



TRASSIR[®]

CCTV ECOSYSTEM

TRASSIR TODAY

20 YEARS

OF EXPERIENCE IN CCTV
SURVEILLANCE

5000+

LOYAL CUSTOMERS
ALL OVER THE GLOBE

30%

COMPOUND ANNUAL
GROWTH RATE

35

COUNTRIES
OF TRASSIR
INSTALLATIONS

3 R&D
CENTERS



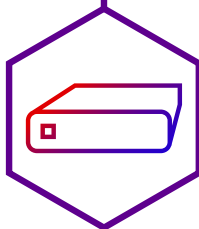


CCTV ECOSYSTEM

6in1



CCTV
CAMERAS



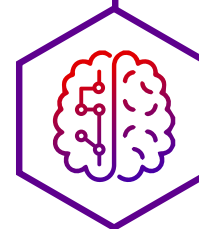
VIDEO
RECORDER



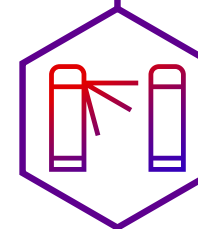
CLOUD
SERVICE



SOFTWARE



NEURAL
ANALYTICS



ACCESS
CONTROL
SYSTEM

TRASSIR: WIDE RANGE OF SOLUTIONS FOR VARIOUS INDUSTRIES

BANKING



WAREHOUSES



HORECA



EDUCATIONAL INSTITUTIONS



RETAIL



MANUFACTURING ENTERPRISES



SMART CITY



OUR CLIENTS AND PARTNERS ACROSS THE GLOBE



CERTIFICATION

The TRASSIR equipment meets the EU safety and other applicable requirements (CE certification).

- Electromagnetic compatibility (EMC)
- Low Voltage Directive (LVD)
- RoHS Directive
- Radio Equipment Directive (RED)

Additional certificates can be obtained upon the specific customer's case or the partners' request.





TRASSIR: THE **RIGHT CHOICE**

We support our clients and partners through all stages of work. Technical specialists will consult and help to solve problems related to our systems and tech environment in direct interactions.

PROJECT SUPPORT

TRASSIR professionals build complete solutions for your projects

ADVERTISING SUPPORT

Printed and electronic promotional materials are available to the partners

PRE-SALE DEMO

Our engineers can demonstrate system functions remotely

TECHNICAL SUPPORT

Agile customer service and direct response to complaints

TRAINING

TRASSIR: BASIC ANALYTICS

By purchasing licenses for the device, TRASSIR users get access to a large list of features. Our solutions focused on simplifying the work with the system and automatize actions of the operator.



**TRASSIR
HEATMAPS**



**TRASSIR
ACTIVESEARCH**



**TRASSIR
EVENTSEARCH**



**TRASSIR
CLIENT**



**TRASSIR
SABOTAGE DETECTOR**



**TRASSIR
MOBILE CLIENT**



**TRASSIR
FIRE & SMOKE**



**TRASSIR
SOUND DETECTOR**



**TRASSIR
PLANS**



TRASSIR: BASIC ANALYTICS

TRASSIR HEATMAPS

Trassir HeatMaps helps increase attentiveness of operator via showing colored trail of each moving object. Colored trail disappears in time.

TRASSIR ACTIVESEARCH

Trassir ActiveSearch - for interactive motion search video archive in any selected zone of a frame.

TRASSIR EVENTSEARCH

Trassir EventSearch - for interactive event search based on system log.

TRASSIR SABOTAGE DETECTOR

Trassir Sabotage Detector - video analytics, that detects sabotage: defocusing effect, field of vision changing, object-glass closing or light striking, connection fault, signal losing. Incident reaction tuning capability, for example: audio signal and/or message, alarm, contacts control.

TRASSIR FIRE & SMOKE

Trassir Fire & Smoke video analytics that detects fire and smoke. Incident reaction tuning capability, for example: audio signal and/or message, alarm, contacts control.

