



INTELLIGENT VIDEO. DEFINED.®

ISS Safety

A video analytics suite designed to help businesses keep employees and visitors out of harm's way.

While the primary goal of the vast majority of video surveillance deployments is to help organizations mitigate against security threats to their physical premises – be it providing a continuous live stream that can be monitored by operators or archiving footage for evidentiary purposes – the advent of modern, high-trust video analytics has opened the door to a wide variety of new applications that are vastly expanding the value proposition of cameras. Chief among these new use cases is the need among end users across different industries to ensure compliance with various safety regulations set forth by federal, state and local governments.

Not only does maintaining a safe work environment

help organizations avoid costly fines, but it also demonstrates to employees, customers and guests that safety is a first and foremost consideration for the business. Historically, end users have had to rely on managers or even frontline workers themselves to enforce these safety paradigms, however; the advent of artificial intelligence (AI)-powered video analytics means those that flout the rules will now be caught automatically.

The ISS Safety package of offerings is designed to help businesses across different verticals streamline the detection of various safety violations and provide supervisors with corresponding alerts.

SecurOS® Inspector

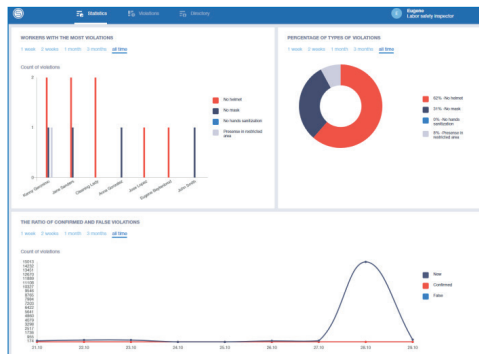


One Dashboard for Analytics and Reports

Regardless of what specific types of video analytics are needed for your application, SecurOS® Inspector can tie these modules together in a single, easy-to-use dashboard. Highly customizable, SecurOS® Inspector ingests data from multiple ISS Safety detectors (hand sanitizing, face mask, and helmet/hardhat and safety vest) simultaneously and then provides that information in a user-friendly report for administrative staff and other senior-level personnel.

While it provides reliable and easily retrievable data about violations on a site-by-site or facility-by-facility basis, SecurOS® Inspector also offers the capability to “tie” violations to individual offenders manually or automatically. In addition to the safety analytics, the software can also leverage the intrusion detection capability of the SecurOS® Tracking Kit to provide reports to the organization about workers or visitors who enter prohibited areas within a building.

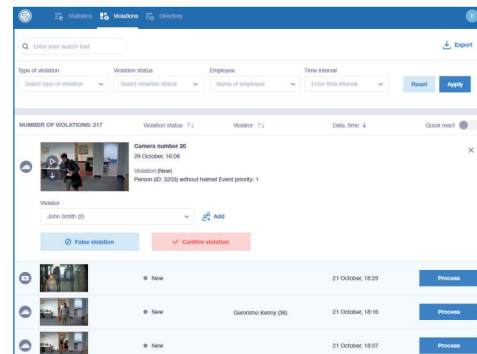
Within the dashboard itself, operators have access to a variety of information recorded in the event database regarding violations,



including violation type, violation status (new, confirmed, rejected, etc.), date and time of incident, place of violation (or camera ID), full name of offender, screenshot of violation with the offender highlighted, and links to view and download a video clip of the incident.

Powered by Patented AI Technology

Underpinning the ISS Safety suite of analytics is the SecurOS® Behavior Analyzer, a unique solution that leverages neural network algorithms to automatically detect nefarious or potentially dangerous human actions. It was specifically designed to monitor employee behavior and their compliance with a company's code of conduct as



well as various industry regulations. Among the safety and compliance detectors offered through Behavior Analyzer are:

- Running, falling, fighting, sitting
- Ladder and handrail holding
- Unauthorized entry into restricted areas
- Medical attention needed
- Talking on the phone
- Smoking in restricted areas
- Climbing to forbidden high-rise objects
- And more

* Deployment of some analytic detectors are contingent upon the purchase of ISS Professional Services to ensure proper setup and high accuracy rates.

ISS Safety Featured Analytics Modules

SecurOS® Helmet and Safety Vest Detection



According to the U.S. Occupational Safety and Health Administration (OSHA), about 1,000 workers die every year due to head injuries sustained on the job, and of these deaths, more than 80% are suffered by those not wearing a helmet.¹

The SecurOS® Helmet and Safety Vest Detection module was developed for those in industries, such as construction, mining, and

manufacturing, to be able to autonomously monitor and identify individuals who are not wearing required head protection. Leveraging ISS' patented neural network algorithms, the high-accuracy module significantly increases detection efficiency by minimizing missed events and false positives.

It can also be used in conjunction with other ISS solutions, such as the SecurOS® FaceX facial recognition offering, to identify rule breakers and/or integrate with the end user's access control system.

SecurOS® Hand Sanitizing Detection



While it is common to see signs in restaurants, grocery stores and other places that state "all employees must wash hands before returning to work," many people do not realize that this is not just a good sanitary business practice, but the law in some cases. The Food Safety Modernization Act, which went into effect in 2011, specifically stipulates that workers who handle produce or food-contact surfaces, as well as their supervisors and visitors, must use hygienic handwashing and drying practices.²

In industries where proper hygiene is necessary to ensure the continued safe operation of a facility or the delivery of a product, such as food preparation

or healthcare, video analytics are also making a demonstrable difference in the enforcement of health and safety policies.

The SecurOS® Hand Sanitization Detection module can be quickly and easily configured to operate in these and other environments to aid businesses in their efforts to maintain cleanliness standards. The module analyzes human behaviors/motions associated with handwashing in areas where the practice is required for workers prior to entering or returning to a jobsite and it can collect evidence (screenshots, video, etc.) automatically to report incidents of non-compliance to the proper authorities. It can even be integrated with access control systems to deny entry to individuals when a violation is detected.

SecurOS® Face Mask Detection



While COVID-19 thrust the issue of mask wearing into the public spotlight, for some industries the wearing of personal protective equipment (PPE) was an existing requirement. People that work in healthcare and food preparation environments, for example, were already well acquainted with policies that called for the wearing of face masks prior to the pandemic. However, the

advent of video analytics has simplified enforcement of these policies. The SecurOS® Face Mask Detection module detects the presence and/or absence of a protective mask on a person's face and generates an alert that can be sent to security personnel as well as stored in a database for future reports and analysis. The module can also be bundled with the aforementioned FaceX solution to identify those persons not wearing a mask.

1. <https://ohsonline.com/Articles/2021/06/01/Watch-for-Falling-Objects-PPE-to-Protect-You-on-the-Job-Site.aspx?Page=2>

2. <https://www.fda.gov/food/food-safety-modernization-act-fsma/fsma-final-rule-produce-safety>

Who is ISS?



Founded in 1996, ISS is one of the pioneers and leading developers of artificial intelligence (AI)-driven analytics.

Custom, high-trust analytics

ISS has almost 200 developers and engineers developing custom, high-trust analytics to meet the unique requirements of clients across multiple vertical markets.

Whether you are looking to secure a corporate office building, critical infrastructure site or an entire city, ISS has the video intelligence solutions that are needed today to not only safeguard people and property, but also streamline and improve operations.

Headquartered in
Woodbridge, N.J.

Deployed in over
50 countries
across
6 continents

3 Million
cameras under
the command of
our SecurOS[®]
platform

18 offices across
the globe

Portfolio of
30+ different
patents and
trademarks

To learn more about ISS, visit www.issivs.com