TRASSIR®

"Smart checkpoint" Solution
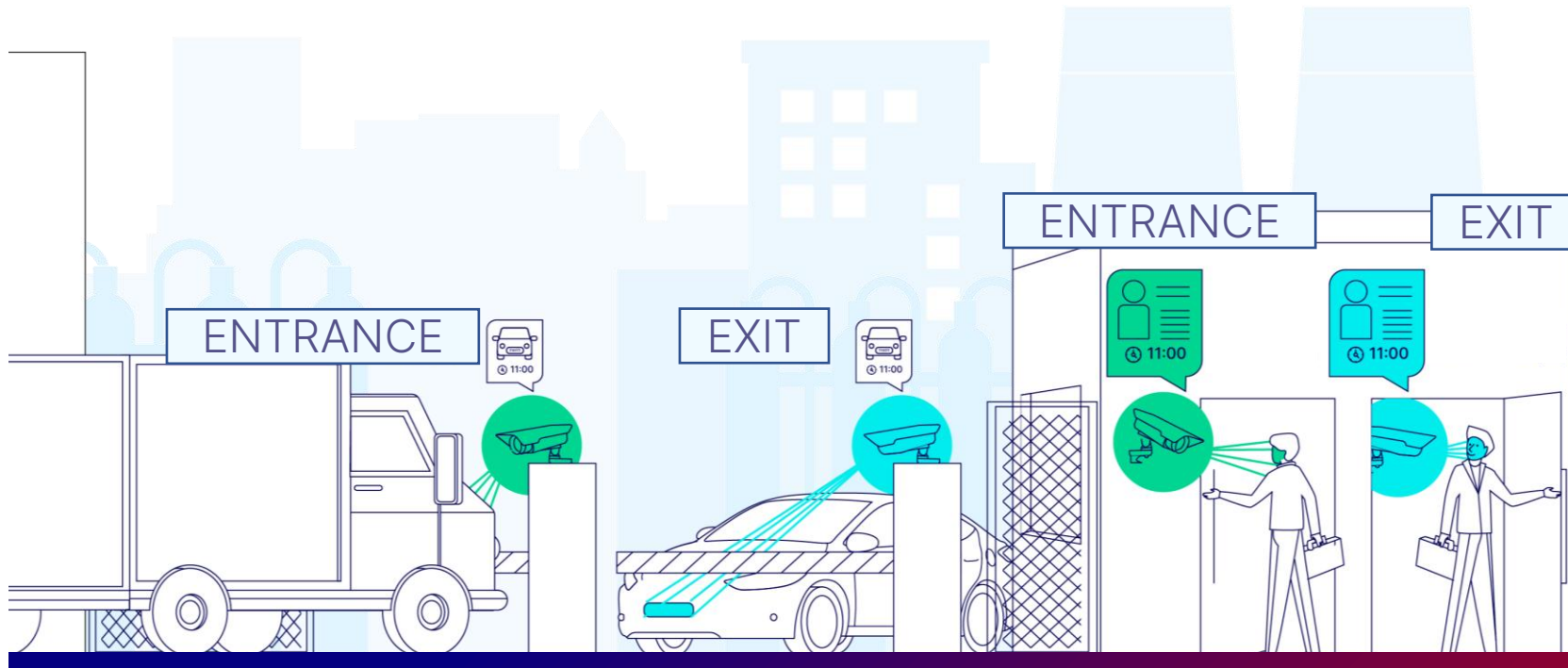
Full automation of the checkpoint for industrial enterprises.

The "Smart CHECKPOINT" solution

Key information

TRASSIR

ENTRANCE

EXIT

ENTRANCE

EXIT

11:00

11:00

11:00

11:00

Full automation of the checkpoint

- Transport control

- Control of people

- Analytics and data

- The whole set of equipment from cameras to barriers and turnstiles

About the product

The Smart CHECKPOINT solution is a ready-made set of equipment, software and video analytics modules for integrated checkpoint automation.

The solution is technically suitable for most industrial enterprises and can be modified to meet specific project requirements.

Solution possibilities

- ACS with recognition of car license plates and employee identities;
- Multi-factor authentication at the entrance and exit: by card, face, temperature, etc.
- Control of vehicles in the parking lot;
- Automatic maintenance of the list of incoming and outgoing vehicles;

Advantages of the solution

- Increase, control and forecast of checkpoint capacity;
- Reduction of the number of guards;
- Exclusion of theft in collusion with a security guard;
- Resolution of disputes at the checkpoint and parking;
- Reduction of errors, human factors and manual labor;
- Accounting of the time of arrival and departure of vehicles;

The "Smart CHECKPOINT" solution

TRASSIR

Composition of the solution

TRASSIR VIDEO ANALYSIS MODULES	**+**	ACS	**+**	VIDEO RECORDERS	**+**	CAMERAS	**+**	EQUIPMENT AND ACCESSORIES

- **AutoTRASSIR** – module is designed for automatic recognition of car license plates that have come into the field of view of the video camera

