

# MINING FACILITIES SOLUTION

eocortex



# WOULD YOU LIKE TO:

- 1 Organize automated access control of vehicles to the territory of the mining facility?
- 2 Organize automated access control of people in the territory of the mining facility?
- 3 Cover a larger area of observation in the mining facility with fewer cameras?
- 4 Provide streaming and video stream recording regardless of force majeure factors?
- 5 Would you like to receive immediate notifications of the CCTV system to the monitor, video wall, phone or e-mail:

- \* on the absence of a hard hat on the head of an employee
- \* on detecting smoke or fire in a mining facility
- \* on detection of CCTV camera malfunction in a mining facility





# MINING SOLUTIONS

Eocortex VMS helps solve key security and operational tasks:

- track the movement of suspicious individuals in the area
- monitor traffic & vehicle entrance
- provide streaming & recording of force majeure factors
- detect safety violations (e.g. no helmet, missing personnel)
- Send instant alerts to screens, video walls, phone, or email of any emergency factor

**All in one secure, intelligent video system.**

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# THERE IS NO NEED TO CONTACT OTHERS

Eocortex is a global developer of AI-powered Video Management Software.

We build everything in-house — VMS and video analytics in one seamless platform, so customers don't need multiple vendors.

**One system. Full control.**



2008  
company founded

85+  
countries

15 000+  
projects implemented

# ANALYTICS FOR MINING FACILITIES

We have created a package of intelligent modules that solve your problems:



