Case Study
Interporto di Padova S.p.A.

AUTOMATION TO SERVE INTERMODALITY
Video cameras, laser scanners and Aitek’s software for the automated management of a railway gate and the real-time acquisition of the ID codes of containers and railway wagons.
Over 40 years of activity, 300,000 square meters of facilities, 275,000 TEUs handled per year make Interporto Padova one of the most important logistics centers in Europe. In such a prominent logistics center the use of reliable technologies able to optimize the control procedures at access gates becomes essential. For this reason, Interporto di Padova SpA entrusted Aitek with the implementation of a railway gate for the automatic control of incoming and outgoing containers and wagons.

Automatic control of containers and railway wagons

This solution employs the software modules of the Sesamo-Gate platform, specifically developed by Aitek to manage the transit control procedures at roadway and railway gates. The over 5500 container trains that every year enter and exit the Interporto of Padova must pass through a free-flow portal placed over the access track, equipped with 5 video cameras for the acquisition of HD images of the surface of containers and wagons and 2 laser scanners for the detection of the beginning of each wagon, the direction and speed of convoys. After image acquisition, the Sesamo-CCR and Sesamo-UIC modules use OCR technology to process images and recognize the ISO6346 container codes and UIC codes of every wagon entering or exiting the gate. Acquired data are sent in real time to Control Room operators, which can verify that the actual composition of the train corresponds to that indicated in the transport documents.

Sesamo-Gate, a successful solution

The great reliability of Sesamo-Gate, the most referenced gate automation solution in Italian ports and dry ports, ensures full operability and maximum accuracy even in harsh environmental conditions. The automated control of gate procedures removes the necessity of having operators on the field, allowing personnel to operate remotely and therefore greatly improving the safety of people, the accuracy of acquired data and reducing the duration of procedures involving vehicles.

Features

- Five Megapixel IP video cameras for acquiring the surfaces of wagons and containers
- Two laser scanners for the detection of the beginning of each wagon and container and of the direction and speed of convoys
- Automatic detection of ISO6346 container codes and UIC wagon codes
- Complete integration with the dry port’s IT and Customs infrastructures

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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