



SecurOS Helmet Detector

Advanced monitoring of the use of personal protective equipment

Issue

ISS complex solutions using at the manufacturing plant for labor protection.

Some of these cases are:

- > increasing of work discipline
- > reducing the casualty rate, resulted from safety violation

Construction site, foundry, coal mine - work in such areas requires strict compliance staff safety rules, including using of protective equipment.
One of the most frequently used tools is a helmet.

To control the compliance with safety regulations the customised ISS video analytics are applied.

Their indications are processed by the upper level system's logic:

- > continuous monitoring of the use of PPE



Helmet Detector

- > the emergence of people in high-risk areas



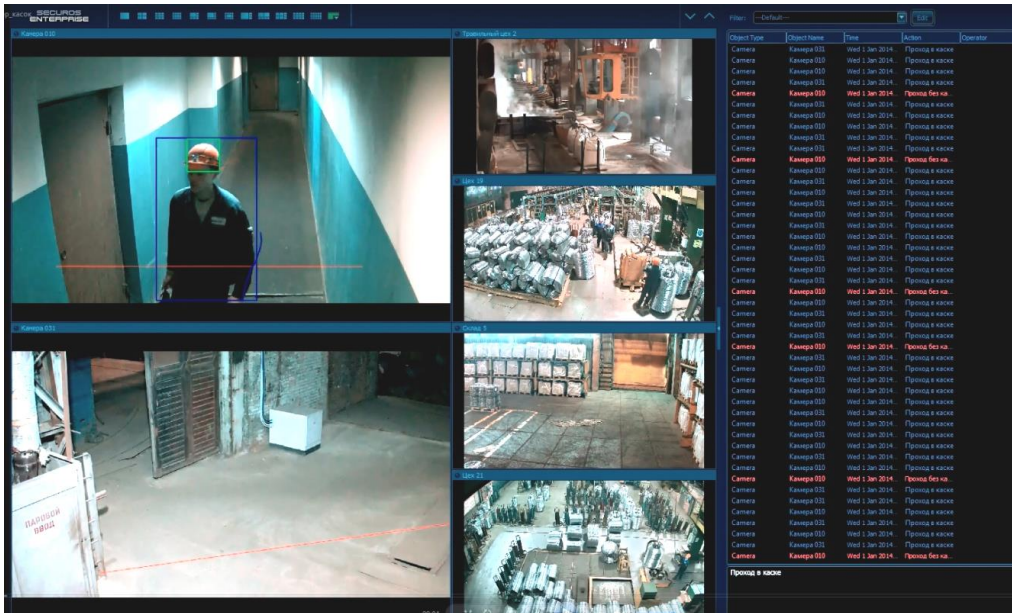
