



Reliable Ecosystem for Business Centers

Сентябрь 2021

TRASSIR SOLUTIONS

Easily build a single security complex and manage all systems from a single interface

Fast and easily design security system

- Assistance in choosing equipment to meet design requirements
- TRASSIR-based integration with video surveillance, fire alarm system, ACS, and intercom

Fast to set up, easy to use

- Flexible configuration of response algorithms for each type of event
- Intuitive and fast search for events in the archive

Individual customization

- Any camera customization is available: from color to form factor
- System functionality is expendable through scripts

Less problems after installation

- Immediate technical support, warranty and post-warranty service
- Fast replacement in response to equipment failure

Comprehensive management of a business center through security and efficiency monitoring ecosystem

Improved manageability of a business center

Management company

- Access control for employees and visitors
- Control of key parameters of the building
- Optimizing spaces to increase income
- Personnel quality control
- Reduced security costs and penalties

Total control over events

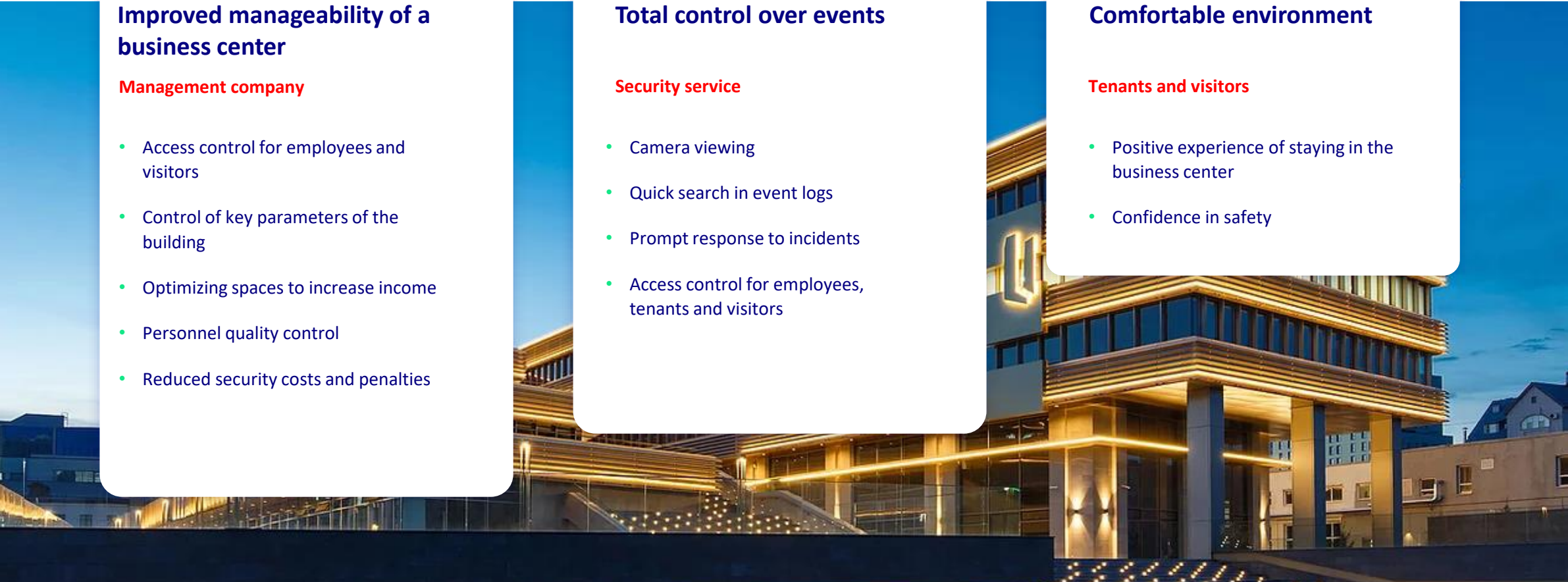
Security service

- Camera viewing
- Quick search in event logs
- Prompt response to incidents
- Access control for employees, tenants and visitors

