TRASSIR®

TRASSIR TODAY

Experience in CCTV surveillance

SINCE 2002

15 000 +

loyal customers around the globe

3

R&D centers

50

countries with TRASSIR installations

Why TRASSIR?

Compatible with 99% of cameras

NVRs and analytics are compatible with 99,9% of IP-Cameras. Connection options include:

- Native integration (manufacturer protocol)
- ONVIF
- RTSP connectivity

Pre-sale demo and training

Our engineers demonstrate system functions and conduct training sessions and webinars

Highly customizable

Complete customization for specific projects using rules and Python scripts

Technical project supervision

Dedicated technical manager on project base

Easy predictable TCO

Lifetime licensing, firmware updates, free technical support

Turnkey solutions

Complete end-to-end video surveillance systems of any size

Privacy, protection of personal information and data

Client-server architecture with flexible access rights configuration for owner, administrators, operators, managers.

Archive can be encrypted. So that only the password owner can access it.

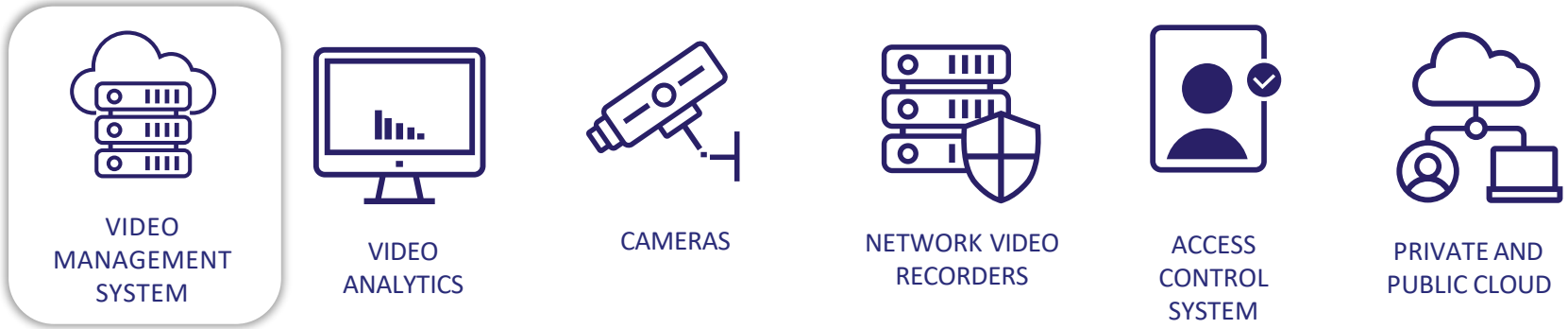
All network connections, including video stream transferring, are protected with SSL and TLS protocols.

WIDE RANGE OF SOLUTIONS FOR VARIOUS INDUSTRIES

BANKING | WAREHOUSES | HORECA | EDUCATION INSTITUTIONS | RETAIL | MANUFACTURING ENTERPRISES | SMART CITIES

TRASSIR®

6 in 1



NEURAL NETWORKS

ARTIFICIAL INTELLIGENCE

MACHINE LEARNING

Stable software to manage monitoring and video surveillance systems for businesses of any size

- Internal scripting system with nearly unlimited system automation capabilities
- Convenient and adaptive interface that can be customized to fit tasks
- Configure devices, cameras, and video recorders in the TRASSIR interface
- Flexible user rights management system
- Integration with access control systems, security and fire alarm systems, intercom, etc.
- Simultaneous video recording on multiple hard drives
- Record, export, and view streams in multi-threading mode
- Interactive maps
- Send push notifications to email, Telegram, Mobile application and TRASSIR Cloud
- Failover
- Compatible with 99% of IP cameras on the market: ONVIF, RTSP supported
- Automatic performance monitoring
- Easy access via client apps for web, desktop and mobile
- API/SDK/Access to SQL DB for integration with other systems
- Archive and stream encryption