TRASSIR SOUND DETECTOR

Trassir Sound Detector - allows to detect loud sound, start recording based on sound threshold before motion starts.

TRASSIR PLANS

Trassir Plans - Multi-level maps software module for Trassir. Map reflects cameras, servers, other system objects.

TRASSIR MOBILE CLIENT

Trassir Mobile Client - mobile applications for remote connection to Trassir servers directly via IP address or via Trassir Cloud. Live video, archive access, PTZ, sound and other capabilities.

TRASSIR CLIENT

Trassir Client -Software application for remote access to Trassir servers. Supported OS: Windows, Linux, MacOS.

SOLUTIONS FOR INDUSTRIES

ANTI-COVID SOLUTIONS

Intelligent video analytics to respond to pandemics



TRASSIR Social Distance Detector

was designed as a response to the COVID-19 pandemic for keeping social distance while in a crowd.

- Customized set up of the appropriate distance
- Alert system via notification bars, sms
- Speakerphone notifications



TRASSIR Face Mask Detector

helps control if people are wearing protective masks in public areas.

- Alert system via notification bars, sms
- Speakerphone notifications
- Access lock if synchronized with doors or turnstiles

TRASSIR SOLUTIONS: RETAIL

Intelligent cash control video Analytics

Trassir Active POS

helps bring down both planned and unplanned POS losses

50+

active scenarios

Versatility:

supermarkets | restaurants
gas stations | pharmacies
fast food cafes |
boutiques | etc.

**10+ available
live reports:**

- employees' KPI
- cash transactions' KPI
- the amount of losses

**Customization
available upon
request**



CONNECTED TO THE ACTIVEPOS THE VIDEO ANALYTICS MODULES WILL EXPAND THE CAPABILITIES OF ANALYTICS AND CONTROL:

- Store traffic monitoring
- Customer flow analysis
- Automatic time sheets
- Automatic sales conversion report
- On-shelf availability control
- Employees' presence in the workplace control
- Queue monitoring
- Customer activity and places of interest monitoring

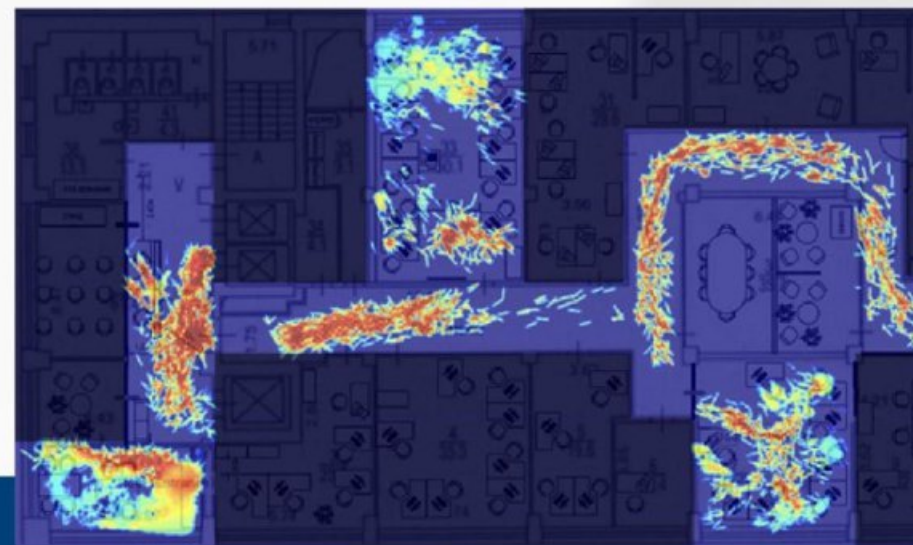
TRASSIR SOLUTIONS: RETAIL

Improve your business with the intelligent video analytics



TRASSIR Shelf Detector enables intelligent video analytics based on neural networks designed to spot empty/occupied shelf spaces.

