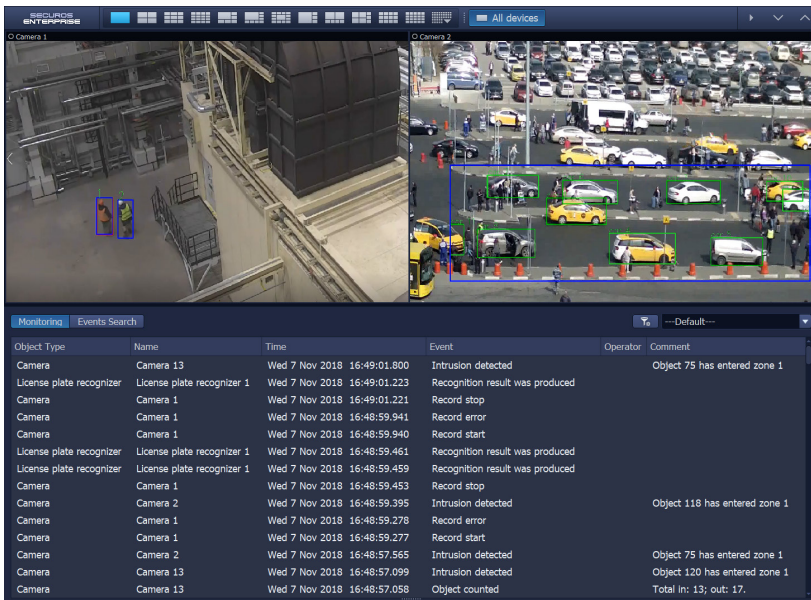




# SECUROS TRACKING KIT

## Situational Awareness 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.

The SecurOS Tracking Kit detectors will streamline operator efficiencies by not requiring constant monitoring of control areas; by improving operator event processing; and by monitoring / controlling several locations, without impact of the security staff.



[www.issivs.com](http://www.issivs.com)

### Technology Overview

#### Hardware-Agnostic System

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

#### Programmable Logic Event Processing

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

#### Cutting Edge Video Analytics Algorithms

Uses advanced Neural Network algorithms for object tracking, foreground extraction, sudden lighting changes and much more.

#### Minimized False Positives or Missed Events

Maintained by advanced settings for each control zone and operating conditions.

#### Unlimited Number of Detectors

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

#### Forensic Search

Search interface available for quickly finding events based on object type, object color, time interval, camera, region of interest, as well as other filters.

#### Integrated with SecurOS™ VMS

Seamlessly works alongside the SecurOS™ video management platform as well as other SecurOS Analytics modules.

### 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 infrastructure (e.g., bridges).
- **Object Counter** - Customs & passport control, cultural facilities (e.g., art gallery), secure areas of buildings/infrastructure, location requiring occupancy control.
- **Running Detection** - Metros, airports, any location where running can be construed as suspicious behavior.



### Key Features

#### Object Left Behind / Removed Detector

Designed to detect objects left behind or removed.

#### 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.

#### Dwell Time Detector

Designed to detect how long an object has been in the scene.

#### Wrong Direction Detector

Designed to detect if an object is moving in the wrong direction.

#### Line Crossing Detector

Designed to detect if an object crosses a line in any direction.

#### Object Classifier

Will classify the detected/tracked object as Person/Vehicle/Animal using advanced Neural Network 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 detector events, SecurOS can create visual notifications on the *SecurOS™ User Interface*, as well as send alerts to Emergency Service Centers (i.e. 911).

### Specifications

ISS Platform Support	
<b>Supported Operating Systems</b>	Windows 10 Pro Windows Server 2016 / 2019
<b>SecurOS™ VMS Version Support</b>	SecurOS™ Premium SecurOS™ Enterprise
Supported Video Formats	
<b>Codec</b>	MJPEG, MPEG4, H.264, H.265, MxPEG
Camera Technical Data	
<b>Supported Camera Types</b>	Fixed (box/dome), 360° PTZ (*FIXED CAMERAS ARE RECOMMENDED)
<b>Supported Camera Views</b>	Angle, Overhead, Horizontal (*some detectors will work better on specific views)
<b>Minimal Required Resolution</b>	320x240 (maximum resolution not limited)
<b>Minimal Required FPS</b>	15 frames per second
Additional Technical Data	
<b>Minimal Linear Size of Detected/Tracked Object</b>	5% of frame size
<b>Object Classifiers</b>	Person, Vehicle, Animal
<b>System Output</b>	Camera Name Camera ID Detector Name Event Name Event Description Timestamp of Event Snapshot of entire frame (outline object)
Ordering Information	
<b>SecurOS™ Tracking Kit Part Numbers</b>	<b>IF-TK-ID:</b> SecurOS™ Tracking Kit - Intrusion Detection (per detector) <b>IF-TK-SD:</b> SecurOS™ Tracking Kit - Smoke Detection (per detector) <b>IF-TK-OPEN:</b> SecurOS™ Tracking Kit - Open License. One Detector from: Object Counting, Loitering, Dwell Time, Line Crossing, Wrong Direction, Crowd Detection, Object Left Behind, Person Running <b>IF-TK-BUNDLE3:</b> SecurOS™ Tracking Kit - Bundle of any 3 Detectors (per 1 camera) <b>IF-TK-BUNDLE5:</b> SecurOS™ Tracking Kit - Bundle of any 5 Detectors (per 1 camera) <b>IF-TK-CLS:</b> SecurOS™ Tracking Kit - Person / Vehicle / Animal Classification (per detector)