# IPSOTEK
## Intelligent CCTV IPS16

IPS16 is intended for small to medium installations.

IPSOTEK's technology is connected to a sophisticated image analysis programme called Cromatica, in which CCTV cameras detect unusual activity by recognising behavioural patterns pre-programmed into the computer's memory.

IPS 16 represents a massive step forward in CCTV survei l lance technology, integrating advanced automatic surveillance features with high quality digital recording and camera selection functions.

IPS16 uses computer vision techniques to capture and examine patterns of behavior. These patterns are compared to a library of pre-programmed or user defined events.
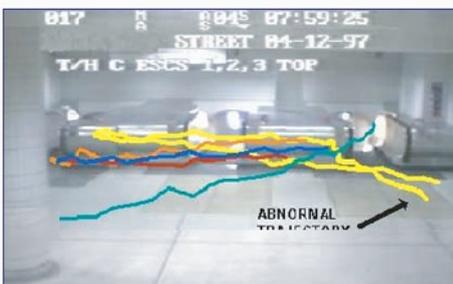  When a potentially suspicious event occurs the system operator is immediately informed.
  IPSX monitors all cameras all of the time, providing a level of surveillance far superior and more cost effective than that provided by human operators alone.

## Behavioural Analysis In Action

The IPSX system monitoring behavior in a transport setting at the top of busy escalators.

The system is monitoring a regular flow of traffic off the escalators, the system creates an alert when there is an unusual direction of flow to the right of the screen. Once alerted the operator can then assess the situation and take necessary action.

## IPSOTEK's systems focus on:

• Intrusion: When something enters an area of view that has been pre-defined as 'off-limits'. Useful in alerting operators of a person/item on a track/platform/unauthorised area.

• Congestion: When areas being monitored have a high density of people in a small area. The system detects abnormal pedestrian flows (i.e. overcrowding on the approach to an escalator, entrance or exit)

• Abandoned Packages: The system can alert operators to any suspect packages allowing for immediate action to be taken to investigate.

• Loitering: The system can detect persons who spend a long time in one view (i.e. a suicidal person or beggar on a train platform either standing too close to the edge or pacing the platform for an unusual length of time.

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- The IPSX 16 has a wide variety of user interface types including a 3 dimensional map, which shows detection events from all sensor types. When an event is detected, the area concerned is highlighted on the map. Using a touch screen, views from all cameras cover ing that area are immediatel y displayed, allowing rapid threat assessment.

- The IPSOTEK system incorporates ful l digi tal recording of all camera inputs, as well as providing for an audit trial function, making the recordings admissible as evidence in any criminal prosecutions.

- Automatic surveillance and analysis is continuous ensuring that no incident goes unnoticed. A log of events is maintained, allowing immediate replay of any event detected and recorded by the system. This can assist in post-incident analysis, and allows the rapid identification of offenders.

- IPSOTEK's technology within the IPSX is a result of over ten years research and development and is the most advanced system of its type currently available. The functionality and user interface have been designed with the assistance of real CCTV operators, and proven in a variety of operational situations across Europe.

- The IPSX is server based, operating with industry standard local and wide area network protocols, as well as using Corba and XML. This combination makes the Ipsotek system easy to integrate with sound detectors, other biometric sensors and lone worker alarms etc.

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