

A photograph of an industrial facility, likely a refinery or chemical plant, featuring several tall, cylindrical chimneys and a complex network of pipes and metal structures. A large crane is visible in the background. The sky is blue with some clouds. The image is overlaid with a dark purple gradient on the left side, which contains the TRASSIR logo and text.

**TRASSIR**

# TRASSIR Solutions for Industry

Ready-made CCTV solutions for  
the industrial sector

# All solutions are divided into 4 large blocks

## 1 Manufacturing efficiency

- Counting bags, boxes or similar objects on a conveyor
- ArUco marker detector
- Monitoring warehouse operations in a finished goods warehouse
- Tracking and monitoring staff working hours
- Tracking and monitoring the presence of staff in the work area

## 2 Protection from external factors

- Licence plate recognition
- Employee face recognition
- Access control system in conjunction with face and licence plate recognition
- Access control system based on card and employee face recognition (two - factor authentication)
- Detecting intrusion into a restricted area by an unauthorised person, vehicle or bicycle
- Video surveillance of large areas
- 'Smart Checkpoint' solution
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## 3 Internal security

- Monitoring wearing of helmets
- Monitoring wearing of protective clothing
- Monitoring mask wearing
- Detecting employee recumbent posture
- Preventing people from being in the wrong or dangerous area
- Preventing theft in collusion with a security guard

## 4 Performance of technical departments

- Smoke detection
- Fire detection

# 1 Manufacturing Efficiency

Solution	Technology	Your benefits
Counting bags, boxes or similar objects on a conveyor	<b>Bag Counter</b> - an analytics module that enables counting similar items moving along a conveyor	<ul style="list-style-type: none"> <li>• Accurate product counting</li> <li>• Theft prevention</li> <li>• Preventing errors when shipping goods</li> </ul>
ArUco marker detector	<b>ArUco Detector</b> - a module for recognising augmented reality markers (ArUco codes) applied on items	<ul style="list-style-type: none"> <li>• Accurate product counting</li> <li>• Quick search for the desired product</li> <li>• Preventing supply errors</li> </ul>
Monitoring warehouse operations	<b>ActiveStock</b> - a module for event-based video monitoring of warehouse operations	<ul style="list-style-type: none"> <li>• Quick dispute resolution at the warehouse</li> <li>• Quick search for incidents by events</li> <li>• Easy determination of accountability for a product</li> </ul>
Tracking and monitoring staff working hours	<b>Workplace Detector</b> - a module that enables monitoring the presence of staff at the workplace	<ul style="list-style-type: none"> <li>• Monitoring schedule compliance</li> <li>• Monitoring compliance with man-hours at the manufacturing site</li> <li>• Notification when tolerance is exceeded</li> </ul>
Tracking and monitoring the presence of staff in the work area	<b>Neuro Detector</b> - a neural network module that enables detecting intrusion and presence of a person in a certain area	<ul style="list-style-type: none"> <li>• Monitoring presence in a critical area</li> <li>• Monitoring the crossing of a given line</li> <li>• Monitoring dangerous machinery operators</li> </ul>

## 2 Protection from External Factors

Solution	Technology	Your benefits
Licence plate recognition	<b>AutoTRASSIR</b> - a module designed for automatic recognition of vehicle licence plates in the field of view of the video camera	<ul style="list-style-type: none"> <li>Increasing, monitoring and forecasting checkpoint capacity</li> <li>Automatic recording of the time of entry and exit of vehicles</li> </ul>
Employee face recognition	<b>Face Recognition</b> - a TRASSIR software module for recognising and searching people based on a preconfigured face database	<ul style="list-style-type: none"> <li>Accurate identification of an employee by their face</li> <li>Automatic checking whether a person is white-or black-listed</li> </ul>
Access control system in conjunction with face and licence plate recognition	<b>TRASSIR ACS</b> - an access control and management system based on the TRASSIR platform	<ul style="list-style-type: none"> <li>Fewer manual labour errors</li> <li>Fewer guards</li> </ul>
Access control system based on card and employee face recognition (two - factors authentication)		<ul style="list-style-type: none"> <li>Preventing theft in collusion with a security guard</li> </ul>
Detecting intrusion into a restricted area by an unauthorised person, vehicle or bicycle	<b>Neuro Detector</b> - a neural network module that enables detecting intrusion and presence of a person in a certain area	<ul style="list-style-type: none"> <li>Automatic intrusion detection</li> </ul>
Video surveillance on large areas	<b>ActiveDome</b> - a TRASSIR PTZ camera manual control module (SpeedDome)	<ul style="list-style-type: none"> <li>Fewer cameras</li> <li>Precise selection of the video surveillance focal area</li> <li>Flexible solution with a customisation feature</li> </ul>
'Smart Checkpoint' solution	<b>Smart Checkpoint</b> - ready-made solution for comprehensive checkpoint automation	<ul style="list-style-type: none"> <li>Full checkpoint and parking automation</li> <li>A ready-made set of products for solving the task</li> </ul>

# 3 Internal Security

Solution	Technology	Your benefits
Monitoring wearing of helmets	<b>HardHat Detector</b> - a module that enables determining whether a person is wearing a helmet	<ul style="list-style-type: none"> <li>• Accurate monitoring of compliance with safety regulations</li> <li>• Fewer occupational injuries</li> <li>• Lower risk of fines and compensation</li> </ul>
Monitoring wearing of protective clothing	<b>Wear Detector</b> - a module that enables determining whether a person is wearing protective clothing or a uniform (by color)	<ul style="list-style-type: none"> <li>• Accurate monitoring of compliance with safety regulations</li> <li>• Fewer occupational injuries</li> <li>• Lower risk of fines and compensation</li> </ul>
Monitoring mask wearing	<b>Face Mask Detector</b> - a module that monitors the wearing of protective masks in public places	<ul style="list-style-type: none"> <li>• Accurate monitoring of compliance with safety regulations</li> <li>• Fewer occupational injuries</li> <li>• Lower risk of fines and compensation</li> </ul>
Detecting employee recumbent posture	<b>Pose Detector</b> - a neural network-based module for analysing a person's posture	<ul style="list-style-type: none"> <li>• Rapid detection of a person in case of an emergency</li> <li>• Capacity to promptly provide first aid</li> <li>• Reducing the severity of the consequences of the injury</li> </ul>
Preventing people from being in the wrong or dangerous area	<b>Neuro Detector</b> - a neural network module that enables detecting intrusion and presence of a person in a certain area	<ul style="list-style-type: none"> <li>• Automatic intrusion detection</li> <li>• Faster response</li> </ul>
Preventing theft in collusion with a security guard	<b>AutoTRASSIR</b> - a module designed for automatic recognition of vehicle licence plates in the field of view of the video camera	<ul style="list-style-type: none"> <li>• Preventing departure without check weighing and inspection</li> <li>• Automatic recording of the time of entry and exit of vehicle</li> </ul>

## 4 Performance of Technical Departments

### Solution

### Technology

### Your benefits

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#### Smoke detection

**TRASSIR Smoke** - a smoke detector in the field of view of the video camera

- An additional way of ensuring fire safety
- Additional opportunity to take preventive measures

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#### Fire detection

**TRASSIR Fire** - a fire detector in the field of view of the video camera

- An additional way of ensuring fire safety
- Additional opportunity to take preventive measures



## Our partners





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