Comfortable environment

Tenants and visitors

- Positive experience of staying in the business center
- Confidence in safety



Improves space safety

Surveillance and recording of situations

Capabilities

- Preventing situations that pose danger to employees and visitors (fire, terrorist attacks)
- Surveillance of personal belongings left unattended
- Reducing the risk of theft and unlawful acts

Solution

- **TRASSIR Fire & Smoke Detector** is a module that detects fire and smoke
- **TRASSIR Neuro Detector** is a module that detects and classifies objects
- **TRASSIR Left Object Detector** is an intelligent module that detects left objects
- **TRASSIR Theft Prevention** is a module that prevents thefts
- **TRASSIR Pose Detector** is an intelligent module that detects unwanted behavior based on human motions and behavior algorithms



Controls all movements in the business center

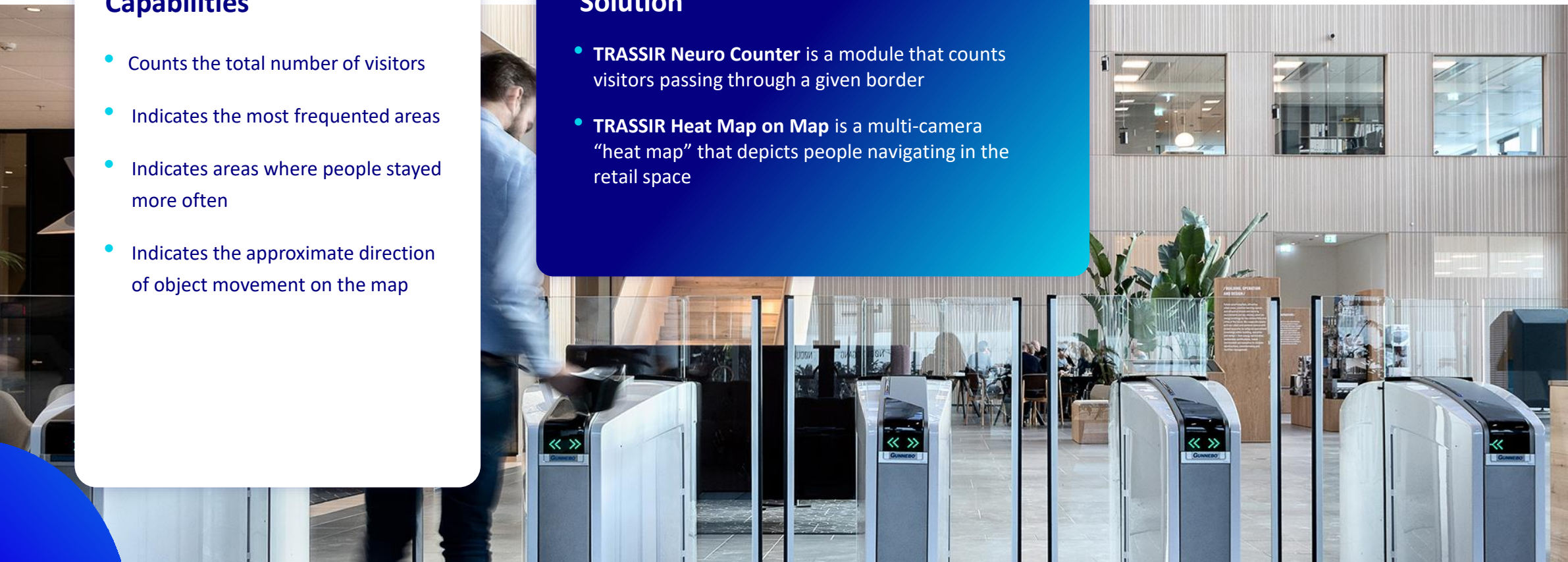
Controlling the flow of people

Capabilities

- Counts the total number of visitors
- Indicates the most frequented areas
- Indicates areas where people stayed more often
- Indicates the approximate direction of object movement on the map