TRASSIR VMS advanced features

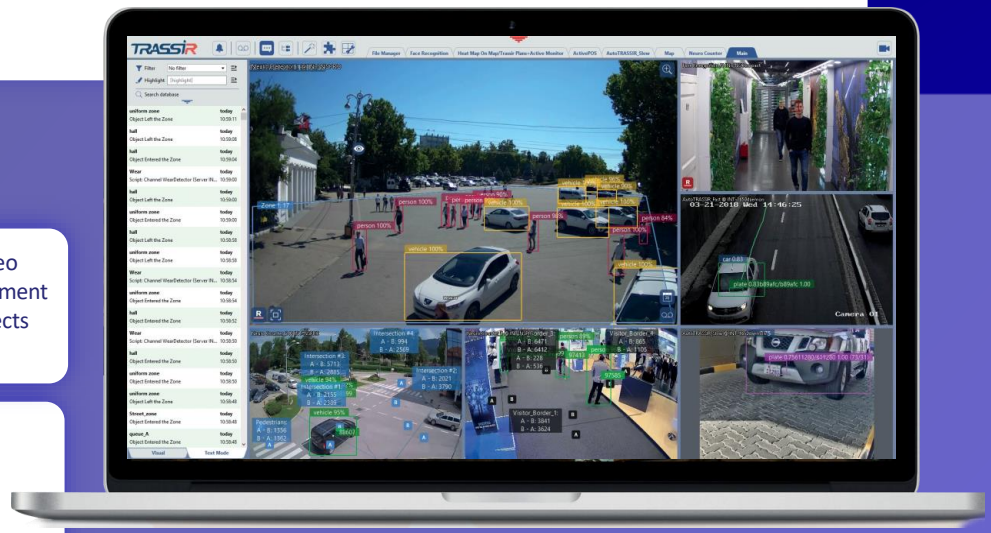
TRASSIR OS on TRASSIR servers: video surveillance server performance and security

TRASSIR CMS: extensive video surveillance system management solution for large scale projects

Video analytics processing on GPU for maximum return on investment

Quick and efficient event search in the archive

Advanced neural network video analytics



VMS core licenses

TRASSIR VMS functionality is available with channel licenses	AnyIP INT	AnyIP PRO INT	Enterprise IP INT	AnyIP win64 INT	AnyIP PRO win64 INT	Enterprise IP win64 INT
Connecting one camera	+	+	+	+	+	+
TRASSIR VMS installation on TRASSIR OS-based servers	+	+	+	-	-	-
Installing TRASSIR VMS on a Windows-based servers	-	-	-	+	+	+
TRASSIR VMS: video surveillance, video wall, video archive, situation center, maps, system monitoring, user management, API, scripts, etc.	+	+	+	+	+	+
Web interface and mobile version (when connected to TRASSIR Cloud)	+	+	+	+	+	+
Built-in detectors: line crossing, motion, sound, heat map, sabotage	+	+	+	+	+	+
TRASSIR CMS: private cloud functionality; local web-interface; unified user management, LDAP; solve the problem of low-bandwidth Internet channels; centralized monitoring and reports; connect any number of servers and cameras; etc.	-	+	+	-	+	+
TRASSIR License Manager: centralized license management	-	-	+	-	-	+
TRASSIR VMS installation on Linux-based servers (CentOS, Astra Linux)	-	-	+	-	-	+
Connect PTZ cameras, FishEye cameras, thermal imaging cameras	P	P	P	P	P	P
Neuro Detector - detects people on video with very high accuracy, generates an alarm, and sends out an alert when someone enters a specified area	P	P	P	-	-	-
NetPing and Intercom integration	P	P	P	P	P	P
Analytics HW - software for setting up hardware video analytics (line intersection detector and abandoned object detector) built into video cameras	P	P	P	P	P	P

P – stands for PROMO, all features marked P are included at no additional cost in any single core license.

