AutoTRASSIR
Smart License Plate Recognition

Detection and identification of vehicles in the video stream
ensures security, improves process efficiency and solves business tasks

AA 7774 B

AutoTRASSIR

Neuroanalytical smart module for identification, recording and event search of vehicles and their registration plates.

The module automatically detects and determines the type of vehicle (motorcycle, passenger car, van, truck, bus) and identifies the license plate in real time, stores it and compares it with the database list.
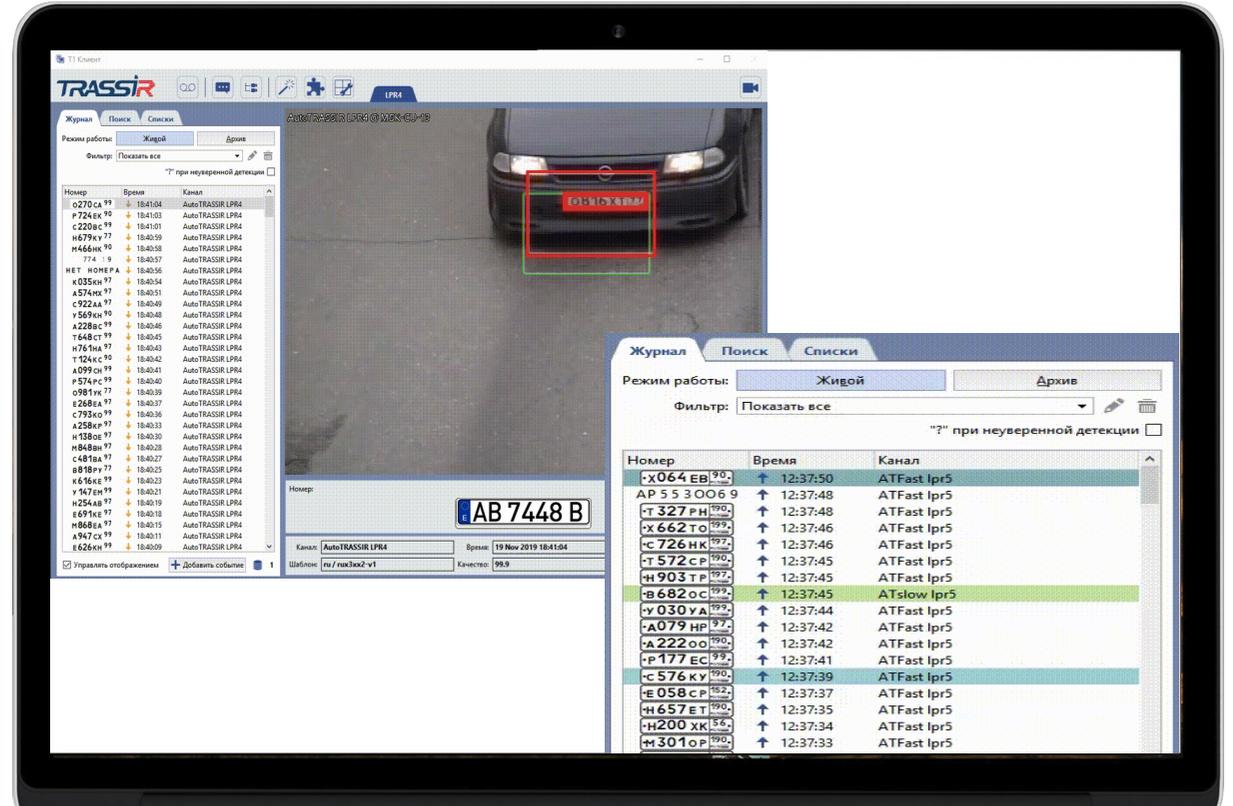
AutoTRASSIR usage scenarios

Crime prevention:

- Vehicle tracking
- Facilitating law enforcement efforts
- Preventing terrorist attacks
- Criminal search
- Detecting vehicles without license plates