Solution

- **TRASSIR Neuro Counter** is a module that counts visitors passing through a given border
- **TRASSIR Heat Map on Map** is a multi-camera “heat map” that depicts people navigating in the retail space



Increases freedom of movement

Access for tenants

Capabilities

- Access control and management system by card, PIN code, fingerprint, face recognition according to a specified schedule
- Distribution of access levels to the territory and premises
- Tracking a specific person that moves on the business center territory

Solution

- **TRASSIR ACS** is a proprietary access control and management system based on the TRASSIR platform
- **TRASSIR Face Detector** is TRASSIR additional module for face detection and tracking



Simplifies the process of registering guest passes

Visitor access

Capabilities

- Quick registration of passes
- Distribution of access levels to the territory and premises
- Search by gender and age in the video archive
- Tracking a specific person

Solution

- **TRASSIR ACS** is a proprietary access control and management system based on the TRASSIR platform
- **TRASSIR Face Recognition & Face Analytics** is a face analysis module for recognizing and searching people using a pre-configured database. Includes demographic analysis, race recognition, facial attribute identification
- **TRASSIR Active Search** is an additional module of the TRASSIR software for quick and easy search in the archive
- **TRASSIR Face Detector** is TRASSIR additional module for face detection and tracking



Provides quick access to the parking lot

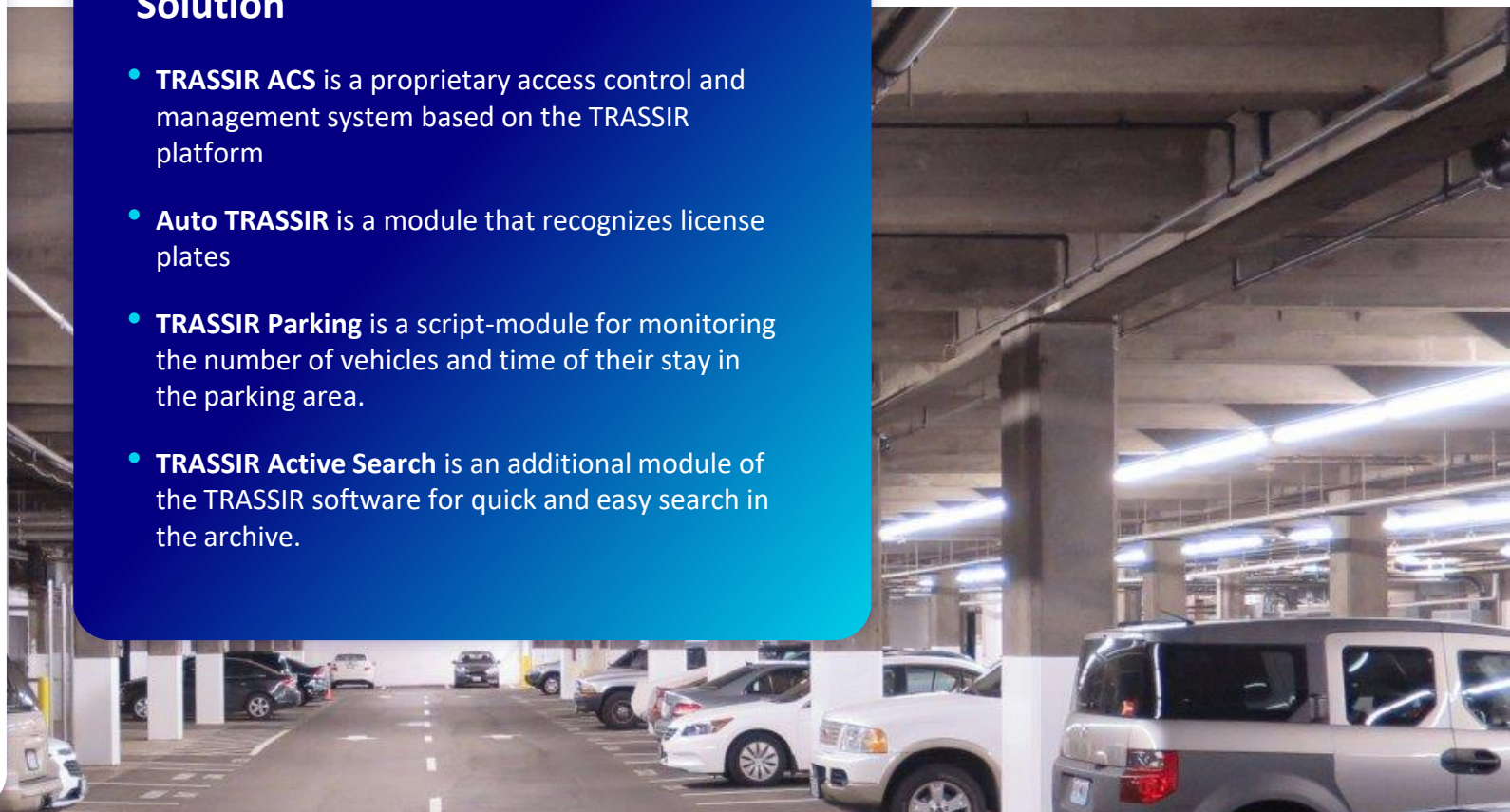
Automatic parking access

Capabilities

- Control of entry/exit of vehicles from the territory of the business center, parking lots, checkpoints
- Automatic barrier control for listed vehicles
- Calculating free parking spaces
- Simplified parking entry for employees
- Prompt incident investigation

Solution

- **TRASSIR ACS** is a proprietary access control and management system based on the TRASSIR platform
- **Auto TRASSIR** is a module that recognizes license plates
- **TRASSIR Parking** is a script-module for monitoring the number of vehicles and time of their stay in the parking area.
- **TRASSIR Active Search** is an additional module of the TRASSIR software for quick and easy search in the archive.



Increases control over the work of personnel

Service personnel management

Capabilities

- Collecting statistics on the number of employees in certain areas;
- Tracking an employee that moves in the building;
- Access control to service rooms.

Solution

- **TRASSIR Staff Tracker** is a module that allows to measure the quality of personnel work: sellers, promoters or managers in offline retail
- **TRASSIR Heat Map on Map** is a multi-camera “heat map” that depicts people navigating in the retail space
- **TRASSIR Face Detector** is TRASSIR additional module for face detection and tracking
- **TRASSIR Face Recognition** is a face analysis module for recognizing and searching for people using a pre-configured database.



