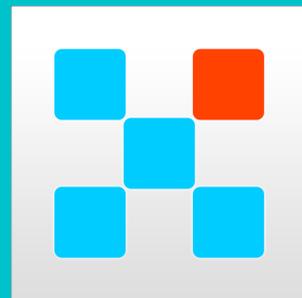


CCTV Xeoma for construction

ANALYTICS, SECURITY,
ARTIFICIAL INTELLIGENCE



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USE OF VIDEO SURVEILLANCE IN CONSTRUCTION BUSINESS

SAFETY, OPTIMIZATION, IMPROVEMENT

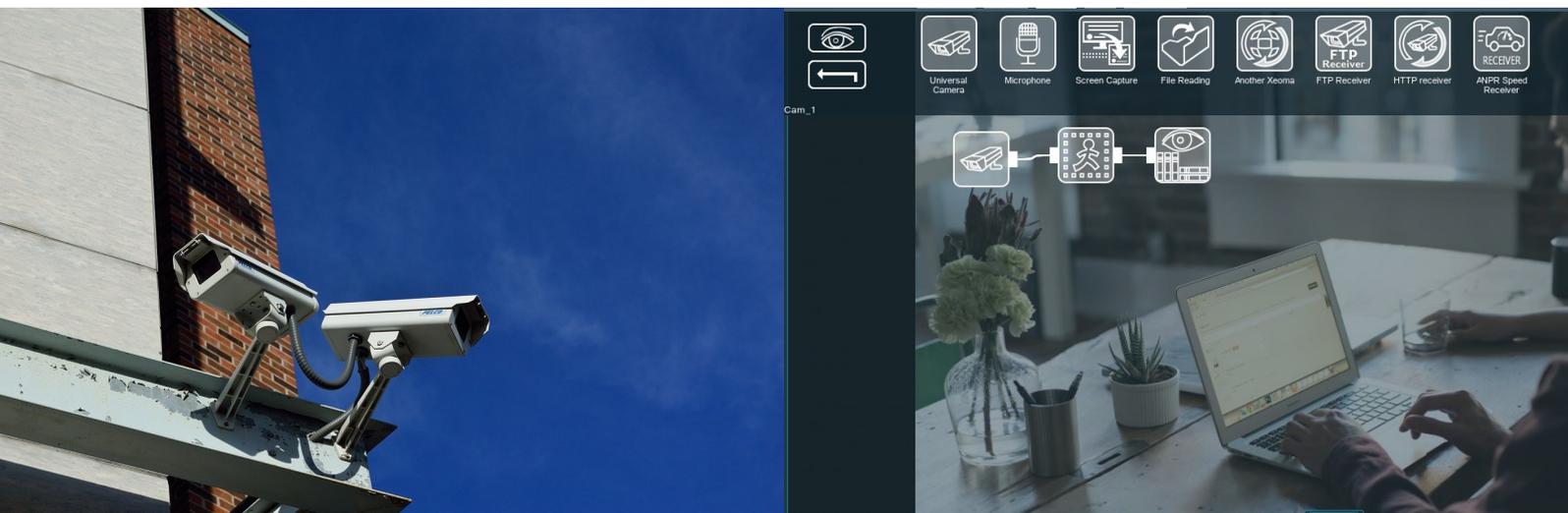
RELENTLESS, VIGILANT, WITHOUT A BREAK

Video surveillance systems can operate even in the most dangerous conditions, eliminating the risk of injury to employees. Moreover, the vigilant, all-seeing eye of the cameras can work impartially, without interruption, without distraction or fatigue. Modern video surveillance is not only video security in terms of protection against theft and intrusion. This is also Artificial Intelligence capable of *analyzing* images from cameras.

MORE THAN JUST CAMERAS

With the help of Xeoma video surveillance, you can solve many tasks in construction sites, as well as in offices or warehouses:

- access control of vehicles, employees to the territory and areas with limited access (including double authentication);
- help with working process statistics and controlling employees' activity;
- ensuring safety of employees, facility, equipment and materials at construction sites and in storage;
- reducing level of stealage, theft, waste, losses due to lawsuits and compensation for injuries at work;
- and many more.



CCTV AT THE CONSTRUCTION SITE

SECURITY AND VIDEO ANALYTICS



SAFETY HELMET DETECTOR

Compliance with safety measures in construction is not a luxury, but an absolute necessity.

This is why the Detector of Construction Site Safety (also sometimes referred to as a helmet detector) is the most popular search query for construction. This module is based on artificial intelligence technologies. It's able to detect items of uniform that are in the frame and critical for compliance with safety measures at a construction site: safety helmets and work uniform.



MULTI-DAY PROCESS IN A MATTER OF SECONDS

Another very popular feature for the construction business is the **time-lapse** (accelerated video effect) feature.

