

Airports



Typical issues in the airports:

Ensuring safety and security inside the terminals and on runaway:

- Anti-terrorist protection;
- Detection of the people wanted by the police;
- Preventing terrorist attacks (detection of abandoned objects).

Improving tenants` performance

- Prevent cases of thefts or frauds made by the employees in the shops;
- Acquire statistics about visitors profile and economic performance in the shops;
- Detect and prevent queues, empty shelves, absence of employees.

Ensuring compliance with measures for prevention of spread of COVID19:

- Detection of passengers that are not using face masks inside the terminal;
- Control of compliance with social distancing.

Improve travellers` experience

- Control airport staff performance;
- Detect absence of free taxis or trolleys.



Ensuring safety and security inside the terminals and on runaway



Left object detector

- Detects abandoned and forgotten things in the areas monitored by the cameras;
- Recognizes the class of the abandoned object (suitcase, backpack, box, bag, duffle bag, etc);
- Detects the owner of the abandoned object in the area.



Face Recognition

- Detects people wanted by the authorities (e.g. criminals, terrorists);
- Sends automatic alarms to security when such people are detected.



NeuroDetector

- Allows to detect intrusion into a protected area by a stranger, a car or a bicycle with the advanced filters for no false positives;
- Can be used for perimetral protection of the runaway zone.



Ensuring safety and security inside the terminals and on runaway

TRASSIR AND ACCESS CONTROL SYSTEM (ACS) INTEGRATION

Provides you with the additional advantages to ensure the security

3 types of integration:



Getting the information about all the events from the ACS and database searching: verification in manual mode



Automatic verification of a person using Face Recognition video analytics at the access point

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Two-factor authentication at the access point using Face Recognition technologies and access cards



Ensuring compliance with measures for prevention of spread of COVID19

Face mask detector

TRASSIR Face Mask Detector is an intellectual video analytics designed to control the compliance with the World Health Organization requirements to wear personal protective equipment during the viral disease pandemic.

- Neural video analytics detects faces in a frame and then determines presence or absence of the mask on a face;
- Once a person not wearing a face mask is detected a notification is generated in TRASSIR client;
- There is an option to set up notifications via loudspeakers and to define logic of behavior of doors or turnstile;
- No false alarms in regard to people whose faces could not be viewed in a frame;
- An operator can set detection areas in a frame;
- A notification may be sent to mail, as a text message or via Telegram-bot;
- It is possible to extend standard functionality using scripts.





Ensuring compliance with measures for prevention of spread of COVID19

Social Distance Detector

Social Distance Detector is an intellectual video analytics designed to monitor the distance between people in waiting lines and in public places.

- It detects the cases when people fail to comply with social distancing requirements;
- The alarms may be displayed on the operator monitor;
- A notification may be sent to mail, as a text message or via Telegram-bot;
- Sound notifications may be activated.







Analyze customers flow within the store

Get the information about the absence of the employees at the workplace and keep records of working time of the staff

Get all the necessary data and automatically analyse sales conversion by days/hours/weeks Detect empty shelves and receive data about insufficient quantity of goods on the shelves

Detect the number of people in the queue in a timely manner and the number of free shopping carts at the entrance to the store Identify the activity of visitors and define the places where people stay longer



Face Analytics

- Counting of unique visitors and demographic audience analysis;
- Visitor return analysis;
- Tracks (motion trajectory) of the individual customers. It is also possible to monitor motion trajectory of a certain group of visitors in the outlet providing demographic statistics;
- Determination and automatic grouping of people making joint purchases (for example, determination of family members coming together to the store as a group of people, not a single customer).

People Counter

 People Counter in combination with ActivePOS cash control video analytics effectively complement each other. ActivePOS detects the number of punched checks at the checkout, People Counter counts the number of visitors of the outlet. Aa a result, you receive automatically calculated sales conversion which is one of key indicators of the outlets efficiency.

Neuro Counter

- Neuro Counter video analytics based on neural networks is designed for counting the objects (people, cars, bicycles) entering the specific area;
- This intellectual video analytics allows the retailers to exclude their employees from the statistics based on the color of clothes of the staff members.



ActivePOS

Professional software for intelligent control of cash transactions with detectors (more than 60 scenarios):

- Fraud of cashiers and buyers (intentional damage);
- Cashier errors (unintentional damage);
 - Identification of non-compliance with store service standards, and violations of the rules of settlement and cash services, determined by law.





Queue Detector

- Queue Detector video analytics allows you to monitor the situation with the queue length at the cash register of the shops. This solution automatically counts the number of people at the queue. If the number of people is exceed the pre-defined number that is defined in the settings the system will automatically send a notification. It allows the manager of the point of sale quickly respond to the situation and attend to customers by opening a new cash register in a timely manner;
- Queue Detector improves standards of service and increase customer loyalty by showing people the ongoing efforts to control queues;
- The module allows to receive reports about peak hours and approximate time spend in queues by customers.





Staff Tracker

- Staff Tracker video analytics is designed for offline evaluation of work performance of the staff members (salespersons, managers, promoters). Staff Tracker provides you with the monitoring of the desired number of the staff in different service zones. It allows you to detect the staff members by color of their uniform (t-shirts or jackets);
- You receive the information about the service time of the customers. Staff Tracker creates a report about the time when the customer enters the store and the time when the employee comes to the this customer. For the quickly response you can use the real-time notifications by e-mail or Telegram.

Shelf Detector

- Shelf Detector video analytics allows you to monitor the fullness of the store shelves with goods and is used to timely forecast of demand for certain goods. It automatically informs employees of the store about the absence or insufficient quantity of goods on the shelves;
- Shelf Detector video analytics allows to quickly detect the absence or small amount of shopping carts at the entrance to the store. Thus, the customers will not leave the store without making any purchase just because they couldn't find free shopping cart for goods;
- The module has the functionality of generating reports on the status of shelves at specified intervals. Thanks to the reports, the administration of the shop can determine/predict the level of demand for certain groups of goods and track the performance of employees responsible for filling the shelves;
- Video analytics reports are available for the export to the external system.



Heat Map on Map

- Heat Map on Map: allows to define the places where people stay longer. This analysis can be used to detect the prime location for placing "eye stoppers" in order to attract more attention to the particular goods, promotions etc.
- Movement map: allows you to create vector map of the customers movement at the store.
- Heat Map on Map allows you to understand and analyze the activity of visitors at the store. And most importantly, the data provided by TRASSIR Heat Map On Map allows you to find the best ways to place goods on the way of the main flow of customers directing them to the most profitable trajectories of movement.





Improve travellers` experience

Workplace detector

- Allows to set the work area and work schedule of the employee airport's, as well as the allowable time for the employee to be away from the workplace;
- Generates a notification if an employee's absence from the workplace has exceeded the allowed time;
- Allows to control working time of employees in airport's offices, shops, check in, boarding areas.

Parking

- Allows to control the number and time of stay of vehicles in the airport's parking area;
- Detect violation of traffic rules or parking in the prohibited zones;
- Creates a list of cars with the exact time and the date of entry/exit;
- The module could be used to issue parking bills to car owners;
- Can be used to detect amount of free spaces in the parking lot.

Improve

- Detect amount of travellers waiting for taxis in queues;
- Send alerts to taxi companies to send more cars at the arrival zone if there isn't enough taxis in the airport.



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- Hardware Catalog



Video Management Software Catalog



Success Cases