Smoke and Fire  
detection



Tracking



Sabotage  
Detection



Face  
Recognition



Face Mask  
Detector



Uniform  
Detector



Loud Sound  
Detection



Search for  
Objects



License Plate  
Recognition



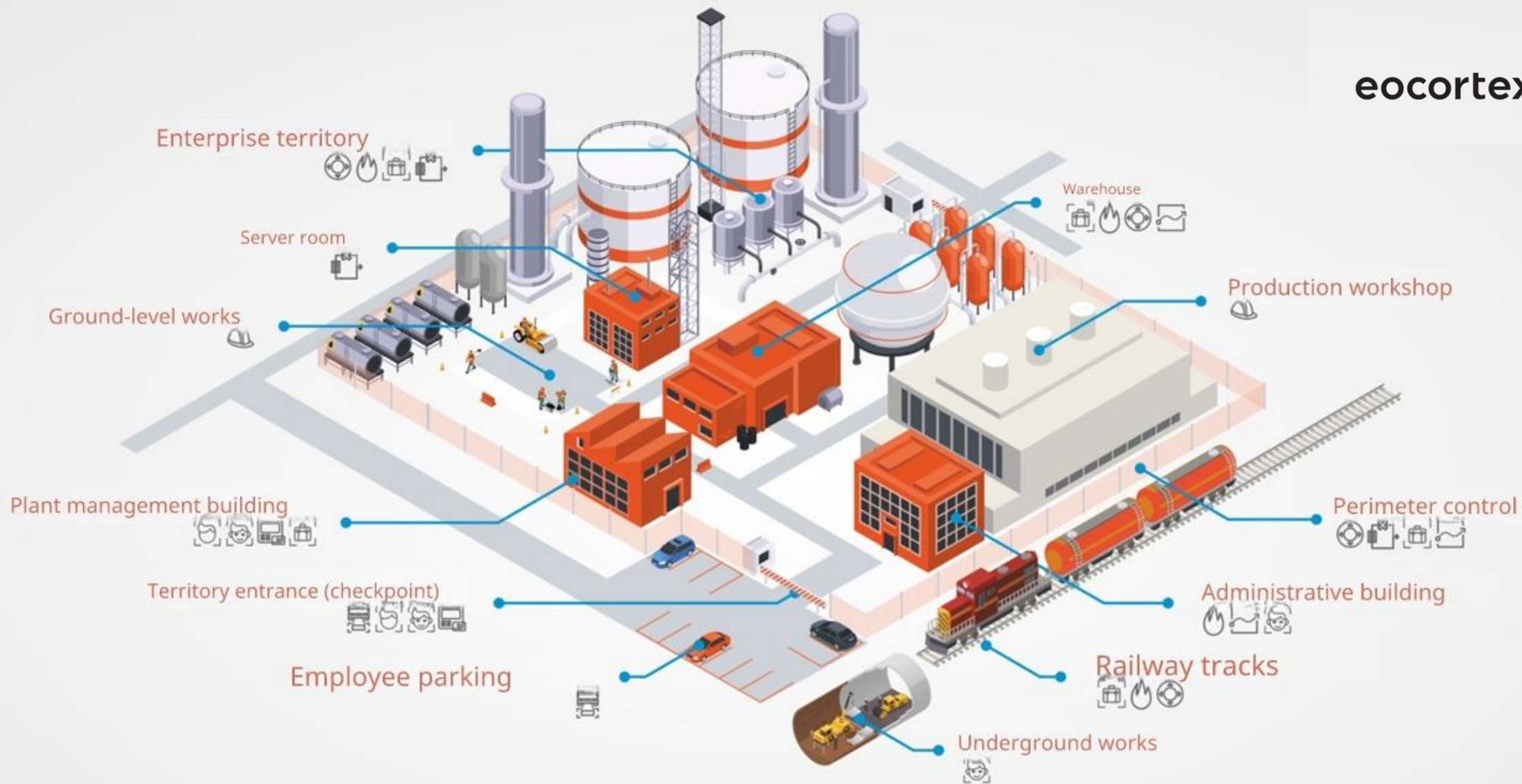
Failover






PTZ Camera  
Control









Fall Detection






-  License plate recognition
-  Object search
-  Face detection

-  Face recognition
-  Smoke and fire detector
-  Abandoned object detector

-  Loud sound detector
-  Special clothing control
-  Sabotage detector

-  PTZ camera control
-  Tracking
-  Personnel activity control

-  Audio stream processing
-  Channel reservation with display
-  Integration with ACS and fire alarm system

# SMOKE AND FIRE DETECTION

To avoid victims, disasters caused by fires



## FEATURES

- In case of detection of "Smoke" or "Fire" events, you receive an immediate notification to your monitor, phone or e-mail.
- All module events are recorded in the Event Log for quick search in the archive.
- You can integrate the module with fire alarm system.

## BENEFITS

- Prevent fire or smoke from spreading
- Promptly inform staff in the danger zone for their subsequent evacuation and rescue
- Investigate causes of fire or smoke