Extend your VMS functionality with the following features

TRASSIR NETSYNC INT

Archive synchronization from other TRASSIR servers

TRASSIR PACS INT

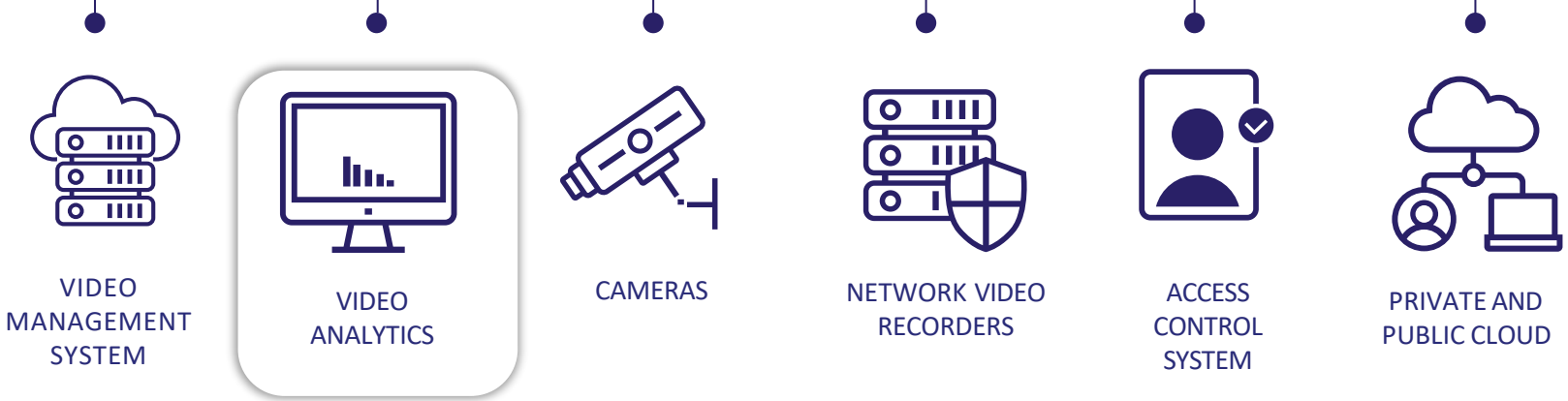
Physical Access Control and Management System on the TRASSIR platform.

Integration with ACS and Fire Alarm systems

Integration with 3rd party ACS and Fire alarm systems (ask your manager for available integrations)

TRASSIR®

6 in 1



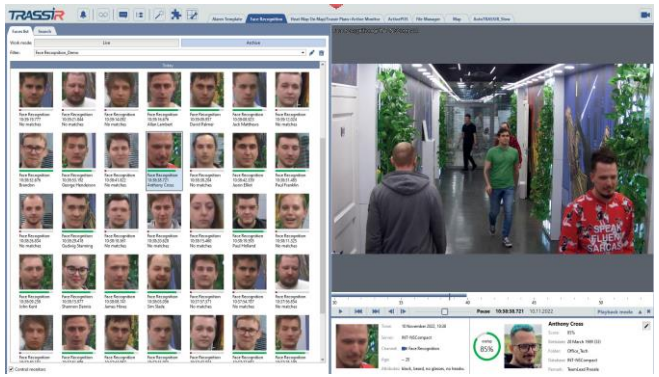
NEURAL NETWORKS

ARTIFICIAL INTELLIGENCE

MACHINE LEARNING

Software Video Analytics | Face Recognition Solutions

TRASSIR Face Recognition INT

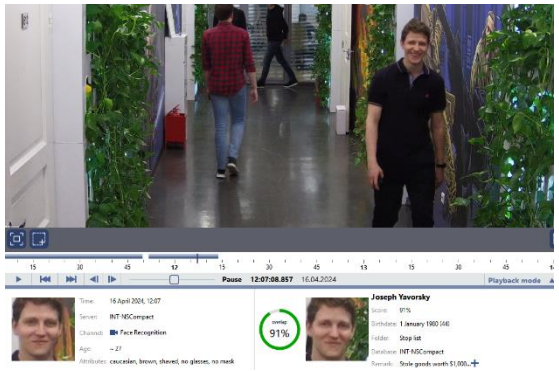


intelligent face recognition and search module using a pre-configured database of people (residents, staff, etc.).

