3D detection solution for access control gates

New detection technology for secure, fast and controlled boarding

Thanks to the processing of stereoscopic images from video cameras, each passenger is detected individually as soon as he enters the approach area to the gate.

His movement is analysed so it can be classified by type of transit.

Recognise and analyse the behaviour of travellers before and when they go through the gate and to better analyse fraud and optimise the flow of passengers.

A better solution than infrared detectors

The 3D detection solution makes it possible to discover cases of previously impossible to detect: a person with stroller, a small or a big item of luggage, a child, a person in a wheelchair, etc.

The system is very adaptable, and new situations can be characterised to enhance the different types of crossing. Therefore the opening cycle of the leaves can be adapted on a case by case basis.

For travellers, the transit situation is easier and more secure.

Reliable fraud detection and optimised passenger flow

Cases of fraud with people going through under or above the doors, people close behind each other, side-by-side or in the opposite direction are detected. The information is reported in real time and a visual and audible alert can be issued by the equipment itself.
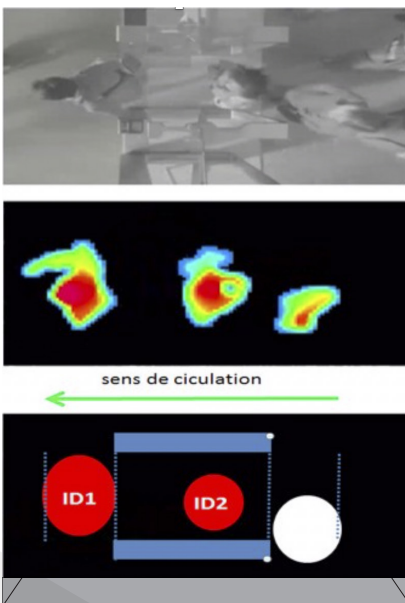
The field of view of the cameras makes it possible to detect the people approaching the gate. If there is high traffic, depending on the number of people crossing the gate and the number of travellers detected in the approach area, the gate can automatically switch from an anti-fraud mode to a permissive mode, to ease the passage of travellers.

Accurate and real-time counting

With the 3D detector, the passenger is followed from his approach to the exit of the gate: the round trips are counted as a single trip, the children are distinguished from an adult or an item baggage and several people crossing the gate at the same time are all personally identified and counted.
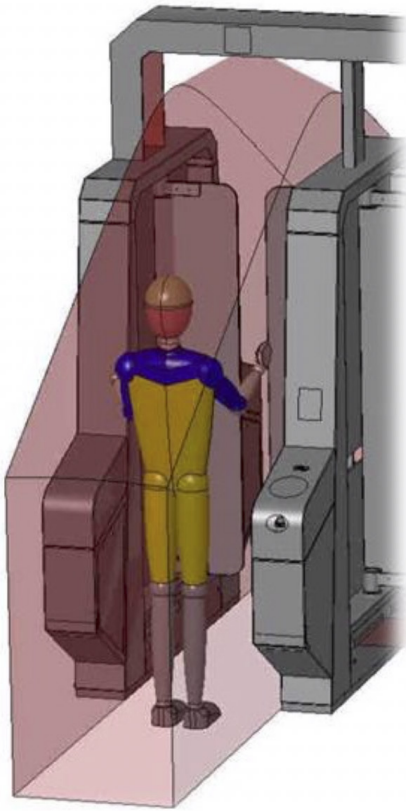
The counting accuracy of the 3D detector is 25 times higher than that of the 2D detectors.

Fraud cases can be mapped based on the information obtained.

Thanks to the large field of view and the precision of the detector, access controllers can anticipate and react to adapt automatically to a situation change.

Optimised installation and maintenance costs

By replacing the infrared sensor strips with a single stereoscopic camera, the reliability and maintenance of the system are greatly improved: the detector itself is more reliable, the number of electronic components and cables are reduced and the connectors used are all standard.

Gateways designed and customised in complete freedom

Our access controllers are fully designed by our teams, and we meet the expectations of clients that want to integrate 3D detection on a case by case basis with great regularity.

Doors, motors, signage, materials, validation module: all the components of our gates can be selected according to the technical constraints and design chosen by our clients.

On the design side, the removal of the sensor banners gives free rein to more refined technics, finer styles.

On the other hand, in some cases the wiring can be done in the arches were the cameras are located, thus dispensing with the production of cable channels and consequently reducing the costs related to the installation works.

As of 2018, 3D detection gates will be installed in Île-de-France SNCF stations.

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