# TRACKING

For trajectories of the objects track the crossing of lines



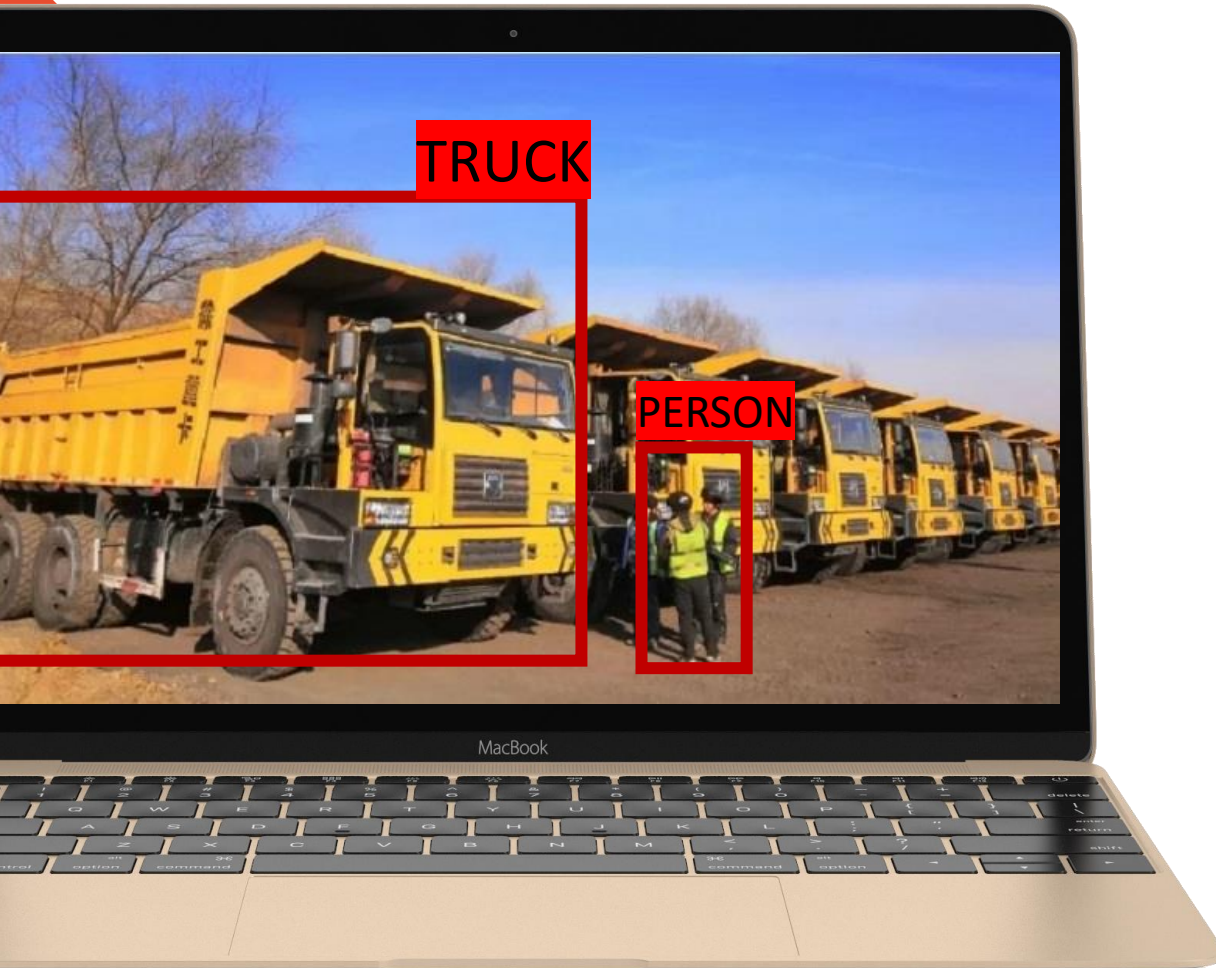
## FEATURES

- You receive an immediate notification to your monitor, phone or e-mail: when an object crosses the control line, moves in the area, has remained in the area for a long time

## BENEFITS

- Safeguard your property
- Prevent a possible terrorist attack
- Ensure the safety of you and your staff

# TRACKING OF SPECIFIC TYPES OF VEHICLES



## FLEXIBILITY OF SETTINGS

Specify different objects for tracking for different areas

## 2 OPERATING MODES

All moving objects:  
the module detects all objects in motion

Filter by category:  
the module detects specific objects:  
people, types of vehicles, animals

# FACE RECOGNITION

To organize 100% controlled access of employees to the territory.



## FEATURES

- Possibility to integrate the module with the access control system
- Creation of databases with blacklisted and trusted people
- When a blacklisted people are recognized, you'll receive automatic notifications to the monitor, phone or e-mail

## BENEFITS

- Automatic admission to the premises of those people who have appropriate permission, and control the time they spend there
- Automated logging of events – lists of people and time of entry and exit
- Monitoring the time people stay on the territory

