mallenom SYSTEMS

EYECONT

Safety control at distribution and transformer power substations

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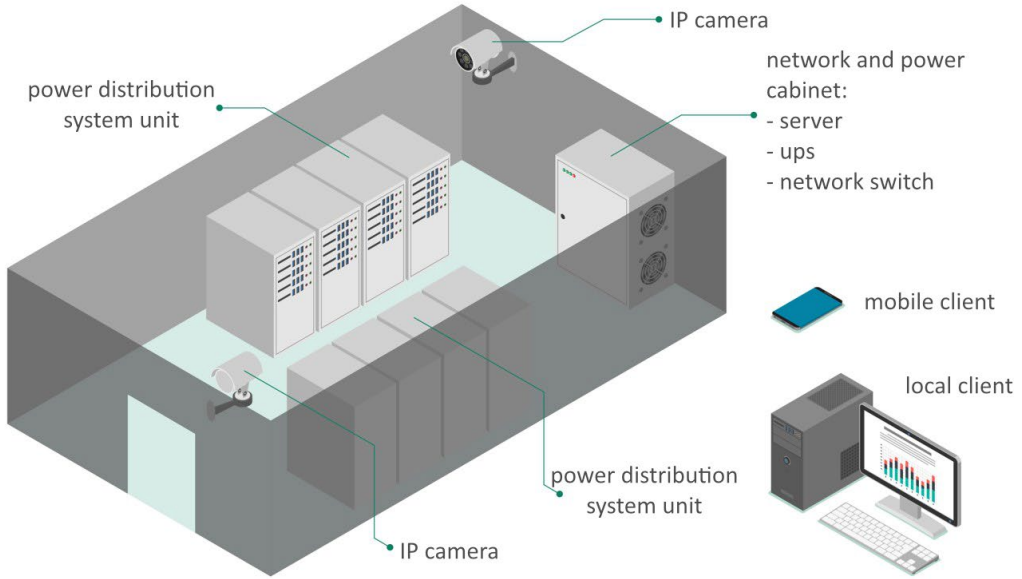
EYECONT for power substations

EYECONT intelligent system for video analytics is designed for ensuring labour health and safety at production facilities from different areas including electric power industry.

For distribution and transformer power substations EYECONT analyses footage from video cameras, detects personnel from these images, determines presence and correct use of personal protective equipment, monitors tidiness of work place after completed work, and also detects smoking personnel on the premises of distribution and transformer power stations. The main component of the system is presented in form of two video cameras and compact server that hosts EYECONT software for video analytics.

Advantages from system implementation:

- ✓ Complete control of personnel safety at distribution and transformer power stations that are scattered across the city
- ✓ Decrease in number of injuries and lethal accidents
- ✓ Improvement of personnel discipline in compliance with industrial safety rules and labour safety
- ✓ Collecting evidence of safety violations
- ✓ Informing all responsible parties instantaneously about detected violations via an email or Telegram



Control of the personal protective equipment use

Objective

To control the correct and overall use of personal protective equipment depending on the role of the personnel that has access to the facility.

Solution

Software module for video analytics enables to detect the absence of the personal protective equipment on the personnel (e.g. hard hat, workwear, safety goggles, nonconductive and work gloves, boots, etc.), and also detect incorrect use of personal protective equipment (e.g. unzipped jacket, rolled sleeves, nonconductive gloves being unused, etc.). When the system detects violation in use of personal protective equipment, the system instantaneously informs about such violation those responsible.

Result

Decrease in a risk of work injuries when performing repair work at distribution stations.

