



TRASSIR[®]

TRASSIR Hard Hat Detector

Smart Hard Hat Wear Control Module

Live video analytics to improve safety
monitoring at the enterprise



TRASSIR Hard Hat Detector

Smart video analytics module 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:

- monitor the wearing of hard hats;
- automate the monitoring of safety performance;
- reduce the risk of workplace injuries and prevent accidents from occurring;
- respond in a timely manner to violations of safety norms.



How does it work?

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.

- 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 Hard Hat Detector usage scenarios

Monitoring of safety regulations compliance

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

Eliminating accidents in hazardous industries

Timely control over the wearing of hard hats can reduce the likelihood of injuries in the workplace

Reducing supervisory staff

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

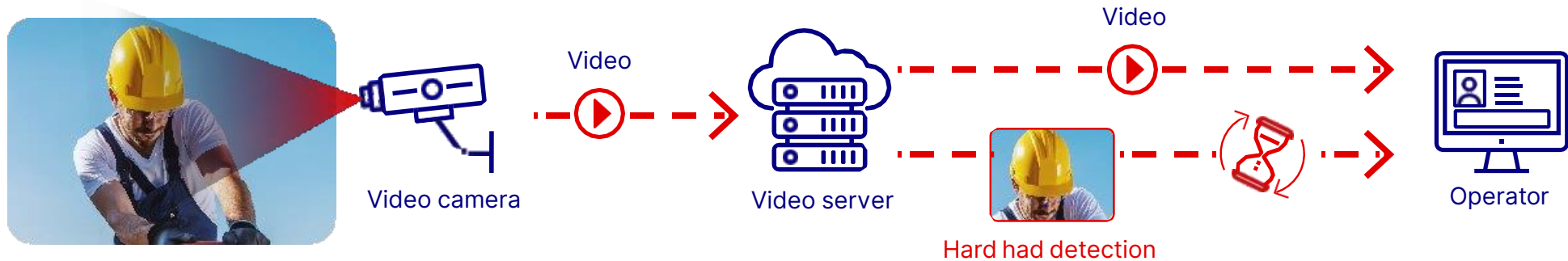
Accident investigation

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

Statistics generation

The use of reporting allows to analyze the statistics of violations in terms of employees and areas of interest. The data can be used to further optimize the business process

Solution architecture. How does it work?



Reaction scenarios:

1 Notifications in the TRASSIR interface

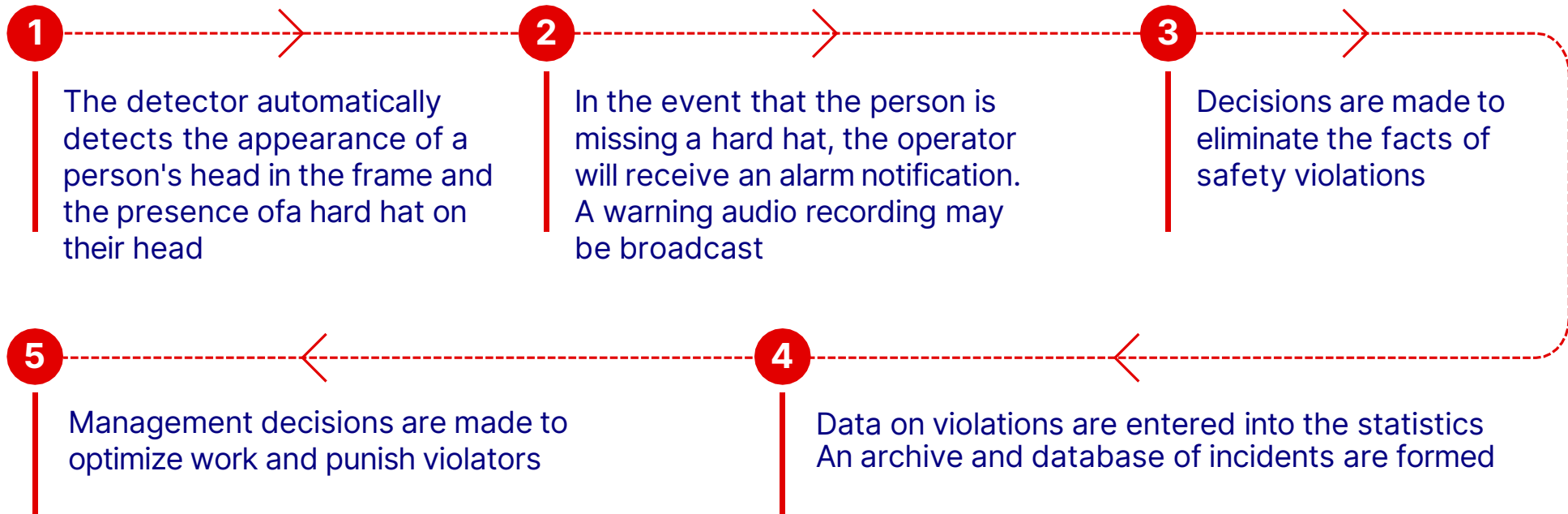
2 Generating and exporting reports:

- Number of incidents
- Areas with the highest rate of violations

3 Notifications:

- Email-notifications
- Telegram
- data export to CSV and XLSX

Solution functionality. How does it work?



Areas of application



Construction industries



Power industry



Hydroelectric power plants



Seaports



Mineral resource industry



Oil industry



Gas industry



Forest industry

Solution benefits

Cost effectiveness efficiency

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

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

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

Prevention of accidents and fines

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

Operator interface

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

Modification

Option to expand functionality and create customized solutions

Safety control

Production safety for employees and visitors as an important reputational component

Integration

The necessary set of mechanisms for integration with hardware

You may also be interested in:

1

Wear detector – a neural network module for determining if a person is wearing workwear or a uniform (color analytics)

2

ActiveDome – a module for tracking the movement of people with (and without) hard hats and uniform with a high degree of accuracy

3

AutoTRASSIR – a module for checkpoint automation based on license plate recognition

4

Face Mask Detector – a module for monitoring compliance with face mask requirements in public places

5

Pose Detector – human pose analysis module

6

Face Recognition – a TRASSIR software add-on for recognizing and searching people using a preconfigured face database.

7

ActiveDome + Neuro – a module for automatic control of rotating cameras.

The neural detector detects where people or vehicles are in the field of view of the view camera, and the pan-tilt camera automatically follows their movements, allowing you to get a better image.



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