# Faces turned away from the camera or masked can still be recognized

The accuracy of recognition of people wearing medical masks

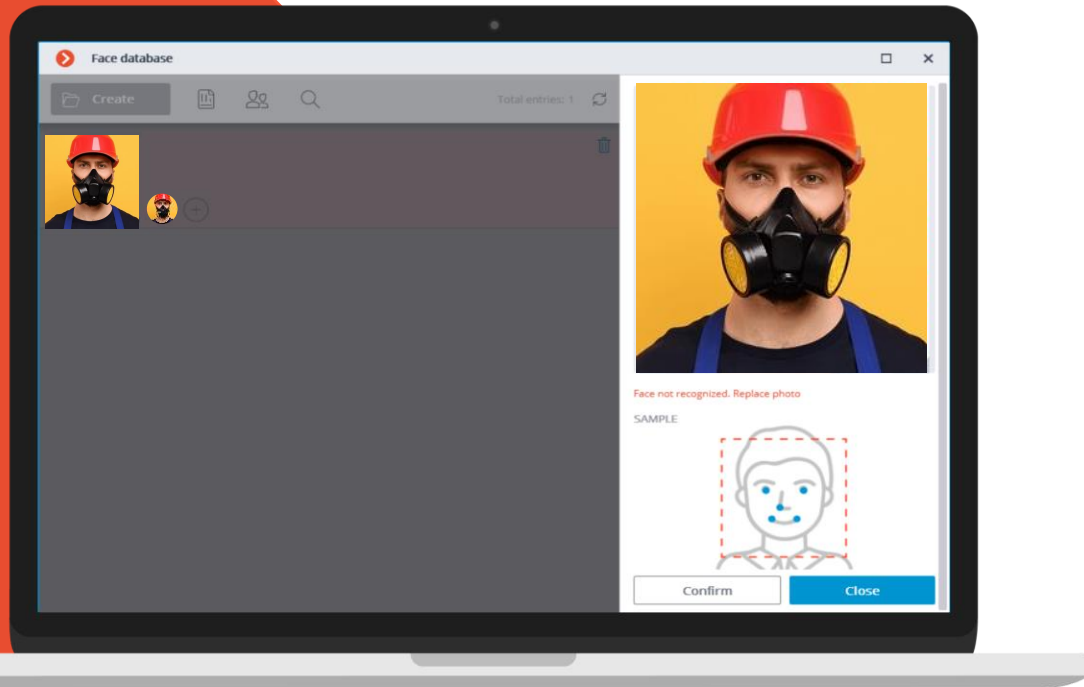
up to 80%

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The overall accuracy of face recognition, even of faces turned away from the camera

up to 98%

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# UNIFORM DETECTOR

Minimize the number of injuries due to violation of safety requirements by workers



## FEATURES

The module determines whether a person:

- has a hard hat on
- wears a vest
- wears uniform (by colors)

The module gives an alarm if the clothes do not meet the preset parameters

## BENEFITS

- Minimize the cases of violation of safety regulations by the employees
- Prevent injuries in the workplace
- Avoid penalties from regulatory authorities
- Investigate the circumstances of cases of safety regulations violation

# LICENSE PLATE RECOGNITION

To organize fully controlled car access.



## FEATURES

- add license plates to the database, create their "black" and "white" lists
- control the opening of a rising arm barrier
- save time and date of recognition, license plate, links to the corresponding video frame in the archive

## BENEFITS

- ensure automatic admission of vehicles that have a permission to enter, and control the time they stay in the territory
- prevent the entrance of unauthorized vehicles

# SEARCH FOR OBJECTS

For objects search and investigation



## FEATURES

- Help to locate a person, vehicles, animals, bags and hazardous items (firearms and baseball bats) using their particular characteristics (shape, color of clothes, dimensions) and even build their route

## BENEFITS

- Quickly find a suspected offender and dispatch security forces to neutralize him/her

# FALL DETECTION MODULE

To prevent injury of employees

Neuroanalytical technology and human movement algorithms for swift detection and response to person falling.

- Set the detection frequency (the higher it is, the faster the fall will be detected)
- Set detection zones to avoid false alarms



Instantly find out about workplace or construction site injuries



Provide immediate medical help



Time: 11 January 2024, 11:12:52.626  
Camera: Camera 1.  
Type: Information.  
Event: Fall detected.  
Initiator: External module.  
Description: Camera 1. Fall detected - Area.  
Fall Detection.  
ive.

# PRODUCTS FOR MINING FACILITIES

Additional options that will keep your processes in safe:



## Sabotage Detection

To minimize the time of video surveillance cameras inoperability



## Failover

To provide a video stream and to record a video archive regardless of force majeure factors



## Video Wall

To build a video wall, consisting of any number of separate monitors



## PTZ Camera Control

To provide greater flexibility of the video surveillance system



# Remote Access

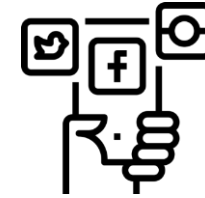
iOS, Android & Web Client via the browser.