- **Face Recognition** is a TRASSIR module for recognizing and searching people using a pre–configured database of faces

- **TRASSIR ACS** – access control and management system based on the TRASSIR platform

- **TRASSIR Parking** is a script module for taking into account the status of parking and the history of the movement of cars on the operator's screen. The module calculates the time spent by cars in the parking lot

- TRASSIR ACS

- Readers

- Supervisors

- Executive devices

- TRASSIR Video recorders (servers)

- Video recorders (servers) from other manufacturers

- TRASSIR Cameras

- Cameras from other manufacturers

- Network equipment

- Video surveillance system components

- Barriers

- Turnstiles

* The composition of the solution and its cost may change in the individual conditions of a particular project.

The "Smart CHECKPOINT" solution

Benefits

Solution efficiency:

Accuracy of car license plate recognition	Auto TRASSIR	**95 - 99%**
Employee face recognition accuracy	Face Recognition	**90 - 94%**
Accuracy of counting parking spaces in the parking lot	TRASSIR Parking	**75 - 99%**
The possibility of an error when using two-factor authentication when logging in to the object	Face Recognition + employee card	**0,001%**
Increase in the checkpoint capacity		**up to 30%**
Reduction of the number of guards at the checkpoint		**up to 50%**
Exclusion of cases of theft in collusion with a security guard		**Up to 99.9%**

Sources of customer benefits:

- Reduction of the number of guards (Reduction of FOT) – achieved through automation of processes;
- The exclusion of theft in collusion with a security guard is achieved by automatically maintaining a list of car numbers, as well as checking on the "white" and "black" list;

The third month of ownership of the system is the payback point of the solution for all sources of benefits (in total)

Advantages:

Effectiveness
- Increase, control and forecast of checkpoint capacity;
- Automated maintenance of reliable lists of entered/exited people and cars
- Reduction of the number of guards;
- Automatic recording of the time of entry and exit of vehicles;
- Reduction of errors due to manual labor;
- Resolution of disputes at the checkpoint and parking;

Safety
- Exclusion of theft in collusion with a security guard;

Convenience
- All software from one Russian developer;
- Operational technical support;

The price of the "Smart CHECKPOINT" solution

TRASSIR

Possible options

Basic solution

The solution includes only the necessary AutoTRASSIR module, cameras and DVR.

*average price per checkpoint

Only the most necessary:

- Number recognition
- Automatic lifting of the barrier

The optimal solution

The solution includes a full set of video analysis modules, ACS, cameras and a DVR.
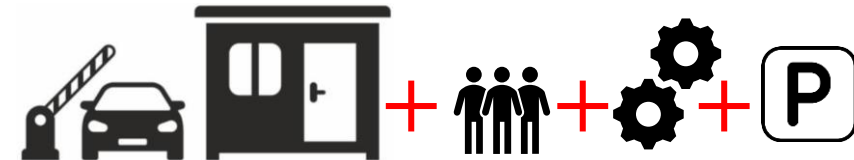
*average price per checkpoint

In addition to the "Basic":

- Personality recognition (Facial recognition)

Premium solution

The solution includes a complete set of software, equipment and components for complex automation of the checkpoint including a barrier and a turnstile.

*average price per checkpoint

In addition to the "Optimal":

- Control of the number of cars in the parking area
- Control of the time spent by cars in the parking lot
- Actuators: barrier and turnstile-tripod

The price of the "Smart CHECKPOINT" solution

TRASSIR

Possible options

Basic solution

The solution includes only the necessary AutoTRASSIR module, cameras and DVR.

*average price per checkpoint

Modules	AutoTRASSIR-30
Registrar	NeuroStation Compact / RE

Cameras   (selected individually)

The optimal solution

The solution includes a full set of video analysis modules, ACS, cameras and a DVR.

*average price per checkpoint

Modules	AutoTRASSIR-30 Face Recognition TRASSIR SKUD
Registrar	NeuroStation

Cameras   (selected individually)

Premium solution

The solution includes a complete set of software, equipment and components for complex automation of the checkpoint, including a barrier and a turnstile.

*average price per checkpoint

Modules	AutoTRASSIR-30 Face Recognition TRASSIR SKUD TRASSIR Parking
Equipment	Barrier Turnstile tripod
Registrar	NeuroStation

Cameras   (selected individually)

⬜ - The core of the solution

TRASSIR

Competitive advantages of the Smart CHECKPOINT solution:

1. TRASSIR is a single integrated supplier – manufacturer of software, equipment and distributor of a wide range of partner equipment

2. The solution offers a full set of functions (basic + additional)

3. Greater flexibility of the solution – the ability to use the client's cameras and DVRs (from other manufacturers)

TRASSIR®

Thanks for your attention!