The construction process is usually very long, lasting for months, or even years, it is very time consuming to monitor it in real time. Timelapse is a great way to get a glimpse of even the longest process in a minimum amount of time, so this effect can be used by managers to analyze work over a period of time, or it can be used to visualize the building process for presentations and showing to clients.

CCTV

AT THE CONSTRUCTION SITE

SECURITY AND VIDEO ANALYTICS



ACCESS CONTROL AND LOSS REDUCTION

Building is usually a very expensive process that uses tons of materials and expensive equipment, so intrusion detection systems are an integral part of smart building processes.

Even a simple **motion detector** will be able to detect intruders on the territory in off hours and trigger an alarm.

For fenced construction sites, the **Xeoma Senstar PTZ tracking** module can be used - when a signal that sensors are triggered is received on any part of the fence, the camera will turn and shoot that area.

The **face recognition** and **license plate recognition** modules, based on artificial intelligence, can be successfully used for access control. Automation of passage for people and vehicles from the "white" list, guards notification upon detection of unknown persons.

For stricter access control, you can use a combination of the **Face ID** module with the **QR code recognition** module or the **Smart card reader**, which will only let those who show a pass with their photo, which must match the face in the frame.

CCTV AT THE CONSTRUCTION SITE

SECURITY AND VIDEO ANALYTICS



ACCESS CONTROL SYSTEM AND AUTOMATION

Xeoma can also be used to automate the routing of deliveries, allowing the machine to be directed to the desired box or sector for unloading without the participation of several people, as is often the case in systems without intellectual video analytics.

Xeoma's "License Plate Recognition" module can recognize the license plates of approaching vehicles (including trucks), compare them with specified lists and automatically launch a preset reaction - for example, to open a barrier or display a sector for unloading on the screen.

the **Object recognition** can distinguish between different types of vehicles and can be used to direct trucks to a special unloading area or send a call to a responsible worker so that he can do other tasks the rest of the time.

Xeoma's "Detector of abandoned objects" detects if any objects, cars, people or equipment are staying in restricted areas, or it can notify you if an unattended object has been in the camera's field of view for longer than usual.

CCTV AT THE CONSTRUCTION SITE

SECURITY AND VIDEO ANALYTICS



SUPPORT FOR 99% OF CAMERAS

Xeoma is a comprehensive all-in-one solution that supports 99% of the world's cameras, where many cameras of different brands and models can be used simultaneously, without having to overpay for special models with built-in analytics.

If special cameras with their own video analytics are used, Xeoma's **“Detector from camera/to camera”** module will help receive triggers from the camera and use them in the program.

Overview PTZ cameras are often used on large construction sites to cover large areas with minimal cost.

By means of Xeoma's **automatic PTZ tours** (switching through virtual checkpoints), the camera can move to different areas of the territory so as not to miss anything interesting, even if it happens in an area where the camera is not constantly monitoring.

CCTV AT THE CONSTRUCTION SITE

SECURITY AND VIDEO ANALYTICS



STAFF ACTIVITY CONTROL

Staff activity can also be monitored using Xeoma's intelligent analysis of the video stream from cameras:

The **Loitering detector** detects inactive employees and triggers the necessary reaction: reports, notifications and custom reactions are supported.

The **crowd detector** will detect if workers have gathered in a group when they are supposed to work each at their post, etc.



FIGHT AGAINST EPIDEMIC

Xeoma has modules that can be used to comply with security measures in the fight against COVID-19:

mask detector,

social distance detector,

high temperature detection

visitors counter

calculation of the stay time

CCTV AT THE CONSTRUCTION SITE

SECURITY AND VIDEO ANALYTICS



TASKS THAT CAN BE SOLVED

With the help of Xeoma video surveillance at a construction site can solve many problems:

- **Security** of the facility and adjacent territory: prevention of intrusion, theft, waste, emergency or accidents;
- Process **optimization** and quality control of construction works, cost reduction, including for management and security;
- The ability to **remotely monitor** the construction process at any time and anywhere in the world;
- The presence of an archive of video and audio recordings from cameras for **investigations and presentations**;
- Exclusion of any illegal actions by employees, visitors, clients, passers-by, etc.

XEOMA'S ADVANTAGES:

- High accuracy level and fast response
- Doesn't require any special equipment. Just your regular camera
- Affordable prices
- Ease of use. Very flexible and simple settings
- Everything is done on your computer, there is no need to connect to cloud servers.

Also available in Xeoma

EMOTIONS DETECTOR, REMOTE ACCESS, REACTIONS AND NOTIFICATIONS

EMOTIONS DETECTOR

The mood of employees in production and in company offices is often ignored, despite the fact that this is the basis of effective work.

