

Automatic Incident Detection on PTZ cameras

Tunnels - Highways - Bridges - Toll Roads

VisioPaD+ is the latest in a long line of proven and tested video-based incident detection software developed by Citilog. It uses video signals from PTZ cameras to provide real time incident detection and traffic data collection. Image processing algorithms provide realtime video detection by extracting pertinent information from standard PTZ camera images. This enables enhanced security, safety and mobility for any traffic management center.

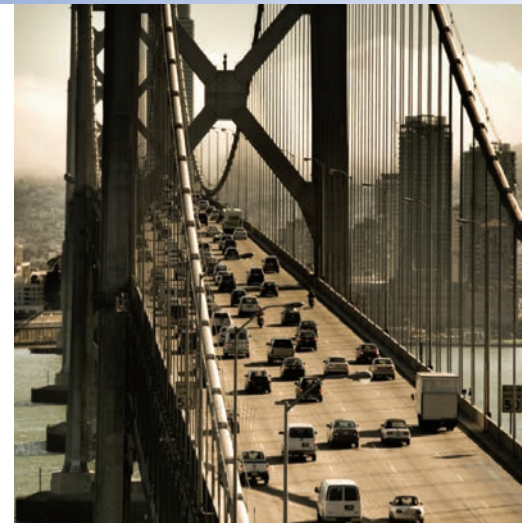
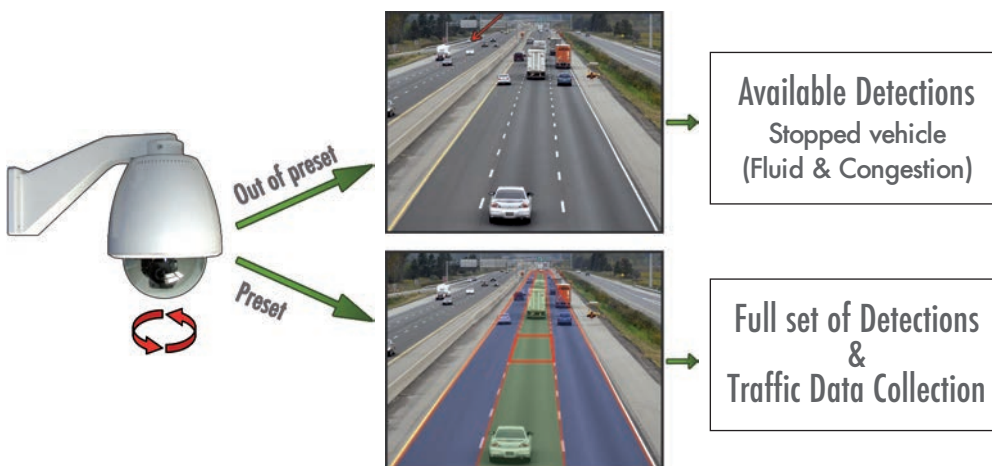
VisioPaD+ provides Automatic Incident Detection functionalities on new or existing PTZ camera installations. This maximizes the added value of your CCTV system with a seamless integration, while avoiding infrastructure modifications.

Upon incident detection, **VisioPaD+** provides operators with an alarm within seconds, even before the consequences of an incident can be noticed by traditional monitoring. This reduces the response time by the operators and helps to provide a timely overall incident management resolution.

VisioPaD+ combines the functions and advantages of **VisioPaD** (the industry's first self calibrating analytics software for AID) with the enhanced detection features found in Citilog's core AID systems.

VisioPaD+ monitors at all times the PTZ camera position status :

- On preset: **VisioPaD+** uses unique algorithms and performs the full range of incident detections as per the predefined detection zones.
- Out of preset: **VisioPaD+** uses the **VisioPaD** self calibrating algorithm to automatically perform stop and congestion detection on the current FOV of the PTZ camera.



