VideoIQ monitor. Humans moving within an active ROI are identified with a red bounding box. All other moving objects are marked with yellow bounding boxes. You may also remove the bounding boxes or view only the red bounding boxes.



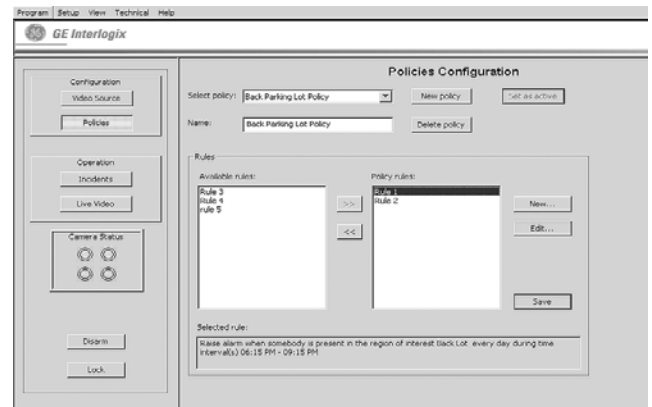
Policy

Policies control the functionality of VideoIQ. When the system is activated, it will follow the rules of the active policy. A policy can have an unlimited number of rules.

Incident Log

VideoIQ maintains an incident log that keeps track of alarms and events. The log has a search function that retrieves specific incidents. The search feature sorts by camera, ROI, duration of alarm/event, time of day, type of action, and the activity that activated the alarm.

When VideoIQ interfaces with a DVMRe, VideoIQ enables direct video playback of a related event or alarm.



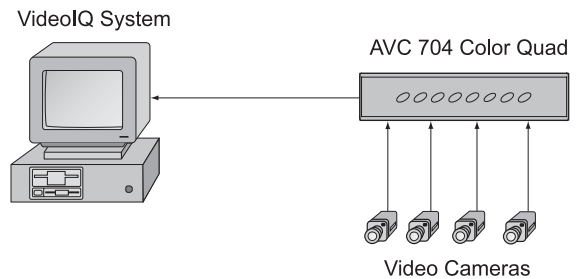
Rules

In order to establish intelligent decision-making, each ROI is assigned to one or more rules that establish the parameters for intrusion alarms and event messages. In addition to an assigned ROI, each rule includes time of day, days of the week, and the type of activity that triggers an action (such as a person entering the ROI).



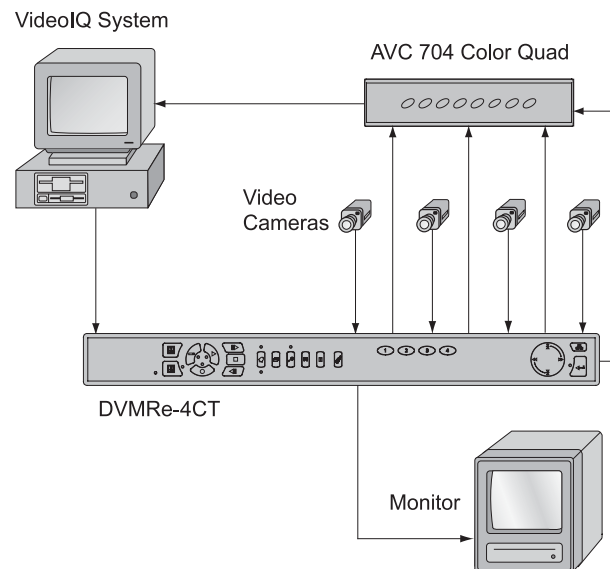
System Diagram: Stand-alone VIQ-4HD

VIQ-4HD is a stand-alone intrusion detection application that has a region of interest (ROI) in each of its four camera views. The ROI monitors any motion in the view area. Human intrusion in the ROI triggers a screen alarm message and an audible PC alarm.



System Diagram: VIQ-4HD with DVMRe-4CT

VIQ-4HD integrates with GE Interlogix DVMRe, offering the additional on-site features of alarm processing and digital recording of human intrusion activity. The DVMRe can quickly notify security personnel via alarm, pager, or e-mail when human intrusion occurs. Another important advantage of integrating VIQ-4HD with a DVMRe is that WaveReader software can be used at a remote site for live video monitoring of an alarm and for searching recorded video associated with an VIQ-4HD alarm.



Specifications

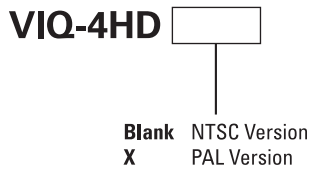
VIQ-4HD Series

- PC: Dell Optiplex GX 270T (including mouse and keyboard)
 - CPU: 2.8 GHz Pentium
 - RAM: 512 MB
 - Hard Disk Drive: 40 GB EIDE
 - Internal Drive: Floppy drive, CD-ROM
 - Ports: 2 DB9 male RS232 ports, VGA port
 - Capture Card: Matrox Frame Grabber Cronos Plus card
 - Capture Card Software: MIL Lite 7.5
- Monitor VGA: 15-inch flat panel monitor
- Operating System: Windows 2000 and VideIQ application
- AVC 704 (Color Quad)
 - Video Input Port: 4 + 1 (VCR)
 - Video Output Port: 1 switch and 1 quad output
 - Load Impedance: 75 ohms
 - Resolution: 720 (H) x 480 (V) NTSC
720 (H) x 576 (V) PAL
 - Power Source: 12 VDC, 1 A
 - Power Consumption: 6 W (max)
 - System Input Voltage: 108 - 132 VAC, 60 Hz NTSC
207-256 VAC, 50 Hz PAL
- Cables
 - RS-232: 10 ft DB9 (female) to DB9 (female) null modem

Compatible Digital Video Multiplexers and Recorders

DVMRe Multiplex/Recorder: Version 5.02 or higher

Ordering Information



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