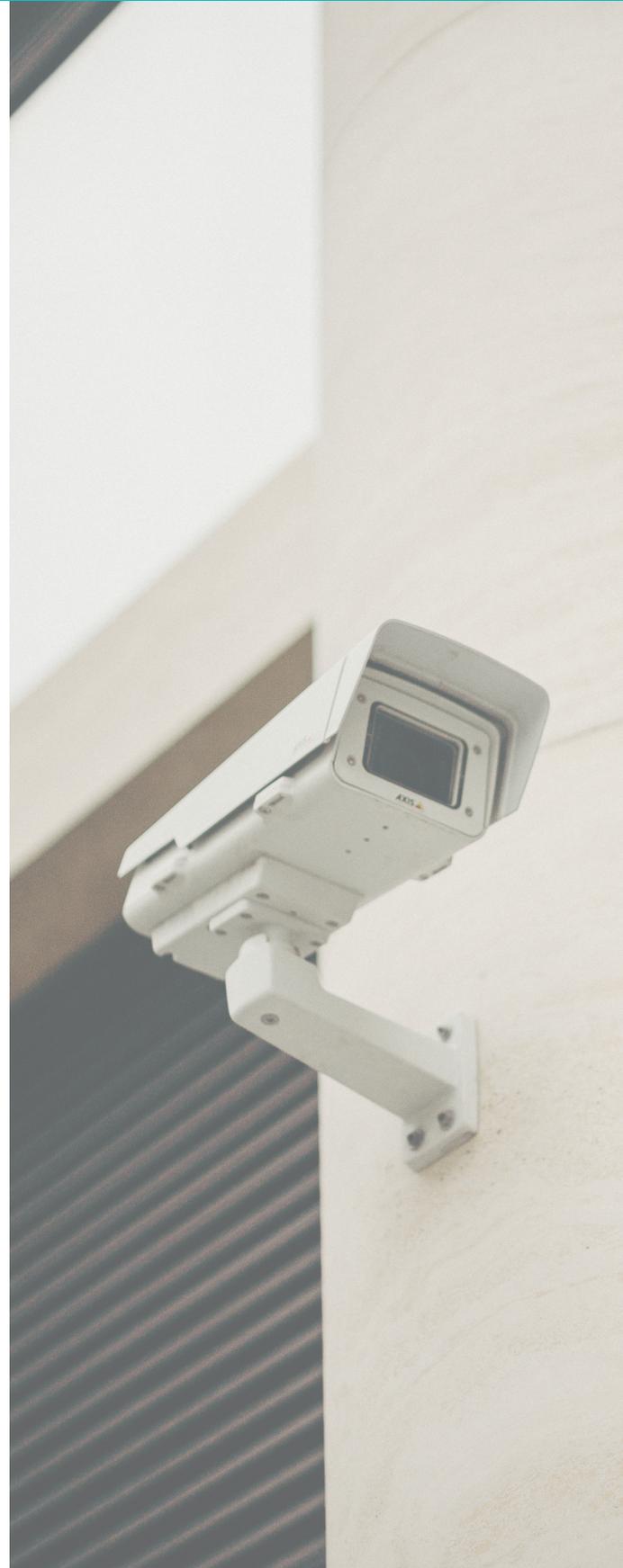
With the help of the "Face Detector (Emotions)" module, CCTV cameras can automatically keep statistics of the emotional mood in the team.

REMOTE ACCESS

The capabilities of remote access and access rights division with multi-level privileges will allow the system work autonomously, without supervision or the need to spend time on periodic checks.

VARIETY OF REACTIONS AND NOTIFICATIONS

Various reactions (sending an email, sound alarm (siren), push notifications to mobile devices, sending a command or a script, custom reactions) to detected events or alarms (including when sabotage is detected) will quickly notify the responsible persons.



And other AI-based functions in Xeoma

FEVER DETECTION, SOCIAL DISTANCE DETECTOR, OBJECT AND SOUND TYPES RECOGNITION

FEVER DETECTION

With the "Color Recognition" module, Xeoma can be used with thermal cameras to identify employees with signs of coronavirus infection.

SOCIAL DISTANCE DETECTOR

A new feature in Xeoma's Crowd Detector can detect the violation of the distance between people you set.

OBJECT RECOGNITION

Allows you to automatically find objects in the camera frame and determine their type, as well as react to the selected type of objects.

SOUND EVENTS DETECTOR

Defines the type of sound (shot, scream, car alarm) and triggers a reaction when the selected sound is detected.



A brick wall with a grid of security cameras. The cameras are arranged in a 5x5 grid, with a central column of cameras that are slightly larger and more prominent. A dark door is visible on the right side of the wall. The text is overlaid on the lower part of the camera grid.

See more at www.xeoma.com

Do you need something else? Possibilities can be added upon request:
SUPPORT@FELENASOFT.COM