- 99,8% accuracy
- Prevent access by unauthorized people to the facility
- Obtains facial attributes for advanced analytics and searches based on specific parameters (race, age, sex, hair colour, beard, moustache, glasses, headwear, protective mask, etc.)
- The face database can be accessed from a local or remote TRASSIR server with options to copy, import, and synchronise the face database
- Intergration with ACS
- Attendance and shift monitoring

Win64 available | Per channel

TRASSIR Theft Prevention INT



has a single web interface for managing a database of offenders for retail store chains (TRASSIR servers). Stores video evidence of incidents, and maintains a record of the amount of losses incurred by each person.

Module functions:

- Recognition of faces and other attributes of appearance;
- Easy search and uploading of evidence base
- Quick alerts;
- Availability of the thieves database at all retail outlets
- Using offload analytics

Win64 available | Per channel

TRASSIR Blurred Face INT

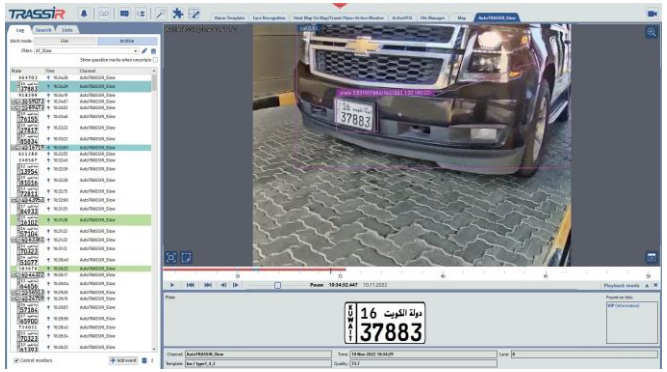
The functionality allows you to blur people's faces when exporting video from the archive.
One license for 1 server.

Per server

Software Video Analytics |

AutoTRASSIR (LPR) Solutions

AutoTRASSIR+ INT



is designed to automatically recognize license plates in the camera's field of view

- Highly accurate license plate recognition
- Identifies vehicle class: motorcycle, passenger car, minivan/van, truck, bus
- Recognizes two-line numbers
- Recognizes license plates in difficult conditions
- 25 countries supported including GCC
- Quick search of license plate numbers in archive
- Real-time banned/approved vehicle identification list and notifications
- Average speed calculation between two cameras
- Integration with camera-based LPR cameras (ask your manager for specific models)

Win64 available | Per channel

AutoTRASSIR Parking INT

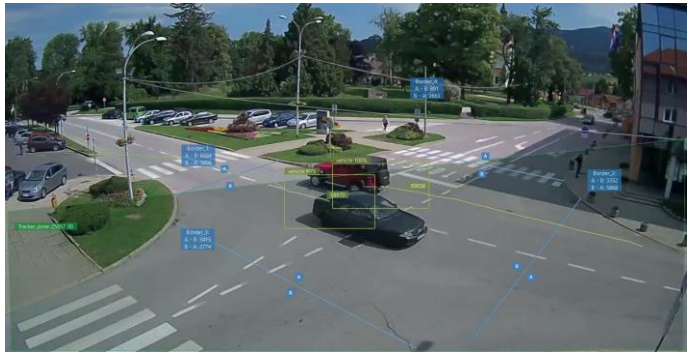
designed to monitor the number of vehicles in the parking area

- Records cars entering and leaving the parking lot and saves the vehicle number, photo, and exact time of entry and exit;
- Calculates the length of time vehicles spend in the parking lot;
- Displays information about current parking status and history of vehicles on the operator's screen.
- Based on the data received, TRASSIR Parking generates a list of vehicles with their exact time and date of entry/exit.

