



TRASSIR Wear and Hard Hat Detector

Smart Workwear and Hard Hat Control Module

Live video analytics for automatic monitoring of employee compliance with workwear and hard hat requirements



TRASSIR Wear and Hard Hat Detector

TRASSIR®

Smart video analytics module to monitor the presence of workwear on employees according to the color of the uniform. Module uses to monitor the use of hard hats by personnel, to alert on non-compliance with safety procedures, thereby significantly reducing the risk of accidents

It is designed to allow the organization managers to:

- ensure compliance with safety regulations
- at manufacturing and industrial plants;
- differentiate access rights to different areas by color of uniform; respond in a timely manner to the appearance
- of unauthorized persons in designated areas;
- count the number of employees in a given uniform;
- reduce the risk of workplace injuries and prevent accidents from occurring;
- respond in a timely manner to violations of regulations.
- monitor the wearing of hard hats;
- automate the monitoring of safety performance.



How Does It Work?

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The module is based on a neural detector that detects and classifies people wearing uniforms of a certain color.

Using analytics allows you to identify offenders and separate employees from visitors. The nature of work in some industries, such as mining, construction, metallurgy, logging, energy, and the like is such that the most effective way to level out the risk of workplace injuries is to use personal protective equipment, the most important of which will always be a hard hat and uniform.

- Helps prevent accidents caused by a lack of protective workwear
- The module is powered by a neural object detector, which effectively detects the presence of hard hats on personnel and visitors in areas of interest.
- The use of progressive algorithms makes it possible to avoid false positives and to detect hard hats only if they are worn on the head.



TRASSIR Wear and Hard Hat Detector usage scenarios



Monitoring of safety regulations compliance

In the event of the appearance of a person without a uniform, on-site operator is automatically sent an alarm notification and/or an audible alert

Eliminating accidents in hazardous industries

Timely supervision of compliance with workwear regulation can reduce the likelihood of injuries at enterprises

Reducing supervisory staff

Automation of control functions allows to reduce the number of employees involved in the control of safety

Accident investigation

Recording to the archive and subsequent quick search of incidents help provide an evidentiary basis in the part of occupational injuries investigation

Compliance with access zones and sterile areas

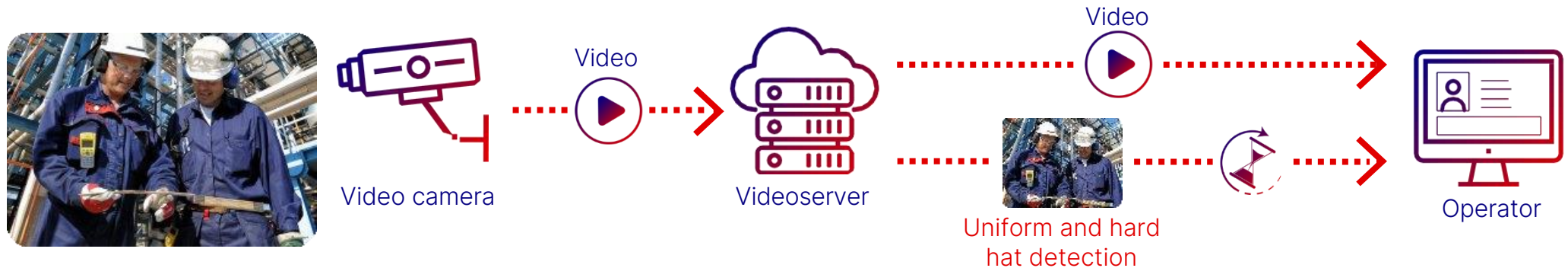
Configuration of access restrictions to specified areas for certain categories of employees

Security function

Exclusion of response scenarios for uniformed employees as a tool for controlling intrusion into protected areas

Solution functionality. How does it work?

TRASSIR[®]



Reaction scenarios

Notifications in the
TRASSIR interface

Generating and
exporting reports:
• Number of incidents

Notifications:
• Email-notifications
• Telegram

Solution functionality. How does it work?



Areas of application

TRASSIR[®]



Seaports



Hydroelectric power plants



HoReCa



Construction industries



Gas industry



Forest industry



Oil industry



Mineral resource industry



Airports and railway stations



Business centers and offices



Retail



Power industry

Solution benefits



Cost effectiveness and efficiency

Option to automatically monitor safety compliance reduces the number of personnel required and provides a complete monitoring cycle



Prevention of accidents and fines

An effective automated system can prevent most accidents, which greatly reduces the pressure on the company from regulatory agencies



Safety control

Production safety for employees and visitors as an important reputational component



TRASSIR CMS management system

A corporate solution for managing tens of thousands of servers and hundreds of thousands of cameras within a single system. System health monitoring. Access restrictions. Consolidated video analytics data collection



Control of compliance with clean zone boundaries

Division of personnel into zones of responsibility and prevention of violations of the production process



Integration

The necessary set of mechanisms for integration with hardware



TRASSIR VMS management system

A local system for easy management of cameras and servers. It allows monitoring the health of the servers, and ensures the reliability of the archive record



Modification

Option to expand functionality and create customized solutions



Operator interface

Real-time monitoring, prompt notification of critical situations and informative reporting

TRASSIR Wear and Hard Hat Detector.

Stories of success



The largest network of meat processing plants, consisting of 20 facilities spread across the country

Project tasks:

- elimination of sanitary norms violation
- (lack of protective workwear, contamination of workwear, lack of gloves and hats, etc.)
- monitoring of safety violations
- violation of internal working conditions of the enterprises
- control over the working time of employees and its efficiency
- prevention of theft at the enterprise

Implementation result:

- Establishing a centralized monitoring for all facilities
- Customization of analytical modules to provide the necessary statistics and timely notification of violations



Industry: Food processing



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