People Tracking

Overview

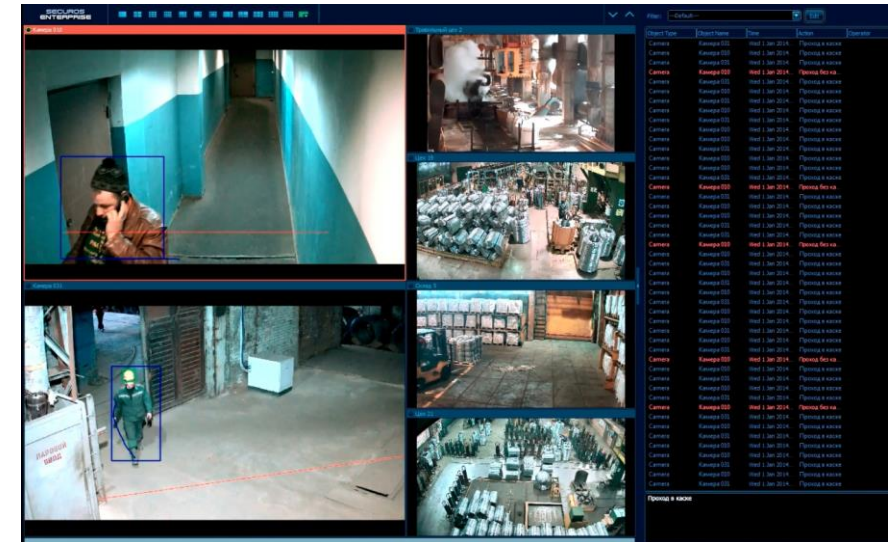
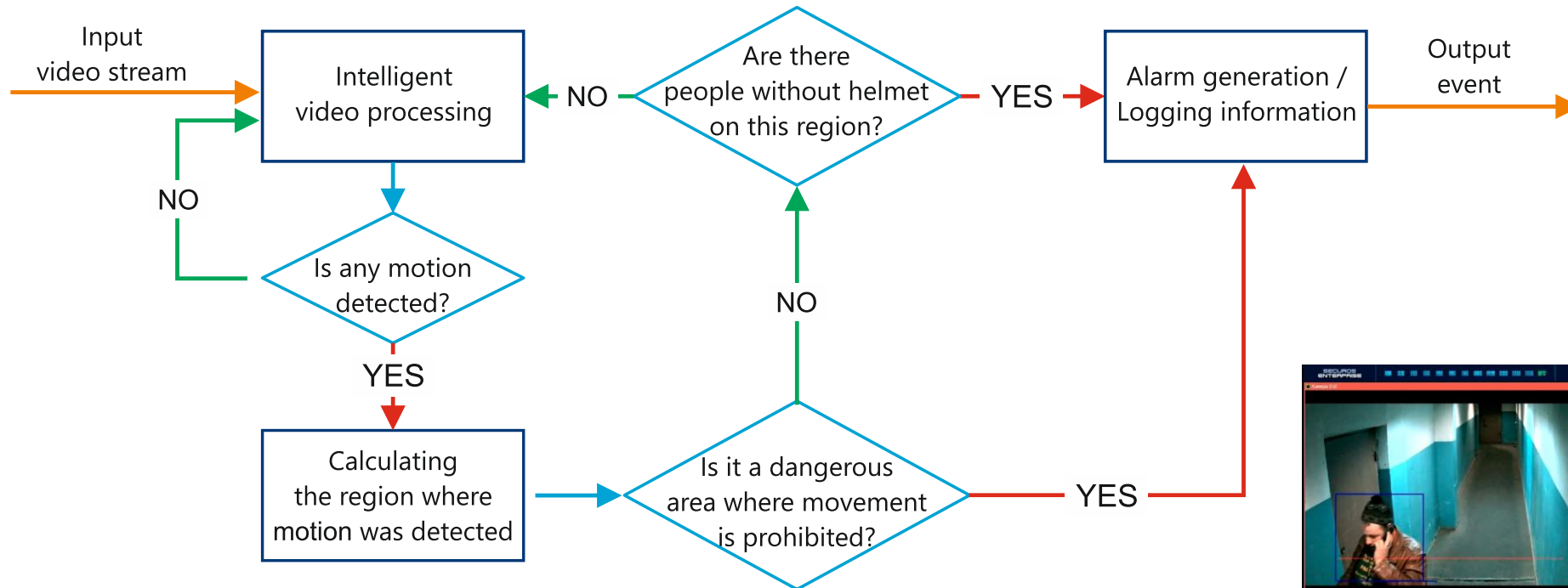
ISS video analysis, in conjunction with strategically placed video surveillance cameras, allows the detection of production staff who are not wearing protective head gear in areas where it is required.

- > the analytics system observations are recorded and transmitted in the form of alarm messages to security staff
- > they promptly receive the necessary information about the incidents: the place, the time, and the relevant video footage
- > they then respond to violations of safety measures carried out in accordance with the internal protocol of the enterprise
- > in addition to rapid alerts, all received events are logged into the system, which allows one to obtain statistics of specific violations