Accounting and control:
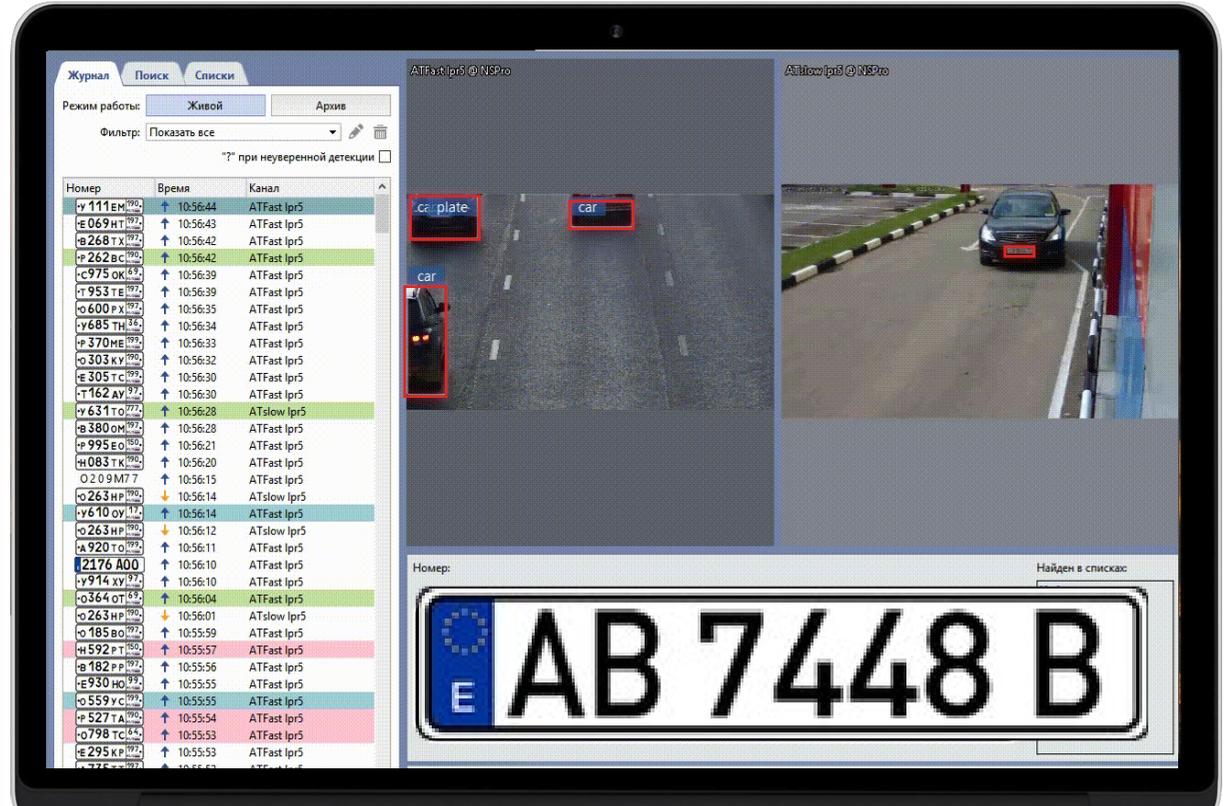
- Logging and event search

AutoTRASSIR usage scenarios

Speed control:

- Calculation of vehicle speed using the license plate (with the use of additional scripts)

- Traffic flow calculation

- Intergration

Service and security:

- Quick and convenient access to the parking lot

- Access control to areas that require an additional level of authorization

- Barrier/gate management Blacklist, VIP list etc.

AutoTRASSIR usage scenarios

Analytical capabilities to solve complex business problems

Traffic flow management:

- Count and behavior analysis
- Control of set boundaries violation

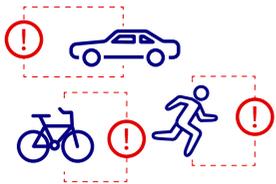*using the Direction Detector module

Payment collection:

- Providing control of payment points via license plates
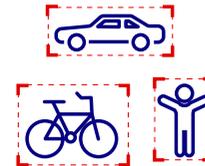- Vehicle counting

*using the NeuroCounter module

Analytics:

