

## **Full Speed Ahead for Full Motion Video**

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### **AUTOMATED TOOLS (for Video Content Extraction)**

FMV (*Full Motion Video*) intelligence analysts also have been using automated tools from IntuVision—Panoptes (“the all seeing” in Latin) and VideoAnalyst. Deployed at a classified DoD site, Panoptes watches video streams and auto-detects events, such as perimeter intrusions or trip wire violations as they occur in real-time, at which point the system sends out alarms.

VideoAnalyst is a forensic tool that searches through archives of video looking for pre-designated events such as scene changes. The product automatically ignores massive amounts of irrelevant data, while focusing on segments of interest.

“One of the newest features in full motion video analysis software that users like is the ability to query a detected event to reveal patterns within a parameter, such as intrusions,” said Sadiye Guler, chief executive officer of IntuVision.” The time element is also important, such as that of a vehicle waiting repeatedly at certain times.

“Up until now, analysts did not have the automated tools to search many hours of video sources quickly the way they had been able to search text and documents. Now you can search video for faces, for example,” she added.

Guler noted that the software has been enriched in the past year with the merging of multiple functions. And now, increasingly, FMV analysis software will incorporate computer vision technologies—the science and technology of machines that see—used for industrial robots, autonomous vehicles, event detection and visual surveillance.

Yet to achieve the ultimate FMV analysis improvement, which translates into saving lives, the multiple disparate systems of today will need to merge into the standards-based architecture of tomorrow.

“When the different systems and sensors speak the same language and present their findings in a unified manner, it will bring a whole new level of usability to the picture. There’s unlimited potential to prevent disasters from occurring,” she said.