VISUAL DATA DETECTION, MONITORING & ANALYSIS TECHNOLOGY
Product brochure

THE PROBLEM

The visual surveillance systems currently available supply defense, HLS, security and law enforcement users with massive amounts of visual data.

The abundance of video surveillance sensors produces a real-time video input, as well as a cumulative video footage backlog that are far too massive to monitor, address and process with any degree of effectiveness.

Human operators are simply unable to handle the excessive number of displays they are forced to face and their inherently limited attention span renders them ineffective after a short time on duty.

Consequently, the massive visual information pouring in from the various surveillance sources is not utilized to maximum effect and current surveillance setups relying on human operators might easily miss or disregard important or even critical occurrences and processes, even though they are picked up and displayed by the various visual surveillance sensors.

In addition to the real-time alertness challenge, the task of processing and analyzing massive amounts of recorded data is time-consuming and costly.

The ultimate objectives of visual surveillance systems are:

- To alert the human operators to important occurrences in real time
- To improve the efficiency of the responding elements in dealing with evolving incidents
- To enable effective & beneficial analysis of recorded data so as to enhance the efficiency of future operations

Users of visual surveillance systems faced with excessive amounts of information will benefit from an automated system capable of analyzing the visual information being monitored and alerting the operators of any irregularities taking place within the areas of interest as they occur. Additionally, the same system should enable the users to effectively analyze massive amounts of recorded data so as to gain insights, draw lessons and conclusions and improve the efficiency of their future operations

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THE SOLUTION

ACS presents VDDMAT – Visual Data Detection, Monitoring & Analysis Technology.

VDDMAT addresses both aspects of the visual surveillance activity – the real-time alertness challenge and the challenge of processing and analyzing the recorded data.

VDDMAT superimposes analytical overlays over the video input and employs various algorithms to analyze this input. Finally, it presents the results of multiple analytical processes on a single display screen as integrated visual surveillance input for the users.

By adding an automated video & acoustic analysis capability to the visual surveillance system, VDDMAT minimizes the need for continuous monitoring of multiple visual displays by numerous human operators and reduces the over-all number of displays being monitored as well as the number of displays monitored by each operator.

VDDMAT features extensive video input recording & storage capabilities that include analytical overlays, thereby enabling intelligent After-Action Review (AAR) & analysis.

VDDMAT offers a cutting-edge video analytics solution that significantly improves the efficiency of visual surveillance in such applications as counterterrorism, border security, security for sensitive installations, transportation terminals, shopping malls & commercial centers, cultural centers & crowded public areas.

KEY FEATURES & MAJOR ADVANTAGES

Cutting-edge video & acoustic analysis technology addresses the real-time alertness challenge and the processing of recorded data

- State- Automated analysis process eliminates the need for continuous monitoring of multiple displays by numerous human operators
- Cutting-edge analytics of various input sources (visual, acoustic, etc.) help identify anomalies & irregularities
- The number of displays being monitored is significantly reduced
- Recording & storage of video input for After-Action Review (AAR) & analysis
- Typical applications:
    - Counterterrorism
    - Urban security
    - Border security
    - Sensitive installations
    - Transportation terminals
    - Shopping malls & commercial centers
    - Cultural centers & crowded public areas