- Shelves merchandising monitoring
- Out-of-shelf notification
- Automatic reporting to forecast the customers demand on certain SKUs
- Automatic monitoring of the staff performance



Heat Map on Map is an advanced thermal image analysis technology.

- **Kinetic map** - shows the areas with high human traffic flow
- **Stationary map** - shows the areas where people are more likely to stop
- **Trajectories** - the approximate movement direction on the map

TRASSIR SOLUTIONS: TRANSPORTATION

AUTO TRASSIR IS DESIGNED TO AUTOMATICALLY RECOGNIZE LICENSE PLATES ONCE CAPTURED BY CAMERAS.

- ✓ High accuracy of license plate recognition
- ✓ Defines the vehicle classes: motorcycles, passenger cars, minivans/vans, trucks, buses.
- ✓ Defines two-line numbers
- ✓ Recognizes license plates from difficult angles

APPLICATION:

To monitor/control the in-/outcoming vehicle flow (public and private parking lots or garages, checkpoints)

To control automobile traffic at all types of roads

THE MODULE'S CAPABILITIES MAY BE ENHANCED BY INTEGRATING IT WITH THIRD-PARTY SYSTEMS (ACCESS CONTROL SYSTEMS, VIDEO AND AUDIO CONTROL) AND EQUIPMENT (BARRIERS, ACTUATORS, ETC.).



MANUFACTURING: TRASSIR SOLUTIONS

Video analytics controls help meet safety rules



Trassir HardHat Detector enables HSE compliance for industrial and other manufacturers and construction projects.



Trassir Wear Detector is an analytical module detecting if staff wear their workwear based on the garment color.

- Notification system: email, sms
- High accuracy object recognition
- Definition of hardhats and clothes colors
- Customization available upon request
- Various color classification for different types of employees

TRASSIR SOLUTION: PUBLIC AREAS



Face recognition - intelligent face recognition and search module based on a pre-configured database of people (residents, staff, etc.).

- ⦿ Prevent access of undesirable people to the facility;
- ⦿ Detects special guests (VIP) to improve the customer service.

APPLICATION:

Hotels and Restaurants | Schools
Clinics | Sport facilities | Banks



Integration TRASSIR video surveillance system with ACS (Access Control System) provides the client with an integrated ACS will help you to keep track of all events with time reference: each check-in to the parking lot and every passage to the hotel room will be recorded and stored in the archive.

- ⦿ Receive all the movement statistics immediately for both the hotel guests and the staff;
- ⦿ Quickly access to all the information about the latest cases of entering the hotel room;
- ⦿ Set the desired reaction on specific events using the built-in TRASSIR system of rules (scripts).

