Case Study
Reefer Terminal – Port of Savona-Vado

TECHNOLOGIES FOR THE INTEGRITY CHECK OF CONTAINER SEALS

Aitek has developed the system for checking the integrity of the seals of containers in transit at the access gates of the Reefer terminal of the port of Savona-Vado. The solution, one of its kind, allows to control over 40 thousand containers each year, under all operating conditions, simplifying the inspection procedures at the gate.
Remote check of container seal integrity

The six terminal access gates are monitored by 4 color 35x PTZ video cameras. The video cameras are installed on metal poles 4.5 meters above ground to provide the required view of the top and rear of containers, where the seals ensuring the containers are correctly closed are located.

Each video camera is equipped with lights providing night vision, therefore guaranteeing the perfect efficiency of the system under all operating conditions.

The correct closing of the seals can be verified by operators directly from the control center via a web interface, with no need for visual inspection of the container, thus simplifying the inspectors’ work and reducing the time required for performing the vehicle transit procedures at the gate.

Operators can view the images from the video cameras installed at the gates, perform pan, tilt and zoom controls to check the seals, move to any previously-configured presets.

The check procedure, performed when vehicles are parked at the gate to carry out the transit procedure, requires the drivers to set the seals so that they are clearly visible before their arrival at the gate.

Three IP intercom systems (each composed of an external station and a microphone station) are placed at the gates allowing to communicate with the drivers.

If the operator detects seal anomalies, the vehicle is denied access to the terminal and all container inspection procedures are initiated.

The data and images related to each transit are stored in a database, therefore in case of complaints or possible tampering the state of the seals when the container arrived at the gate can be immediately verified by checking the recordings.

Features

- Four color 35x PTZ video cameras
- Two 4-channel video servers
- Six metal iodide projectors
- Three IP intercom systems each composed of an external station and a microphone station
- One 19" 42U rack
- Three operator station PCs provided with 19" LCD monitors
- A software module for the operator interface

About Aitek

Aitek is a leading company in the design and implementation of innovative technological solutions. It designs and implements intelligent systems for transportation and traffic, video surveillance for security, digital signage for communications.

Since 1986 Aitek has consolidated its presence on national and international markets thanks to its continuing partnership with leading companies and its constant attention to technological evolution. Aitek is one of the few Italian companies to have been awarded by the European Union the prestigious IST Prize for technological production.

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