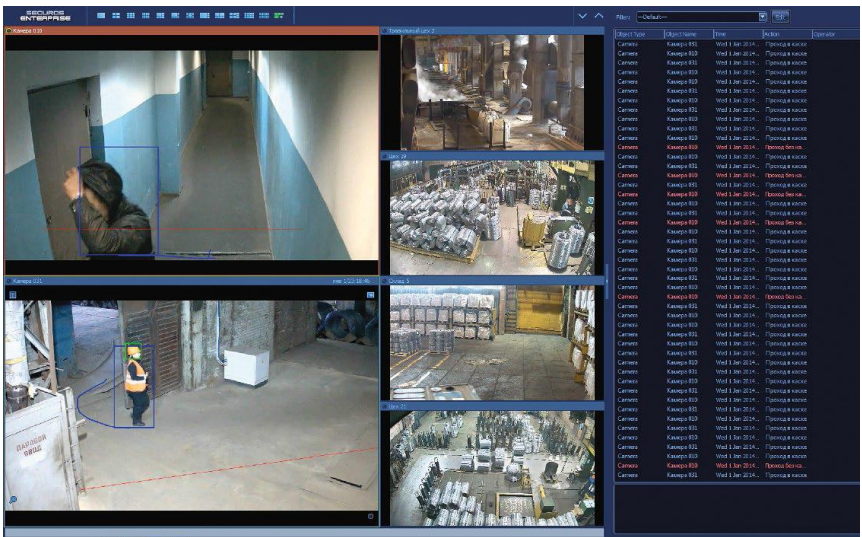
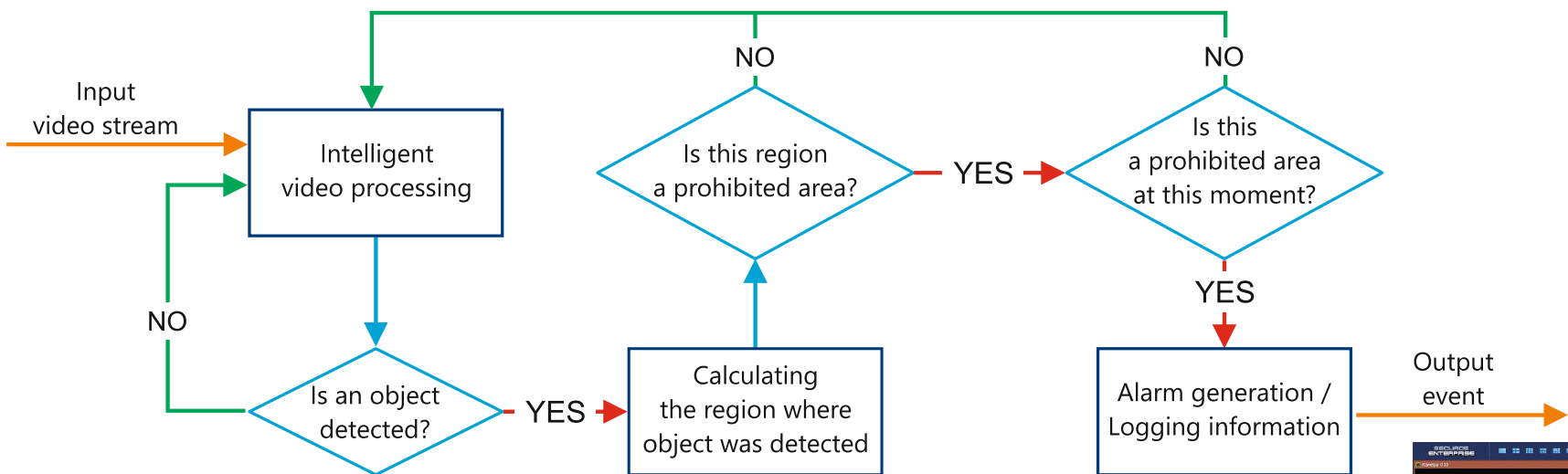
Crucial to this are the accurate reads the video analytic systems provides, even in poor lighting or steamy conditions. The highly intelligent nature of the algorithms makes this possible, and results in very few false alerts.



Operation algorithm of helmet detection



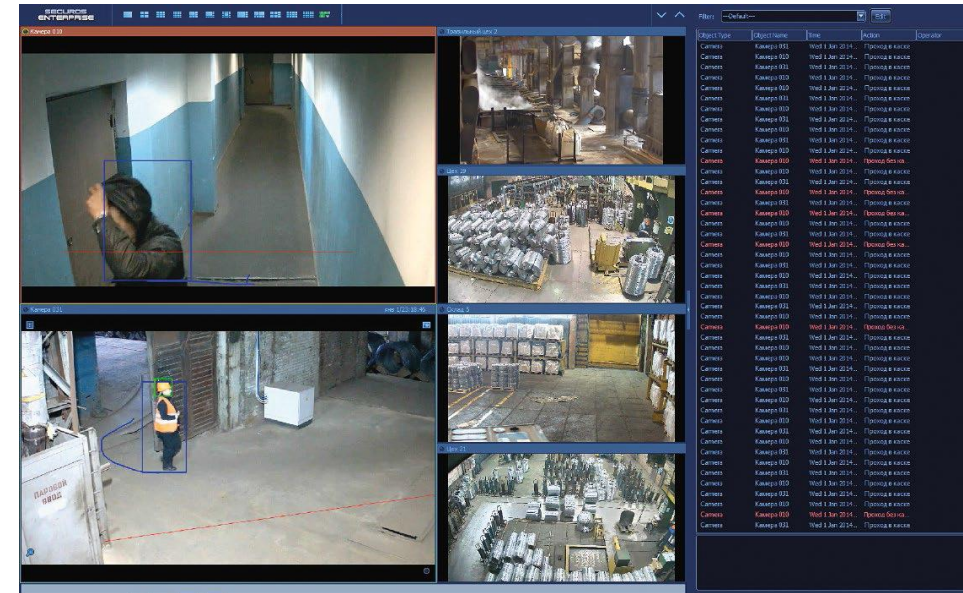
Operation algorithm of people tracking



Applications and results

Results of implementation

- > a significant increasing of work discipline and reducing the casualty rate which lead to industrial injury
- > compliance with labour legislation the existence of evidential base to administration: video recording the facts of professional dereliction



Primary applications



Manufacturing sites



Warehouse terminals



Sea ports



Construction sites



19/1 Suvarovskaya str.,
Moscow, Russia, 107023

+7 (495) 645-2121 | info@iss.ru | <https://en.iss.ru/>