- Forming a database of recognized license plates combined with the image of the car, detection date and direction of movement
- Logging and event search
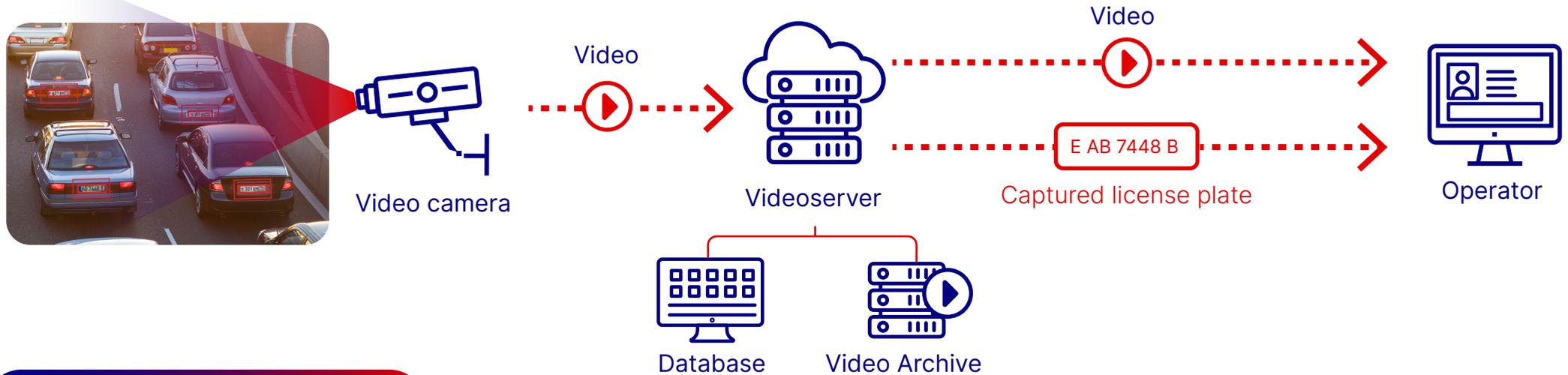
*using the Direction Detector module

*Direction Detector – neuroanalytical module to track the movement of objects towards a forbidden direction

*NeuroCounter – smart object counter

Solution architecture. How does it work?

Video camera → **Video** → Videoserver → **Video** → **Captured license plate** `E AB 7448 B` → Operator

Database

Video Archive

Response scenarios:

1 Notifications in
the Trassir interface

2 **Notification:**
SMS - Email alerts
Telegram alerts

3 **Integration with on-site systems:**
Access control system (turnstiles, doors, etc.)
Voice announcement system
Alarm system
Radars

Areas of application

Airports

Public places

Retail

Road infrastructure

Business centers
and offices

Industrial
enterprises

Cultural and
sports facilities

Customs and
border control

Safer city

Solution benefits

Smart algorithms

– high percentage of accurate recognition in a live video stream or from photos. Adaptation to different exposure conditions and changes in the physical characteristics of the human face

Versatility

– capability of working with two-line license plates, recognition of license plates of **Russia, Ukraine, Turkey, Taiwan, Moldova, Kyrgyzstan, Kazakhstan, Spain, Georgia, Belarus**, etc.

Modification and variability

– the option of expanding functionality and further customization.

Solution options:

- **AutoTRASSIR-200 (Fast)** – license plate recognition at speeds up to 200 km/h. Suitable for use on highways.

- **AutoTRASSIR-30 (Slow)** – license plate recognition at speeds up to 30 km/h. Suitable for use in parking lots.

- **AutoTRASSIR HW** – Hardware license plate recognition on camera.

Offload analytics

– the option of gradual increase of smart functionality

Operator interface

– working tool for information processing, automatic and quick notification of the operator on detecting recognized faces

Intergration

– the necessary set of mechanisms for integration with hardware

Independency

– the option to use the module with most third-party equipment

AutoTrassir. Stories of Success

OKB Mikron is a company in Krasnoyarsk that specializes in the production, development, testing and maintenance of various equipment and tools

Industry: Engineering

Results of implementing the solution:

- Development of an automatic control system for entry and exit to the territory of production with the use of white and black lists

- Integration into the existing enterprise management system

- Proven 95% accuracy of license plate recognition, reducing the time costs of security personnel due to the introduction of automatic control

AutoTrassir. Stories of Success

ROMCARTON is the largest plant in Eastern Europe, located in Romania and specializes in the production of corrugated cardboard materials. The area of the plant is about 35,000 m^2

Industry: Engineering

Results of implementing the solution:

- Consolidation of fragmented systems under a single unified core

- The need for automated access control to the production area, as well as monitoring traffic flow compliance

- 25% decrease in payroll

AutoTrassir. Stories of Success

Selgros Cash & Carry Romania is one of the biggest players in the Romanian retail sector and one of the top wholesale companies in Romania

Industry: Retail

Results of implementing the solution:

- Creation of a centralized monitoring system in all chain stores and surrounding areas

- Integration of vehicle access control, anti-theft gate and loading ramp detection capabilities

- The payback period of 1 million euros equals to 1 year, owing to reduced financial losses, payroll expenses and third-party market research

TRASSIR®

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Hardware Catalog

Video Management
Software Catalog

Success Cases