



Residential Parking Optimization

Smart Indoor Parking Management



Gated community parking

Top Priority

- ✓ **Parking lot management: access is granted to authorized vehicles only**

Key requirements:



Controlled access to the car park only when a space is available



Efficient parking space rent payment monitoring



Strict team discipline to avoid collusion

Gated community parking

- Parking lot access control logic checks for space availability and due rent payments
- Better parking lot management: accurate parking space availability info in real-time

Results



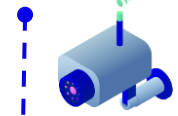
ID 458412

Entry time: 12:48
Exit time: 15:17



- ✓ **NO UNAUTHORIZED ACCESS** : the resident vehicle license plate and parking spot rent status are checked
- ✓ **EFFICIENT ACCESS CONTROL** : entry/exit times are recorded.

Use case



SURVEILLANCE CAMERA
Auto license plate recognition



SERVER
Parking lot status monitoring



BARRIER OPENS



ACCESS GRANTED



PARKING LOT



PARKING LOT STATUS UPDATE

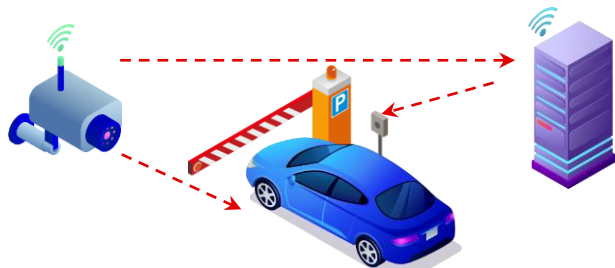
ENTRY/EXIT

INDOOR PARKING LOT

Operation

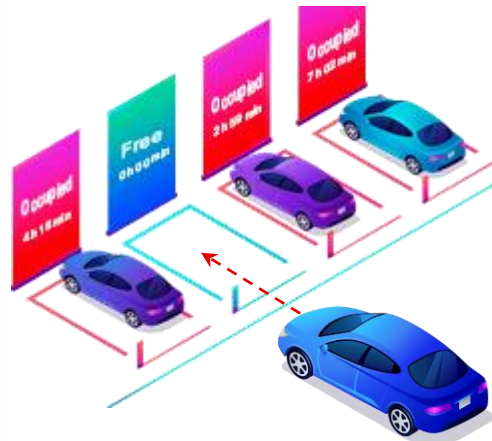
Primary Identification

- 1 A vehicle approaches the parking lot entry barrier
- 2 The system recognizes the license plate and sends a request to the server to verify the vehicle status
- 3 If the parking space is vacant, the barrier opens. If not, access is denied.



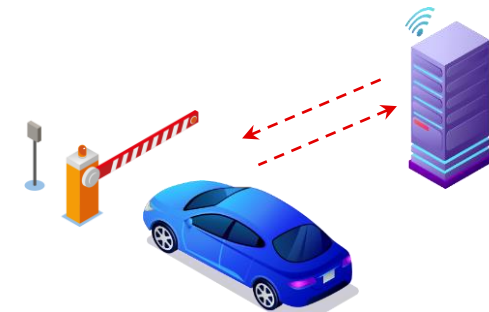
Entry

- 1 The vehicle is parked in its assigned parking space



Exit

- 1 The vehicle exits the parking lot
- 2 Server synchronization



Key Features

Auto, real-time access control

The system recognizes the vehicle license plate, checks if it is on the whitelist, verifies the parking space status, and grants or denies entry



System Access Control

Only authorized persons may make changes to the vehicle whitelist



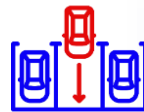
Notifications for the managing company

Accident notification



Convenient for residents

Residents easily access their assigned parking spaces



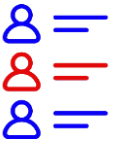
Parking lot Monitoring

Reports for the managing company to track the parking lot occupancy



Easy Vehicle Whitelist Management

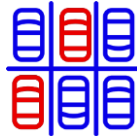
Both the residents and the operator can easily add/modify vehicle details



