ISS
INTELLIGENT VIDEO. DEFINED.

SecurOS™ Tracking Kit

Situational Video Analytics

The Tracking Kit, plugin of the **SecurOS™** Computer Vision subsystem offers the SecurOS™ Situational Video Analytics Suite. This Suite provides a set of advanced video analytics detectors designed to increase situational awareness of **SecurOS** operators.
Tracking Kit detectors will streamline operator efficiencies by not requiring constant monitoring of control areas; improving operator event processing; and by monitoring/controlling several locations, without impacting the security staff.

Technology Overview

Hardware-Agnostic System
No specialized cameras or other hardware is required. System is hardware-agnostic.

Cutting Edge Video Analytics
Algorithms Uses advanced algorithms for object tracking, foreground extraction, sudden lighting changes and much more.

Unlimited Number of Detectors
One system can run an unlimited amount of detectors, as well as being able to enable multiple detectors per camera.

Programmable Logic Event Processing
Provides ability to automate a large variety of routine operations, performed consistently in high volume - 24x7.

Integrated with SecurOS™ VMS
Seamlessly works alongside the SecurOS™ video management software as well as other SecurOS Analytics modules.

Minimized False Positives or Missed Events
Maintained by advanced settings for each control zone and operating conditions.

SECUROS PREMIUM
SECUROS ENTERPRISE

Compatible with ISS SecurOS™ Premium and Enterprise

Key Features

Object Left Behind Detector
Designed to detect objects/packages left behind.

Loitering Detector
Designed to detect people moving within a controlled area during a long period of time.

Crowd Detector
Designed to detect large groups of people in open areas and premises providing an early warning of public unrest and disorder.

Intrusion Detector
Designed to detect objects that intersect the perimeter of a restricted area.

Object Counter
Designed to detect objects that intersect a control line (e.g., people, vehicles). In/Out count provided.

Running Detector
Designed to detect people moving at a speed exceeding a predefined value.

Object Classifier
Will classify the detected/tracked object as Person/Vehicle using advanced algorithms. Additionally, results can be double-checked by object size and aspect ratio.

Quick Archive Access
By clicking on any of the detector events from the SecurOS™ Event Viewer, user can immediately see the corresponding video in the SecurOS Media Client.

Object Highlighting
Objects of interest will be highlighted in the video archive.

Advanced Event Handling
Based on Tracking Kit detector events, SecurOS can create visual notifications on the SecurOS™ Event Viewer, Alarm Monitor, 2D/3D Maps, Video Wall; as well as send alerts to Emergency Service Centers (i.e. 911).

Dwell Time Detector
Designed to count objects (people, vehicles) remaining in an area for the certain time.

Line Crossing Detector
Designed to detect objects (people, vehicles) crossing a line in any direction.

Wrong Direction Detector
Designed to detect objects (people, vehicles) moving in a wrong direction.

Applications

- **Object Left Behind**
Trade and service enterprises, metros, airports, business centers, checkpoints.
- **Loitering**
Parking, ATM, pedestrian zones.
- **Crowd Detection**
Retail, Sports/Cultural sites, pedestrian zones, adjacent territory to administrative/gov't buildings.
- **Intrusion Detection** Cultural facilities (e.g., monuments), transportation infrastructre (e.g., bridges).
- **Object Counter** Customs & passport control, cultural facilities (e.g., art gallery), secure areas of buildings/infrastructre, location requiring occupancy control.
- **Running Detection**
Metros, airports, any location where running can be construed as suspicious behavior.
- **Dwell Time**
Vehicle toll lanes, bridges, tunnels. Line Crossing Detection - any secure area where access is strictly monitored.
- **Wrong Direction Detection**
driving violations, border crossing, customs.

Specifications

ISS Platform Support

Supported Operating Systems	Windows 7, 10, Server 2012 R2, Server 2016 (32/64 bit)
SecurOS™ VMS version support	SecurOS™ Premium SecurOS™ Enterprise

Camera Technical Data

Video Codec	H.265, H.264, MPEG4, MJPEG, MxPEG
Supported camera types	Fixed (box/dome), 360o , PTZ (*fixed cameras are recommended)
Supported camera views	Angle, Overhead, Horizontal (*some detectors will work better on specific views)
Minimal required resolution	320x240 (maximum resolution not limited)
Minimal required FPS	15 frames per second

Camera Technical Data

Minimal linear size of detected/tracked object	5% of frame size
Object classifiers	Person, Vehicle
System output	Camera Name/ID Detector Name (Object Left Behind, Loitering, Crowd Detection, Counting, Intrusion, Running,Dwell Time, Line Crossing, Wrong Direction) Event Name Event Description Timestamp of Event Snapshot of entire frame (outline object)

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