aitek

CASE HISTORY

LIGURIAN PORTS SYSTEM

Video surveillance, video analytics and gate automation for security in ports

Aitek has developed innovative technological solutions for the management of operational areas, protection of assets, and provision of security to passengers in the ports of Genoa and Savona-Vado.

AITEK TECHNOLOGY IN LIGURIAN PORTS

Genoa and Savona are multipurpose ports of call altogether handling as much as 68 million tons in goods and about 2.6 million containers per year, reaching the first positions in a European rank. This network of ports is an important hub in the Mediterranean Sea also for passenger traffic, numbering over 4 million transits including ferries and cruise ships.

The overall integration of Aitek's port technology makes for best customised solutions able to guarantee high standards of security, reliability and automation.

Turin

Milan

Genoa-Prà

Genoa

Savona

Vado Ligure

FRANCE

Mediterranean Sea

Rome

VIDEO SURVEILLANCE

AiVu addresses your port security requirements through HD video-surveillance of quay-sides, access gates, perimeter areas, buildings, warehouses, loading docks and parking lots. The AiVu platform allows for the full management of video-surveillance systems of any size via IP, state-of-the-art video-cameras.

GATE AUTOMATION

Nowadays, a number of vehicle transit entrance/exit procedures to the terminal area still require operator management and handling, thus affecting both time and accuracy of inspections. Sesamo-Gate platform offers a wide range of functionalities for the automatic management of road/rail access gates, offering bespoke solutions that can be specifically tailored to the operational needs and physical constraints of your gates.

VIDEO ANALYTICS

Real-time detection of potential threats is crucial to port-terminal security.
In order to achieve higher levels of security, AiVu video-surveillance systems integrate AiVu-Smart Modules video-analytics applications for real-time detection of such events as intrusions, accidents, spilled loads and more.
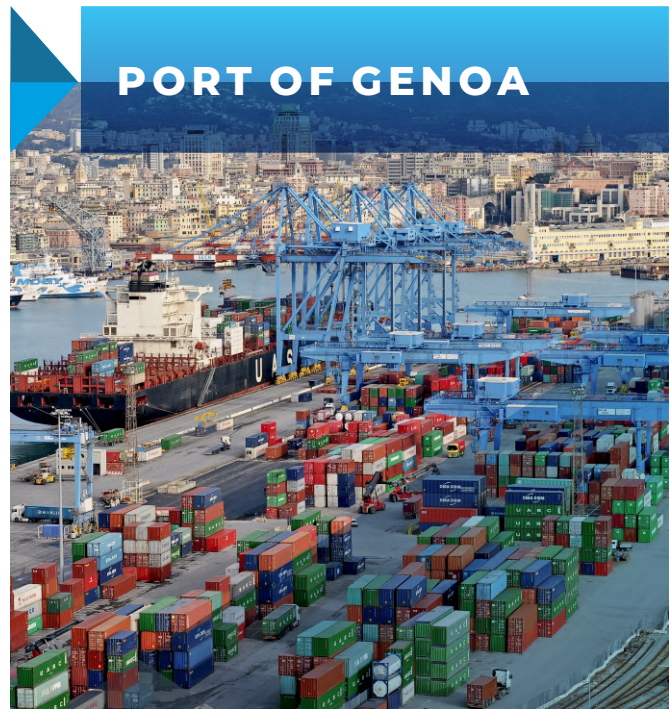
DIGITAL SIGNAGE

TVIP is Aitek's digital signage platform for dynamic communication, effective advertising, passenger information and news flashes in highly-attended locations such as stores, shopping malls, railway stations, airports, cruise terminals, hospitals, museums and more.

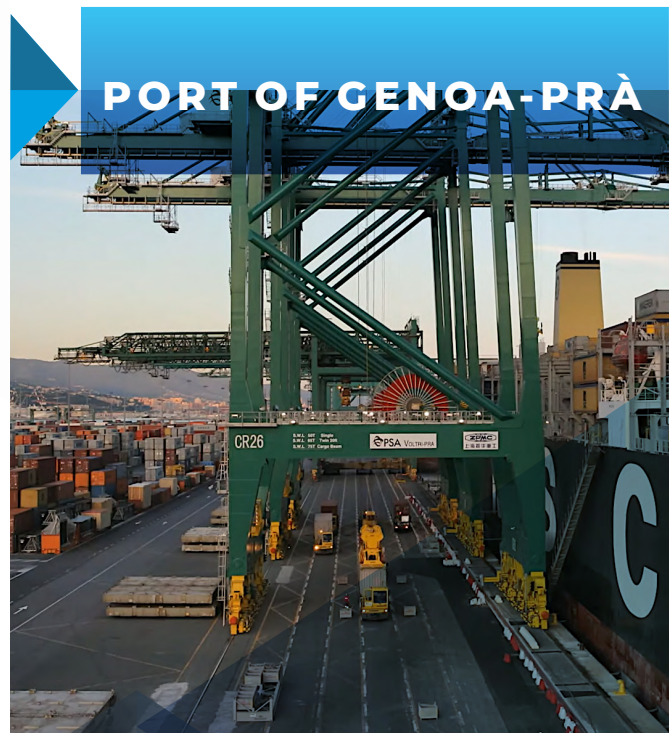# PSA Group > SECH Container Terminal

GATE AUTOMATION SOLUTION

- Management of 2 road lanes

- Automatic license plate recognition for tractor units and trailers

- Recognition of ISO 6346 container codes

- Recognition of ILU codes (Intermodal Loading Units)

