Video surveillance is an integral part of modern security systems. It can provide essential identification after an incident has occurred. With many video surveillance systems operating continuously the task of tracking back through recording to find the critical piece of footage can be both time consuming and costly.

At Thales we have developed a unique algorithm to detect changes in motion and activity for use with surveillance systems. This new system enables you to jump to stages of the footage where something changes, reducing the research time by up to 95%.

Using innovation to enhance security and reduce surveillance operating costs
National Security & Resilience

Our Robust Motion Detection (RMD) capability has been developed to provide users with a quick and easy system for reviewing surveillance footage, without compromising computer functionality.

The system has a very low computational cost when in use, while it is strongly robust to illumination changes, repetitive motion and low quality light and video streams. The system uses so little power it can operate on a mobile phone without any problems.

The system has two primary operational functions:

1. Process a single camera feed for sustained periods on an inexpensive battery powered embedded COTS device, e.g. a Smart Phone
2. Offline processing of multiple video feeds on a single PC

Applications

- Video surveillance
- Force protection
- Area protection
- Domotic protection and monitoring
- Video forensics
- Offline processing of large video databases

User Benefits

- Reduced man power and analysis time
- Plug and play operations
- Setup and maintenance free
- More robust and lower cost than existing methods
- Scalable output: Scene states to trigger alerts

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