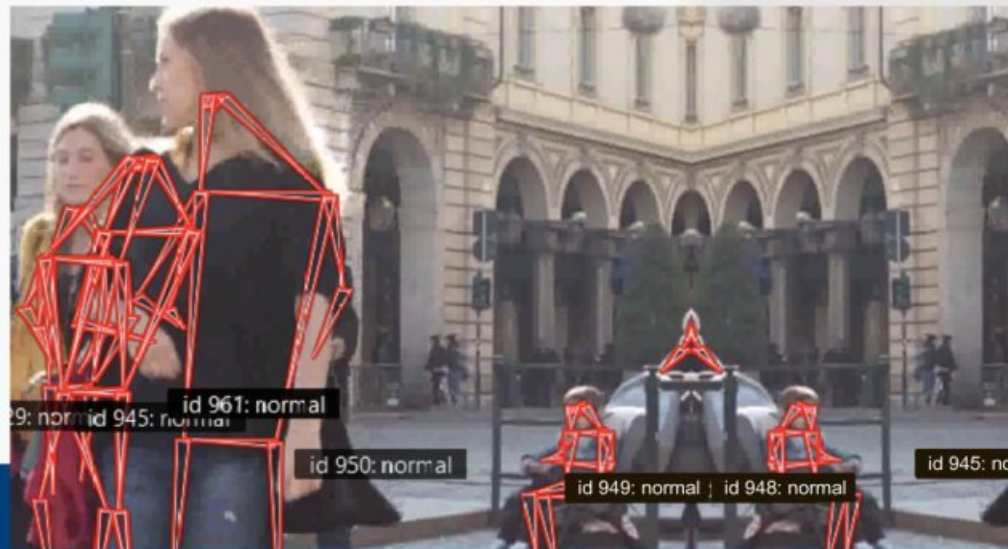
TRASSIR SOLUTION: PUBLIC AREAS



The abandoned object detector is designed to detect abandoned and forgotten things left in the areas monitored by cameras. The detector has the ability to determine the class of the abandoned object: suitcase, backpack, box (and objects similar in shape), bag, duffle (large sports bag) and bag (usually a small woman's bag).

APPLICATION:

Airports | train stations | streets



Neural Pose Detector allows to detect different people's postures and classify them. For instance it helps to track a non-typical behavior of people at ATMs, falls of people in hospitals or nursing homes, raising hands up in an armed attack.

Recognition of the following set of poses is currently supported:

- sitting
- lying
- raised right hand
- bending over
- raised left hand
- both hands raised

All other postures are classified by the detector as "normal posture".

**COMPLEX
SOLUTIONS**

COMPLEX SOLUTION: TRASSIR DEFENDER

TRASSIR DEFENDER CONSISTS OF:

HARDWARE AND
SOFTWARE COMPLEX

CLOUD SERVICE

VIDEO MONITORING
CENTER

MOBILE APPLICATION

COMPLETE CUSTOMER SOLUTIONS:

- Video surveillance system development
- Installation organization and equipment configuration
- Handling and verifying all the alarms
- Calling the Rapid Response Team (RRT)
- Technical support

Violation prevention

Two-way communication with the intruder

No false positives

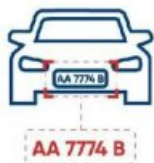
Proper verification and artificial intelligence based on deep learning

Cost saving up to 85%

Installed video surveillance and security processes outsourcing reduces the number on security staff and operational expenses

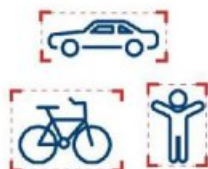
COMPLEX SOLUTION: SMART CITY

ANYTHING CAN HAPPEN IN A LARGE CITY, EVERY MINUTE OF EVERY DAY. IT'S IMPOSSIBLE TO BE EVERYWHERE AT ONCE, AND DEFINITELY IS A WASTE OF TIME AND POLICE FORCE. TRASSIR DELIVERS A COMPLEX SOLUTION TO ENSURE EVERYTHING IS UNDER CONTROL.



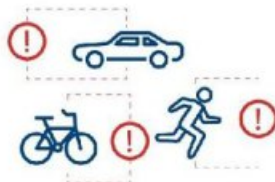
AUTOTRASSIR

License plate recognition module



TRASSIR NEURO DETECTOR

Determines – detects prohibited visitors (people, cars, or bicycles) within protected areas



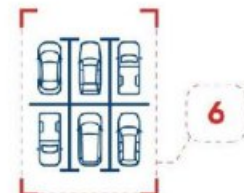
TRASSIR DIRECTION DETECTOR

Detects an object's movement in the prohibited direction (people, cars or bicycles)



TRASSIR ABANDONED OBJECTS

Detects abandoned and forgotten items that potentially threatening the city security.



