Detection of Improvised Explosive Devices

The on-board change detection system helps to detect suspicious objects or improvised explosive devices (IEDs). By using an intuitive computer display, the system highlights changes along a previously cleared itinerary to warn the operator of the presence of suspicious objects.

The ISL change detection system
- helps to secure frequently used itineraries,
- highlights nearly invisible changes in the operational landscape,
- is robust to changing light conditions and to varying trajectories,
- operates in jammed areas or zones not covered by GPS,
- has been extensively tested under operational conditions.

Technical features
- Use of augmented reality to compare real-time and data-based images
- GPS geo-referenced imaging and recording
- Stand-off and passive operation mode
- Low-cost equipment

Applications
- Clearing of potentially trapped itineraries and protection of military convoys
- Police operations for homeland security
- Security inspection of airport tarmacs
- Clearing of railways itineraries for high-speed trains