Helps comply with pandemic security measures

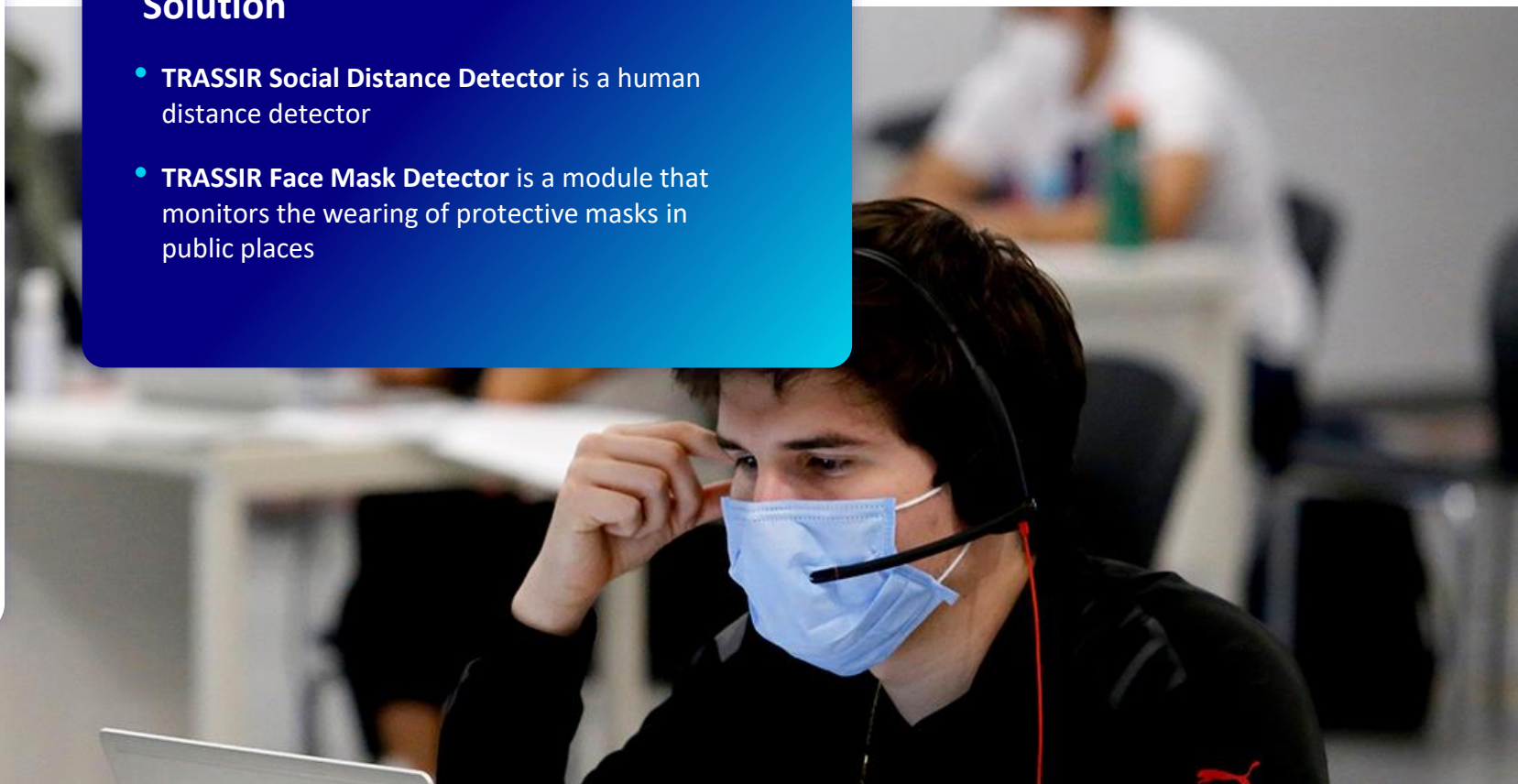
Control of rules

Capabilities

- Tracking violations of distance requirements between people
- Monitoring compliance with the mode of wearing personal protective equipment
- Reducing the number of penalties for non-compliance

Solution

- **TRASSIR Social Distance Detector** is a human distance detector
- **TRASSIR Face Mask Detector** is a module that monitors the wearing of protective masks in public places



Project milestones

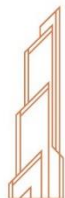


5,000+

TRASSIR's loyal customers worldwide

TRASSIR®





MERCURY
TOWER

Mercury City Tower

Unique in its elitism, the building has repeatedly won the International Property Awards, so called Oscars of the real estate world in architecture:

- The best real estate in the world, the best office project in Europe, the best multifunctional complex in Europe, the best vacation project in Europe.

75 floors of the building houses offices, apartments, shopping and recreational areas and a parking lot.



Video surveillance in the industry

Unique properties require a security system that maintains the edge. The high level of service and security creates the added value of real estate.



