

## i-LIDS scenarios

i-LIDS consists of five scenarios

### Multiple-Camera Tracking



VA systems must be able to track a person across the entire camera set. Systems may be evaluated for one of two roles:

- Tracking across three overlapping cameras,
- Tracking across five overlapping and non-overlapping cameras.

### Abandoned Baggage Detection



VA systems must detect abandoned baggage left by individuals on a station concourse.

### Parked Vehicle Detection



VA systems must detect vehicles parking in defined zones and persons leaving those vehicles.

### Sterile Zone Monitoring



VA systems must detect the presence of persons in a restricted area or 'sterile zone'.

### Doorway Surveillance



VA systems must detect anybody entering or exiting monitored doorways.

### For more information

The i-LIDS team can be contacted at:  
i-LIDS team  
HOSDB  
Langhurst House  
Langhurstwood Road  
Horsham  
West Sussex. RH12 4WX.

**email** [i-LIDS@homeoffice.gsi.gov.uk](mailto:i-LIDS@homeoffice.gsi.gov.uk)

**voicemail** (+44) (0)1403 213823

**fax** (+44) (0)1403 213827  
(marked 'FAO: i-LIDS team')

For more information on how to apply for datasets and the cost, the evaluation process and forthcoming trials deadlines visit our website  
**<http://science.homeoffice.gov.uk/hosdb>**

© Crown copyright

**CPNI**

Centre for the Protection  
of National Infrastructure



Home Office

Scientific  
Development Branch

## Imagery Library for Intelligent Detection Systems



© Crown copyright

# The i-LIDS benchmark

Video Analytic (VA) systems provide automated real-time video analysis and event detection. The Centre for the Protection of National Infrastructure (CPNI) and the Home Office Scientific Development Branch (HOSDB) are committed to promoting the development of effective VA systems to help in policing and counter terrorism operations.

The HOSDB, in partnership with the CPNI, has developed i-LIDS.

## **i-LIDS - the new government benchmark for VA Systems**

i-LIDS comprises a library of CCTV video footage based around five 'scenarios' central to government requirements. The footage accurately represents real operating conditions and potential threats.

VA systems are required to detect defined 'alarm events' within a scene, for example the presence of a parked vehicle or a bag abandoned by its owner.

### **Available datasets**

Datasets contain video footage from each scenario. We are inviting VA systems manufacturers and machine vision academics to buy training and test datasets to help them develop their systems.

### **Format and system requirements**

Each of the event detection scenarios are provided on a 500GB hard drive. The multiple-camera tracking datasets will be provided on a 1TB hard drive. Both of the above are USB2 / Firewire external hard drives.

The video is rendered in Quicktime MJPEG format. The free Quicktime viewer is required to view the video.

## **Price**

**HOSDB receive no revenue from the sales of i-LIDS.** The charge covers the hardware, duplication and distribution costs of reproducing the datasets on a cost recovery basis. Current prices, and an application form and user licence are on our website.

## **System evaluation trials**

HOSDB will conduct regular trials of VA systems on each i-LIDS scenario. Systems demonstrating a sufficient level of performance will be listed in a catalogue of approved products distributed to Critical National Infrastructure security managers.

Systems will be assessed with our own private evaluation datasets using a performance metric. Systems being evaluated for an event detection scenario may be evaluated for one of two roles:

- Operational Alert - where the system provides live monitoring of a situation,
- Event Recording - where system acts as a trigger for automated recording of suspicious events to be reviewed later.

Details of how to apply for evaluation are on our website.