

Overview

Video Content Analysis (VCA) is a powerful surveillance tool that increases efficiency and reduces costs by using sophisticated algorithms to automatically detect and report anomalies in real time. *Camera Maintenance Agent* and *Activity Detection* are two very useful analytics that come standard with Discovery and Evolution series encoders. These analytics are embedded in the encoders and are available on all video ports.

Embedded analytics come with easy-to-use configuration tools that provide a wide range of options. They are highly reliable and do not interfere with system operation. They operate without the need for additional hardware or software, and as a result, provide reliable image processing in exchange for very little system overhead.

Embedded analytics are ideal for recording-intensive applications where image loss or activity may go unnoticed. They are also well suited for applications with high camera-to-monitor ratios where switching to one camera's view leaves other cameras unmonitored.

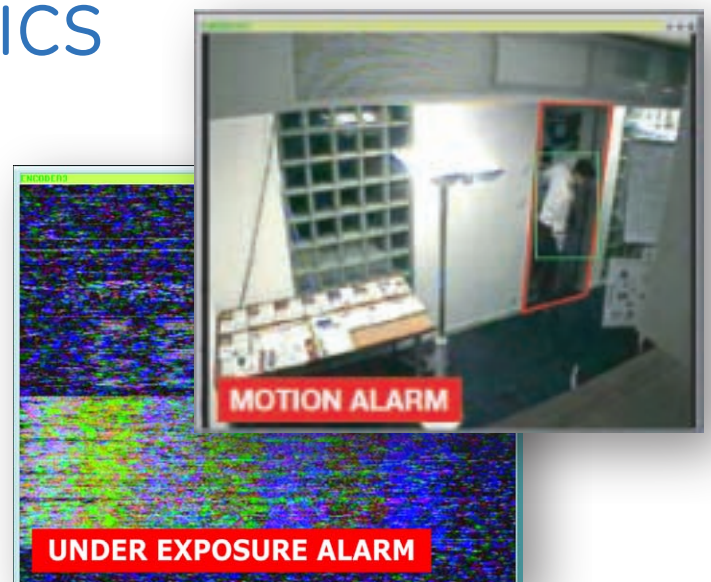
In addition to embedded analytics, GE's plug-in architecture provides third-party developers with the tools they need to integrate powerful video processing applications into the intelligent video security network.

Standard Features

- Reliable high-performance image processing
- Included with Discovery and Evolution series encoders
- Improves operator efficiency by highlighting important events
- Reduces system costs with no additional hardware required
- Real-time processing for immediate alarm notification
- Low CPU demand doesn't affect system performance
- Embedded analytics operate on all configured video ports
- Configuration tools included for easy customization

Embedded Analytics

- Camera Maintenance Agent
- Activity Detection



North America
T (561) 998-6100
T 888-GE-SECURITY
888-(437-3287)
F 561 998 6224
E rs-bctinfo@ge.com

Asia
T 852-2907-8108
F 852-2142-5063

Australia
T 61-3-9259-4700
F 61-3-9259-4799

Europe
T 32-2-725-11-20
F 32-2-721-86-13

Latin America
T 305-593-4301
F 305-593-4300

www.gesecurity.com

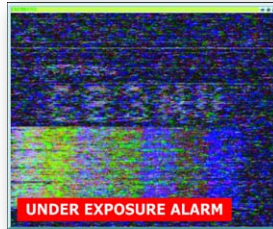
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Camera Maintenance Agent

The Camera Maintenance Agent (CMA) is a high performance algorithm-based video content analytic that automatically detects and reports unusable camera signals. It monitors images for such characteristics as over and under exposure, uniformly white or black images, blurred images, occluded or obstructed lenses, and displaced or improperly aimed cameras.

The CMA operates simultaneously on all configured video ports. Upon detection of image loss, it automatically triggers an alarm event through the system's Event Manager.

The CMA requires no configuration when used with its default settings. However, its detection threshold is adjustable for over and under exposure, as well as the allowable percentage of white or black pixels. It also features an adjustable timer that determines the interval between the start of image degradation and alarm initiation. This avoids alarms generated by temporary obstructions or transient signal loss.



Activity Detection

Activity Detection is a sophisticated video analytic that detects motion and reports activity within the field of view of configured cameras. Employing highly-effective image processing technology, this VCA is easily user-configurable to suit a wide range of applications.

Activity Detection focuses on user-defined Regions of Interest within the field of view, comparing real-time images to a stored reference image. Regions of Interest are designated with the graphical configuration tool. When activity within the Region of Interest is detected, the sensor triggers an alarm through the system's Event Manager.

An arbitrary number of Regions of Interest may be configured within a single field of view, allowing the sensor to distinguish normal activity from anomalies that require attention. Activity Detection automatically updates the reference image to compensate for gradual changes in luminosity, such as those caused by shifts in lighting angles or even passing clouds.

Activity Detection is reliable enough to render motion sensors and door contacts unnecessary in some situations, thus reducing security system costs. It also increases operator efficiency by assuming the role of watchdog on a virtually unlimited number of video ports. This reduces the quantity of attendants necessary to monitor large numbers of cameras for activity, and frees personnel to focus on anomalies that require immediate attention.