TRASSIR PARKING

Counts the number of vehicles, as well as the time spent in the parking area

- Complete automated video monitoring of large areas: streets | parks | public | buildings | squares
- High accuracy recognition
- Open system, compatible with legacy equipment

COMPLEX SOLUTION: TRASSIR INTEGRATION WITH ACCESS CONTROL SYSTEM



ACCESS CONTROL

- Customized rules for access authorization and restriction
- Multi-factor authentication: complex algorithms for human identification
- A convenient smart alert system



MONITORING

- Real time supervision with access from any part of the world
- History of all events and operator's actions



VIDEO ANALYTICS

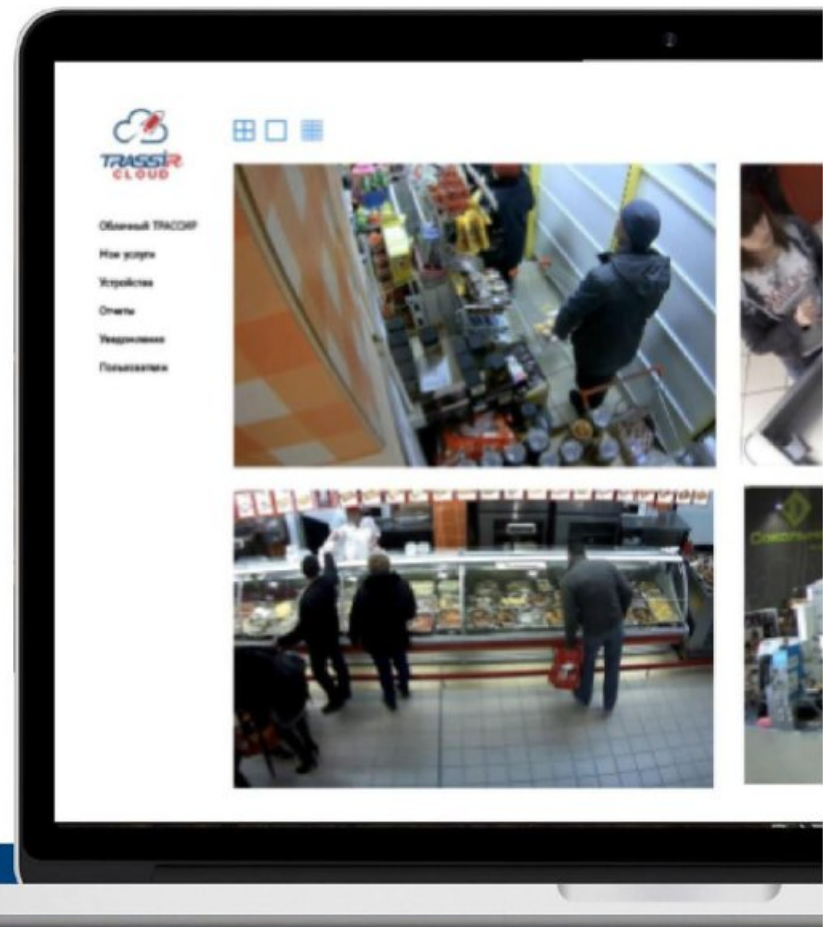
- Face recognition, employee time record keeping, crowd detection, face masks and uniform recognition
- Non-contact access to the facility of the guests and employees in the current pandemic situation
- Regular reporting to prevent the future violations

TRASSIR CMS

TRASSIR CMS is a professional cloud-based web service with the record protection functionality.

MAIN ADVANTAGES:

- ✔ Supports an unlimited number of IP-cameras and video servers.
- ✔ instant alerting: e-mails or push alerts.
- ✔ Archive video storage with customizable archive depth.
- ✔ Exports video archive to the file. Video archive is stored at the Cloud and can be downloaded to any device.
- ✔ Private Cloud installation for companies that require independent local-based video surveillance.
- ✔ Double-stream archive record: main and sub stream. Stream back-up allows to save all data even with low-speed or unstable connection.



ANY TIME. ANYWHERE

Access the system from a mobile device or desktop:

● WWW.CLOUD.TRASSIR.COM ● TRASSIR APP: ANDROID | IOS ● CLIENT FOR WINDOWS | LINUX | MACOS



Contacts

 trassir.com

 welcome@trassir.com

Hardware catalog



VMS Catalogue



Success stories