Key Features

Parking availability monitoring

Auto license plate recognition and the assigned parking spot status verification



Parking availability payment monitoring

Auto generation of parking space rent reports



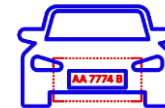
Visitor permits

With the app, residents create visitor parking permits





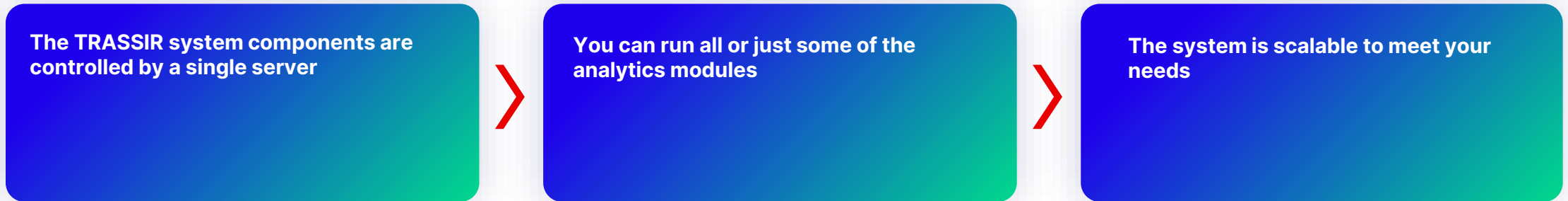
Just one access option

Only your license plate grants access to the parking lot: no keys, no operator.



Solution Components

EQUIPMENT	ANALYTICS	REPORTS
 <p>CCTV cameras</p>	<p>Auto TRASSIR: auto license plate recognition</p>	<p>TRASSIR Parking Analytics Business intelligence for executives</p>
 <p>Video recorder</p>	<p>TRASSIR Parking Indoor S/Multi: parking access script</p>	



Equipment

TR-D2223WDZIR

Street cameras



- Year-round, 24/7 outdoor operation.
- Motorized lens, 2.7...13.5 mm focal length, 32...102° horizontal viewing angle, 53...18° vertical viewing angle.
- H.265, H.265+ and H.264 video codecs, dual stream reduces the network and server loads.
- 25 fps.
- Interfaces: RJ-45 Ethernet port, slot for microSD cards up to 128 GB, audio input, audio output, alarm input, alarm output, and power supply connector.
- A swivel bracket for easy camera adjustment is included. Power: 12 V DC, PoE.
- Max power consumption: 10.5 W
- Dimensions: 234.33x77.5x73.4 mm, net weight: 635 g.

NeuroStation Compact RE

Network Video Recorder for IP cameras, TRASSIR OS (Linux)



- Neural network-based video analytics (since July 26, 2021, 2 Neuro Detector licenses have been included, more licenses can be purchased separately): Face Recognition, AutoTRASSIR, Crowd Detector, Direction Detector, Wear Detector, Hardhat Detector, Neuro Counter, Queue Detector, Staff Tracker, Face Mask Detector, and Social Distance Detector. For a detailed description of the modules, please refer to the TRASSIR Software page at www.dssl.ru
- Offload analytics (receiving and processing videos from other TRASSIR servers).
- Recording and playback for up to 16 IP cameras from any supported manufacturer (camera licenses are purchased separately). DualStream is required (total rate: up to 640 Mbit/s).
- Up to 2 3.5" HDDs. Up to 2 monitors. 19", 2U rack mounted.
- Dimensions (WxHxV): 482x390x89 mm.

WD82PURZ

Hard drive



- WD HDD 2 Tb SATA 6Gb/s Purple 3.5", 256 Mb

Benefits

EFFICIENT

- ✓ Parking space allocation
- ✓ Computerized system, easily accessible from your control room
- ✓ Manual and script-based control

SECURE

- ✓ Authorization required to access the data and control center
- ✓ Data storage, extensive search options

COMPREHENSIVE

- ✓ The system is flexible: more functions and modules can be added
- ✓ Parking lot load analytics, operator and end-user functions

QUICK

- ✓ Integration with the building management company applications
- ✓ Equipment installation and setup

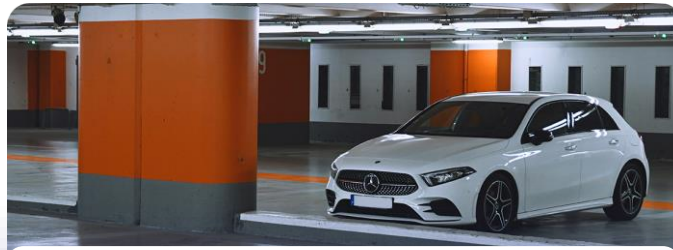
Residential parking solutions



GATED AREA ENTRY/EXIT

- Quick entry for whitelisted vehicles
- Quick, real time monitoring
- Quick data search

AutoTRASSIR
technology
Auto license plate recognition



INDOOR PARKING

- Parking lot access control

AutoTRASSIR
technology
Parking lot access control



OUTDOOR PARKING

- Quick parking space location
- Quick vacant spots reporting
- Quick access from the resident app

AutoTRASSIR
technology
Vacant spots visualization



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