- Video recording of vehicle transits for container damage detection

- Management of self-service interactive kiosks at road lanes

- Sesamo-GOS application for the management of transit procedures and integration with Terminal Operating System for data matching

PORT OF GENOA

PSA GROUP > Genoa Prà Container Terminal

VIDEO SECURITY SOLUTION

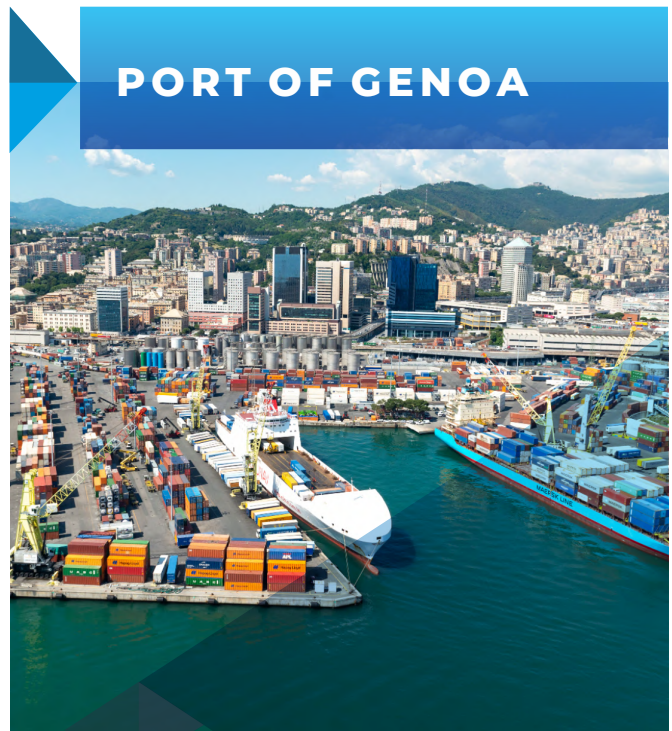- This system manages 120+ cameras positioned at the key points of the terminal to ensure 24-hour monitoring of docks, perimeter areas, gates, operational yards, buildings and parking areas, even during the night and in conditions of poor visibility

- AiVu-VMS Video Management Software for the for access to live / recordings. A web interface offers advanced functionalities for full-system control. Users can view HD footage, perform pan-tilt-zoom (PTZ) operations for full detail display, access recordings to recreate critical events and download sequences for policing purposes

- Integration with a suite of video analytics algorithms developed by Aitek, which process images to detect in real-time events such as intrusions in off-limits areas or inside offices during closing hours, access of people / vehicles to gates, etc.

- Supply of a videowall control application to display up to 64 cameras simultaneously

PORT OF GENOA-PRÀ

aitek

SPINELLI GROUP >
Rebora Terminal

GATE AUTOMATION SOLUTION

- Management of 3 road lanes (2 entry lanes and 1 exit lane)
- Automatic license plate recognition for tractor units and trailers
- Recognition of ISO 6346 container codes
- Recognition of ILU codes (Intermodal Loading Units)
- Video recording of vehicle transits for container damage detection
- Management of self-service interactive kiosks at road lanes
- Sesamo-GOS application for the management of transit procedures and integration with Terminal Operating System for data matching

PORT OF GENOA

SAN GIORGIO TERMINAL
> Gavio Group

GATE AUTOMATION SOLUTION

- Management of 2 in/out road lanes
- Automatic license plate recognition for tractor units and trailers
- Recognition of ISO 6346 container codes
- Recognition of ILU codes (Intermodal Loading Units)
- Video recording of vehicle transits for container damage detection
- Management of self-service interactive kiosks
- Integration with weighbridge system
- Sesamo-GOS application for the management of transit procedures and integration with Terminal Operating System for data matching
- One additional lane for ro-ro operation equipped with Sesamo Profiler application for dynamic and no-contact vehicles surface measurements. Sesamo-Profiler uses laser technology to estimate of the volume and shape of vehicles to be loaded on ro-ro vessels.

PORT OF GENOA

aitek

WESTERN LIGURIAN SEA PORT AUTHORITY

VIDEO SURVEILLANCE OF GATES, PERIMETERS AND BUILDINGS

- Management of 160+ cameras at the port of Genoa and 100+ cameras at the port of Savona-Vado

- Day/night cameras ensure effective all-visibility-conditions monitoring of key areas, perimeters, customs' gates, cruise terminal, buildings, etc.

