



AI-RETAIL-DEEP

People counting, crowding estimate,
gathering, social distance assessment



A.I. Tech
The Vision of the future. Now.





AI-RETAIL-DEEP makes it possible to estimate the number of people present within an area and to count the number of people crossing a virtual line; this is achieved by using the most advanced vision and artificial intelligence algorithms, combined with a deep neural network capable of detecting the people within a scene. It also allows an alarm to be generated in the event of overcrowding situations [i.e. the number of people in an area exceeds a certain threshold], in the event of gatherings or where the social distance between people is not respected.

AI-RETAIL-DEEP can be used both in indoor and outdoor environments, guaranteeing accuracy and recall of 90%.

USE CASE

Where can we use AI-RETAIL-DEEP?

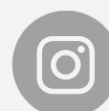
AI-RETAIL-DEEP is the video analytics solution designed to meet a variety of needs that may arise in buildings, museums, restaurants, shops, shopping centres, airports, stations or in various areas of the city.

AI-RETAIL-DEEP is the key tool for marketers to understand how guests move around their sales area, determining the most crowded and the least crowded areas, through people counting mechanisms, crowd estimation or even assessment of the occupancy density of an area.

At the same time, it is the ideal tool to perform checkout management, as it can be used to minimise waiting time in queues and thus improve the customer experience: for example, it is possible to detect the number of people waiting to make a payment and alert staff to open a new checkout, or to perform the automatic single checkout management mechanism.

AI-RETAIL-DEEP is also the tool needed to monitor crowds on platforms in train stations or at gates in airports, in order to automatically detect crowds and advise people to observe social distances.

Thanks to the possibility of operating reliably in both indoor and outdoor environments, including in combination with existing surveillance cameras as well as with new generation cameras, **AI-RETAIL-DEEP** is also a must-have tool for the smart management of a city, for which on one hand it is necessary to know how citizens move around the city, and on the other to provide citizens with a tool to support them in ensuring that they meet social distancing regulations.





ARCHITECTURE

Where can we install the app?



Edge



Embedded



Server



The detailed list of specific compatible platforms can be reached via the link on the right.

INTEGRATION

Where can we notify the events generated by the app?

Events can be sent to external servers using over 20 different mechanisms, which include third-party VMSs, standard protocols (such as HTTP, FTP, MODBUS and MQTT) and also A.I. Tech proprietary protocols, which allow the notification of events to the dashboards of A.I. Tech. More information via the link on the right.

