MediaIntruder™

Automated Intelligent Video Surveillance Security Solution Providing Real Time Intrusion Detection
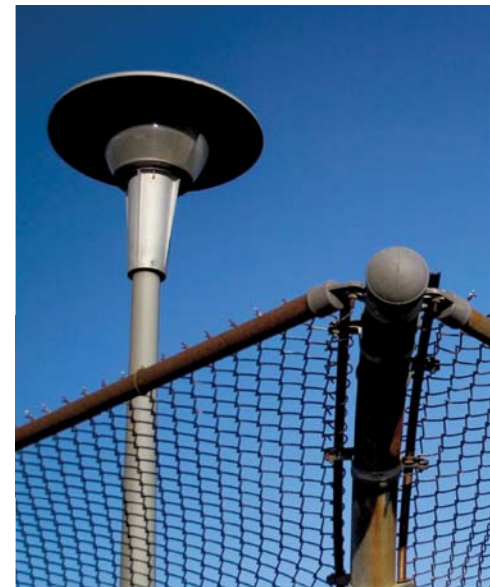
Citilog's MediaIntruder is a video-based Automated Intelligent Video Surveillance (IVS) solution specifically designed to enable real time intrusion detection for access-sensitive or secure areas. MediaIntruder delivers real-time indoor or outdoor intrusion identification that is far more effective than traditional monitoring approaches. This enables security operations centers to more rapidly respond to undesirable intrusions to minimize threats to humans and facilities and minimizes theft, vandalism and more. It uses existing cameras infrastructure for rapid deployment and lowered operations costs.

MediaIntruder provides security operators with an alarm (audible and visual) in real time as the intrusion occurs, far before the consequences of an incident can be noticed by traditional monitoring. It employs patented 4D (time and 3D analysis) full-frame video processing technology that is a key differentiator in Citilog's products. This technology enables the solution to reliably detect various types of intrusions, from a simple intrusion detection in a 3D zone, to forbidden trajectories detection (movement from one place to another, passing behind an object – such as a pillar or fence – etc.).

Based on more than 10 years of research and development, MediaIntruder processes images from color or black and white cameras, or with IR or thermal cameras, which allows large areas to be monitored by one camera. During an incident, the monitor displaying the video feed flashes the location of the incident in red, highlighting the specific image of the intrusion and also provides an audible alarm. This greatly reduces the risk of human-eyes missing the intrusion.

The software-based solution allows the implementation of large scale anti-intrusion systems, where one single operator is not able to monitor each video stream efficiently or effectively. Thresholds and zone parameters can be tailored, allowing security operations centers the flexibility of creating monitoring variables. System setup is performed with a few mouse clicks thanks to the friendly graphical user interface (GUI) and modification of monitoring areas can be easily performed.

In addition, MediaIntruder automatically adjusts to all weather conditions and all other environmental conditions to maximize video clarity at all times of the day or night. This includes automatically switching from a day mode operation using color image analysis to a night mode operation using black and white image analysis. Video is recorded and can be stored for post analysis, audit trails and safety and security performance measurements.
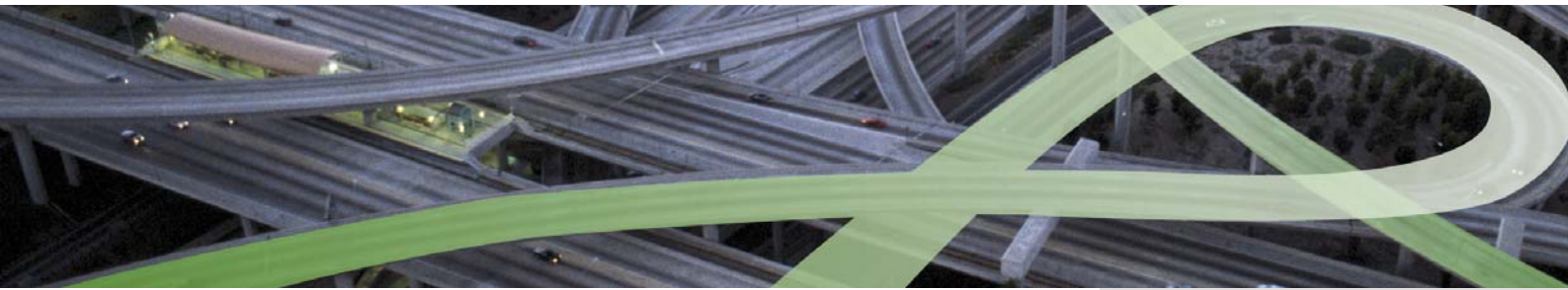
KEY CAPABILITIES

- Automate video surveillance to more effectively ensure safety and security for people and resources.
- Complete real time on-screen audible and visual alarms for intrusion detection to enable more rapid response times.
- Seamless integration into existing infrastructure of Closed Circuit Television (CCTV), cameras – digital or analog, color or black and white, IR or thermal.
- Employs patented 4D (time + 3D analysis) full-frame video processing for advanced monitoring capabilities.
- Ideal solution for tunnels, ports, airports, bridges, sensitive industries or border security monitoring.

KEY BENEFITS

- Cost-effectively and noticeably improve security for sensitive areas.
- Enable rapid response to undesired intrusions capable of threatening human or resource security.
- Improve security operations center efficiency, monitoring reach and capabilities.
- Meet the growing need for enhanced homeland security and minimize potential losses due to undesirable intrusions.

A supervisory and clip management interface provides a global view of all cameras under monitoring and when an intrusion occurs automatically pops up the related camera with the incident highlighted for rapid identification. Maintenance tools enable identification of malfunctioning cameras and remote maintenance. A Log Manager allows visualizing of messages generated by the system and the storing of actions performed by operators, administrator and external systems.

MediaIntruder's advanced capabilities can also discriminate the presence of individuals from vehicles or animals, or from local disturbances such as reflections, shadows or interfering movements like moving trees.

With a growing need for increased security against everything from vandalism to terrorism, MediaIntruder's advanced automated and real time capabilities provide an ideal path for security operators to more effectively enhance human safety and secure their resources.

DETECTION HIGHLIGHTS

- Detects entrance of an individual into pre-defined zones.
- Time-based detection triggered when an individual stays in a predefined zone for more than a specified threshold.
- Path-based detection tracks individuals following a pre-defined path through different zones, or when an individual enters a zone when not coming from another zone.
- Trajectory tracking enables monitoring even as individuals pass behind occluding objects (such as a pillar or fence).
- Discriminates the presence of individuals from vehicles or animals, or from local disturbances such as reflections, shadows or interfering movements such as moving trees.

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Technical Specifications

Equipment

- For cost efficiency and upgradability, Citilog exclusively uses standard "off-the-shelf" hardware for its equipment: analyzers and servers.
- Up to 8 video inputs per analyzer (depending on options and video mode).
- Usable with any camera and most video sources: analog (PAL, NTSC), digitally encoded (IP cameras, IP encoders), IR, color/BW.

Architecture

- Easy integration with any CCTV architecture.
- Equipment can be deployed centrally (TMC) and/or locally (cabinet).
- All Citilog products are compatible and can be easily integrated in the same GUI.
- Standard redundant architecture for enhanced system efficiency and availability.

Latest Hardware specifications available upon request.

Communications

- Standard Software Developer's Kit
- TCP/IP Client-Server
- ActiveX
- Open collectors
- Serial
- Wireless
- Fully accessible SQL database

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