Email



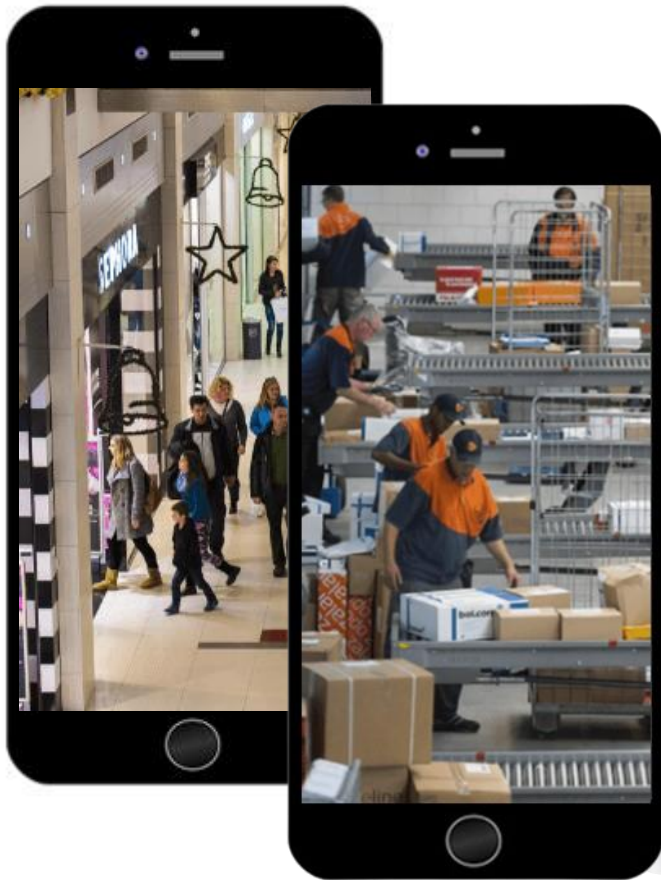
Notification  
on the monitor



Messenger notification  
(Facebook, Viber,  
Telegram)



PUSH notification & SMS



# COMPATIBILITY

eocortex



AVIGILON



Brickcom



D-Link



HIKVISION

Honeywell



Panasonic

PELCO

SONY

uniview



And other  
100+  
manufacturers



## 1-TIME PURCHASE



1 license = 1 camera

## EOCORTEX VMS:

- FREE** All Eocortex New Versions updates
- FREE** Technical support
- FREE** System core and server licensing
- FREE** Technical and commercial training
- FREE** Pre-Sale service cost for your projects
- FREE** Workplace and remote workplace licensing
- FREE** SDK and API tools for integration with external systems

1-TIME PURCHASE



## Hulamin aluminium factory ▶

📍 South Africa

Industry  
Manufacturing

Number of cameras  
**1000**



**Hulamin** – largest aluminum factory in South Africa.

**Cameras:** 1,000+ ST licenses with video analytics (tracking & PTZ control).

**Goal:** Ensure labor safety, monitor personnel, easy installation & use, integrate with existing NVR/equipment, and support continuous scaling.

**Solution:** After a poor experience with another VMS, Hulamin chose **Eocortex** – growing from 40 to 1,000 cameras.

**Why Eocortex:** Ease of use, scalability, and video analytics for safety and production control.



## Unipharma ▶

📍 Slovakia

Industry  
Manufacturing

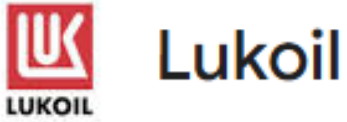
Number of cameras  
**242**



**Unipharma** – founded in 1992, wholesale of pharmaceuticals, medical cosmetics, and equipment. Now #2 in the Slovak medicines market.

In healthcare and pharmacy facilities, video surveillance enhances visitor/staff security and optimizes production costs.

**Why Eocortex:** recordings help analyze false claims and improve productivity via the Personnel monitoring module.



Industry  
Oil and gas station



Number of cameras  
100

Dozens of Lukoil gas stations were connected in Bashkortostan. Each station has 2–3 Beward IP cameras (100+ total).

**Solution:** Video feeds go to Volkodav's monitoring center; a panic button alert instantly shows the live camera feed.

Lukoil managers: "A year in – fully satisfied. The software is reliable, easy to use, and efficient."



Termo Teknik  
Turkey

Industry  
Manufacturing

Number of cameras  
256



**Termo Teknik** is a subsidiary of Stelrad Radiators Group (SRG) in Turkey and one of the biggest heating system suppliers in Europe. Termo Teknik was established in 1966 in Istanbul.

**Number of cameras:** more 250 ST license with intelligent modules included (Tracking, Suspect search, Sabotage detection, Abandoned object detection) and additionally Audio Stream Processing.

**CCTV task:** The CCTV system is assisting in ensuring labour safety: it is designed to provide the required level of security at the factory and to monitor personnel activity.

# COMPANIES THAT TRUST EOCORTEX



Mercedes-Benz



**BOSS**  
HUGO BOSS

*Media Markt*





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camera configuration

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[eocortex.com](https://eocortex.com)