Project tasks

With the increase in potential threats, it became necessary to update equipment: expand its functionality and implement video analytics solutions for: parking control, guarding entrances and exits, floors and corridors of a building, organizing access for a limited number of people to specified territories, protecting crowded areas; provide synchronization with an installed access control system/fire alarm system and integration with Single Data Center

Solution

More than 1,000 licensed units of TRASSIR equipment have been installed:

- AutoTRASSIR is a parking control module
- TRASSIR Face Recognition is a video module for intelligent face recognition
- TRASSIR IP video cameras
- Synchronized ACS and fire alarm system
- Integrated with Single Data Center.

Effect

Newly integrated intelligent modules provide total control over the territory of the business center, from parking lot to private areas, and reduce any negative incidents to zero. The financial costs for personnel and maintenance have been optimized due to a single workplace and a single database. One or two employees are responsible for security control.

Security is ensured at the highest level and corresponds to the facility status.



We care about the safety of our customers. This solution is shown as model for the industry



Russia, Moscow



SEC Gallery Chizhova

The largest shopping, entertainment and business center in Voronezh. A single complex integrating the Business Center (B+ class) features a 26-storeyed structure with an area of 14,000 m², and an 8-level Chizhov Gallery Center with a total area of 180,000 m².

We care about the safety of our customers. This solution is shown as model for the industry



Video surveillance in the industry

Being a public place with a huge traffic of people, the shopping center is exposed to illegal actions: terrorism, vandalism, theft, fire, etc. Ensuring safety is a key condition for its functioning



Project tasks

- To prevent intruders from entering the facility, ensure control of incoming vehicles and access control of the SEC employees.
- To prevent acts of vandalism, terrorism, theft and other non-routine situations, traffic.

Solution

Introduced video surveillance system with TRASSIR CLOUD support, including:

- TRASSIR IP-cameras;
- TRASSIR video recorders
- Auto Trassir is a module that automatically recognizes license plates
- TRASSIR Bolid is the integration with Bolid fire alarm system software and ACS ARM Orion Pro
- TRASSIR SIMT is a multifunctional motion detector

Effect

A video surveillance system makes sure that all violations without exception are detected and counteracted. The personnel and visitor are secured at a very high level. The equipment was installed in 2015, since then no complaints have been received. The Customer highly appreciated the functionality of the video surveillance system.



Russia, Voronezh



Storing Group of Companies, NEBOPLAZA Business Center

Commercial management and maintenance of shopping and office centers; delivery of goods from abroad. Construction of social facilities and industrial buildings.

**We care about the safety of our customers.
This solution is shown as model for the
industry**



Video surveillance in the industry

The priority tasks include: ensuring security on the territory and around the perimeter, preventing theft, damage to equipment, observing safety regulations by personnel and monitoring labor discipline.

Effect

Obsolete equipment and analog video surveillance system have been totally updated. Security problems on the territory of the shopping center and around it have been solved due to TRASSIR video surveillance system installed.

Ease of operation, server reliability, functionality of TRASSIR software, and the quality of IP cameras completely met the expectations of the management, security service and IT department. The shopping center management is content with the price and quality of equipment and software, a decision has been made to implement all subsequent projects based on TRASSIR software and equipment



Project tasks

- Updating obsolete analog video surveillance system using IP cameras, TRASSIR software and servers;
- Round-the-clock uninterrupted monitoring in shopping centers that ensures safety;
- Continuous archive for at least 30 days;
- Video analytics (analysis of the visitors flow);

Solution

- TRASSIR NeuroStation video server;
- TRASSIR IP cameras;
- ActiveSearch is an interactive search system driven by metadata;
- TRASSIR Face Recognition is a face recognition module;
- TRASSIR Object Left Detector is an intelligent module for detecting left objects.



Russia, Yekaterinburg

TRASSIR®

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Hardware Catalog



Video Management
Software Catalog



Success Cases