Detection of left opened units of power distribution system

Objective

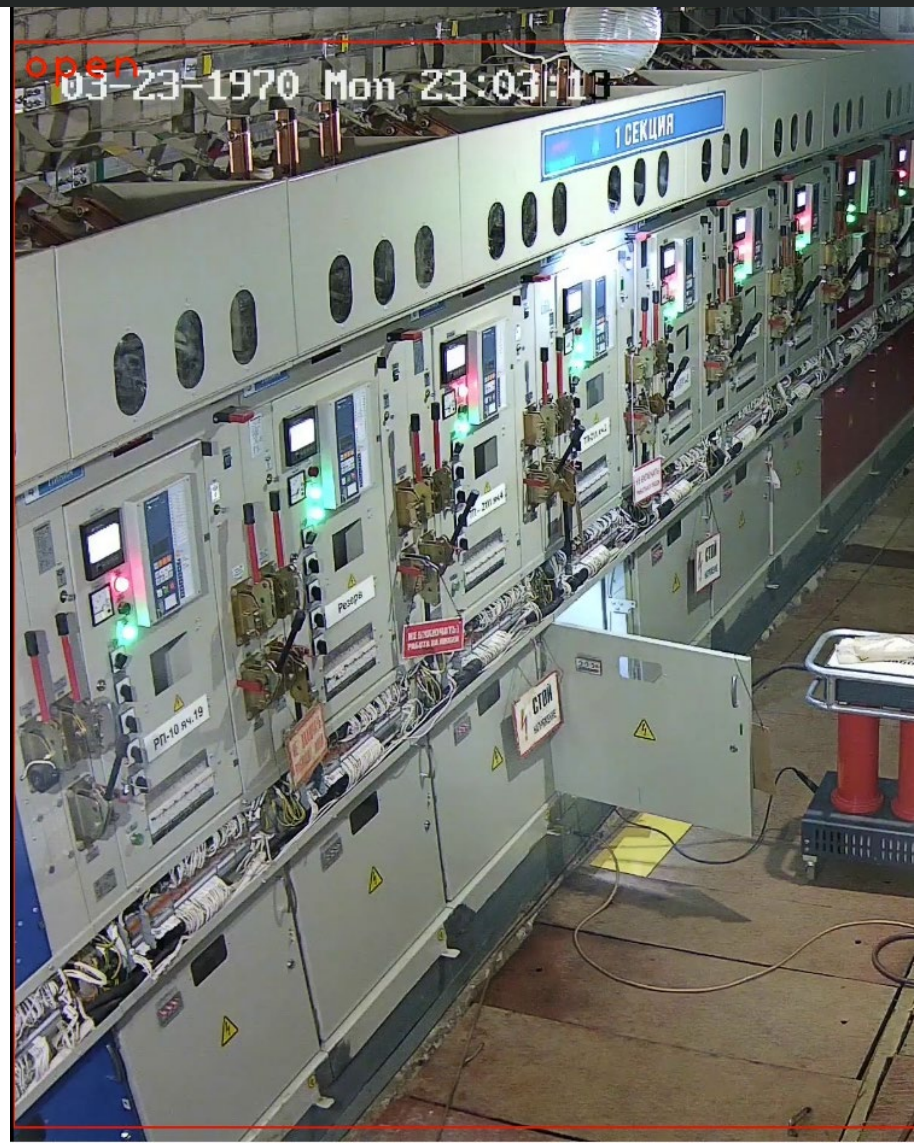
To detect left opened units of power distribution system after completing repair and maintenance work

Solution

Software module for video analytics enables to detect left opened units of power distribution system when the maintenance or engineering personnel is not in the camera frame. When the system detects such left opened units it sends a message to those responsible via an email and Telegram.

Result

Lowering the risk of work injuries at distribution substations.



Detection of smoking on the premises

Objective

To detect smoking on the premises of power substations.

Solution

Software module for video analytics detects a cigarette that is close to a face of a person who is on the premises of distribution or transformer power substation. Any violations are flagged in the system log and send as notification via Telegram.

Result

Decrease in the occurrence of safety hazards at distribution and transformer power substations.

Detection of areas with restricted access due to workplace untidiness

Objective

To detect left objects after performed maintenance and service that restrict access to the space between units of power distribution system.

Solution

Software module for video analytics detects the presence of left tools and components when the maintenance or engineering personnel is not in the camera frame. When the system detects left objects, it sends notification via email and Telegram to those responsible.

Result

Improvement in compliance with industrial safety rules and regulations by the personnel.

About us

Mallenom Systems is a leading Russian company in development and implementation of computer vision systems and industrial video analytics based on machine vision.

Mallenom Systems' areas of activity:

- ✓ Visual control and tracing of manufactured items at production facilities
- ✓ Monitoring and control of vehicle and railway transport
- ✓ Automation of vehicle and railway transport weighing
- ✓ Detection and tracking of people and monitoring their conduct on video

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