Incidents Detected

- ✓ Stopped vehicles – fluid
- ✓ Stopped vehicles – congestion
- ✓ Slow vehicle
- ✓ Slowdown
- ✓ Wrong way vehicle
- ✓ Debris
- ✓ Pedestrian
- ✓ Loss of visibility

Traffic Data Collection

- ✓ Vehicle counting
- ✓ Vehicle classification
- ✓ Average speed
- ✓ Occupancy
- ✓ Levels of Services





VisioPaD+

IP CCTV READY

VisioPaD+ takes advantage of the latest developments in the IP CCTV industry and is compatible with any RTSP/ONVIF compliant IP camera or encoder.

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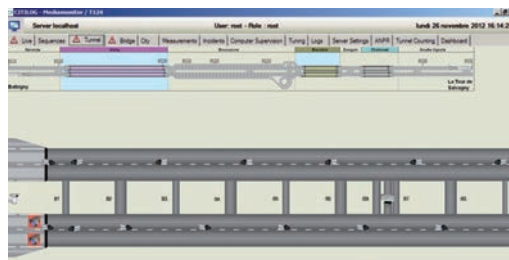
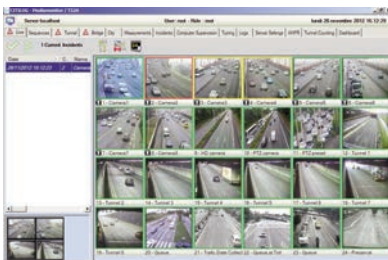
"OFF THE SHELF" HARDWARE

For cost efficiency and upgradability, VisioPaD+ software runs on "Commercial Off The Shelf" (COTS) hardware, based on Microsoft® OS (Windows 7 and Server 2008). Thus, hardware can be fully customized to meet the customers requirements (size, storage capacity, redundancy...). Up to 16 video inputs can be processed per processor.



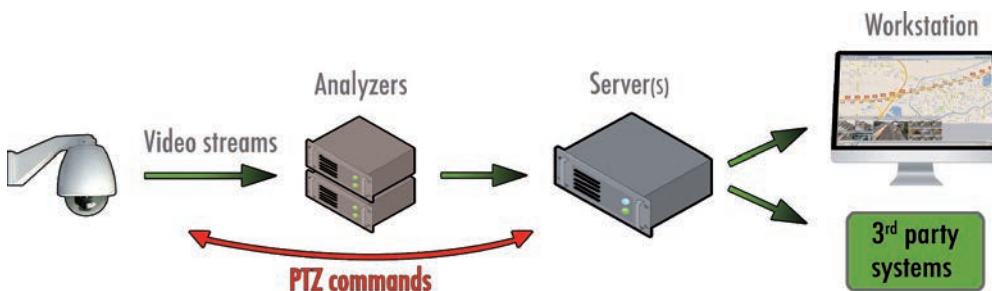
USER FRIENDLY INTERFACE

MediaMonitor, the Citilog GUI, has been designed by and for traffic operators, to provide supervision and administration functionalities through a user friendly interface. All the Citilog products can be integrated into the same GUI.



FLEXIBLE ARCHITECTURE

VisioPaD+, components are typically deployed centrally at the TMC, but can be deployed locally. Redundancy capabilities (analyzers, server) can eliminate unforeseen system downtime due to hardware failures and enhance the system's efficiency.



Highlights

- ✓ Digital recording of pre and post incident sequences
- ✓ Permanent recording capability
- ✓ Trajectory and tracking-based stopped vehicle detection
- ✓ Discriminates fluid traffic from congested traffic for enhanced stopped vehicle alarm notification and management
- ✓ Traffic data collection can be obtained and reported from the same video streams
- ✓ Automatic filters to handle weather and environmental conditions
- ✓ Compatible with any camera or video source (Analog, IP, IR, Thermal, Color, B&W)
- ✓ Flexible communication with 3rd party systems (SDK, TCP/IP Client-Server, ActiveX)
- ✓ MySQL database

Key benefits

- ✓ Improve traffic control centers efficiency
- ✓ Reduce incident detection times, thus decreasing response times



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