- AiVu-VMS Video Management Software for the for access to live / recordings. A web interface offers advanced functionalities for full-system control. Users can view HD footage, perform pan-tilt-zoom (PTZ) operations for full detail display, access recordings to recreate accidents and critical events and download sequences for policing purposes

PORT OF SAVONA

COSTA CROCIERE S.p.A. > CRUISE TERMINAL

CCTV, VIDEO ANALYTICS AND PASSENGER INFORMATION

- 50+ cameras for monitoring perimeter areas, entry gates, check-ins. Real-time detection of gatherings, unauthorized access to restricted areas, risky behaviors, unsafe situations, etc.

- AiVu-VMS Video Management Software for the for access to live / recordings. A web interface offers advanced functionalities for full-system control.

- Integration with a video analytics algorithm for real-time detection of social distancing.

- Digital Signage Network: 50+ monitors installed at the the entry gates, boarding areas, check-in desks, welcome desk and waiting areas.

- TVIP-Director software application for the scheduling and broadcasting of multimedia content and service information to the monitors.

PORT OF SAVONA

aitek
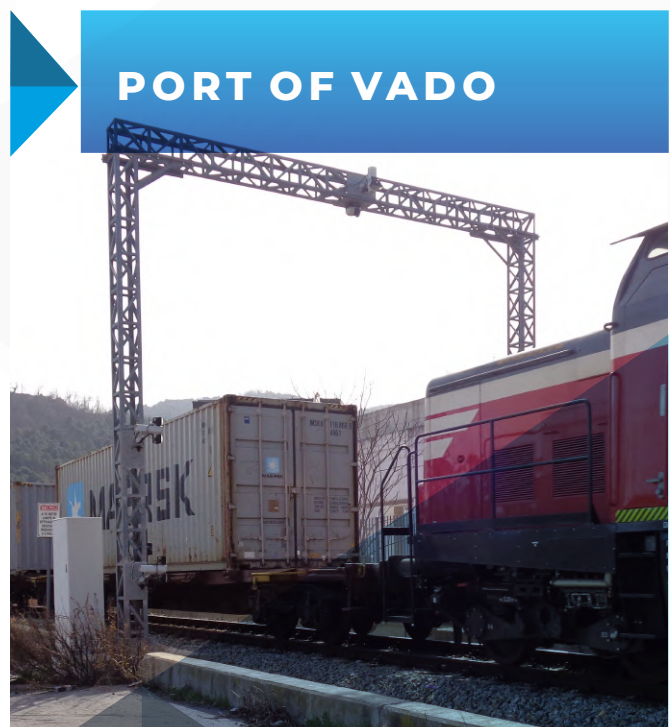
VADO GATEWAY

GATE AUTOMATION SOLUTION >
ROADWAY GATE

- Management of 13 in/out road lanes
- Automatic license plate recognition for tractor units and trailers
- Recognition of ISO 6346 container codes
- Recognition of ILU codes (Intermodal Loading Units)
- HD video recordings of transits
- Management of self-service interactive kiosks at road lanes
- Integration with AiVu video surveillance platform
- Sesamo-GOS application for the management of transit procedures and integration with Port Community Systems and Terminal Operating Systems for data matching

PORT OF VADO

VIO INTERPORTO

GATE AUTOMATION SOLUTION >
RAILWAY GATE

- Automatic recognition of UIC railway wagon codes
- Recognition of ISO 6346 container codes
- Recognition of ILU codes (Intermodal Loading Units)
- Detection of number and type of containers carried on the vehicle
- Sesamo-GOS application for the management of transit procedures and integration with Port Community Systems and Terminal Operating System for data matching

PORT OF VADO

aitek

APM TERMINALS >
REEFER TERMINAL

GATE AUTOMATION SOLUTION

▶ Management of 6 access lanes (four truck in/out lanes and two lanes for cars and ITT - Inter Terminal Transfer). Functionalities:

▶ Automatic license plate recognition

▶ Management of self-service interactive kiosks with intercom and badge reader

▶ Manual opening of the lanes by remote workstation

▶ Integration with Terminal Operating System for the matching of the transit data acquired at the Vado Gateway

PORT OF VADO

APM TERMINALS
Lifting Global Trade

ViO
INTERPORTO DI VADO

PORTS of GENOA
VADO LIGURE ■ SAVONA ■ PRA' ■ GENOVA

Costa

Terminal San Giorgio

GruppoSpinelli
LOGISTICS PROVIDER

PSA SECH

PSA GENOVA PRÀ

aitek

aitek

Aitek S.p.A.
Via della Crocetta, 15
16122 Genova - Italy
Tel. +39 010 846731
info@aitek.it
www.aitek.it