Win64 available | Per channel

Software Video Analytics | People Detection Solutions

TRASSIR Neuro Counter+ INT

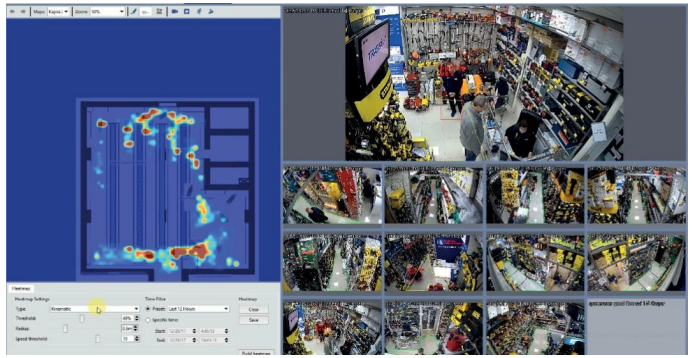


an intelligent video detector that counts unique objects in a specified area

- Counts people, cars and bicycles
- Counts objects crossing a designated line - up to 16 lines per channel can be supported simultaneously
- Includes detection of any movement toward prohibited areas by people, cars, or bicycles
- Automatic reporting on: number of people, minimum time spent in the crowd, etc
- Highly accurate object recognition
- Monitor the distance between people in public places

Per channel

TRASSIR Heat Map on Map INT



an advanced thermal image analysis technology

- Kinetic map - shows areas with high foot traffic
- Stationary map - shows areas where people are more likely to stop
- Trajectories - approximate directions of movement on the map

Per channel

Software Video Analytics | People Detection Solutions

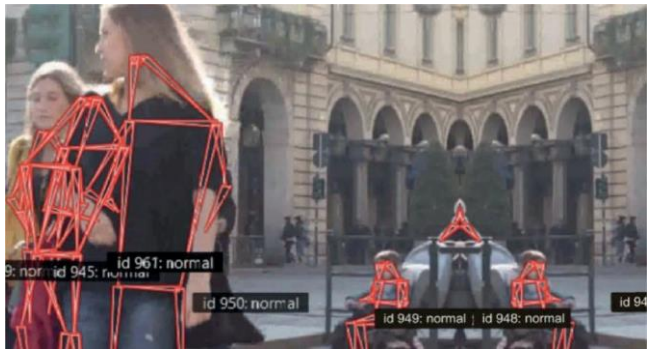
TRASSIR Queue Detector+ INT

an intelligent video analytics system using neural networks designed to count the number of people in a queue

- Automatic reporting on the number of people in the queue and time spent there
- Notification module for when specified queue length is exceeded

Per channel

TRASSIR Pose Detector INT



detects and classifies people's postures. For instance, it can help identify and track unusual behavior

Currently supports recognition for the following set of poses:

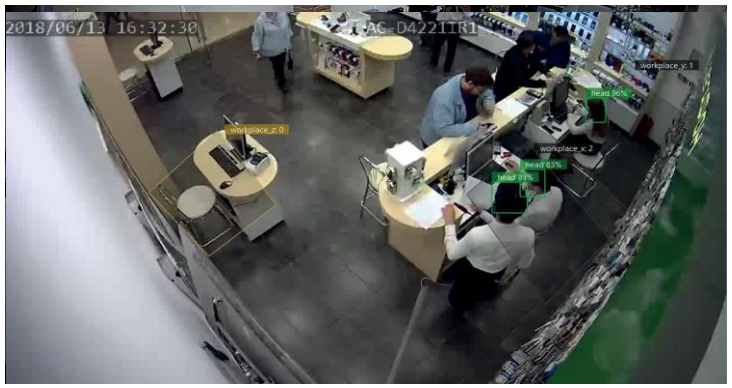
- ✓ sitting
- ✓ lying down
- ✓ raised right hand
- ✓ bending over
- ✓ raised left hand
- ✓ both hands raised

The detector can be trained to recognize other poses if necessary

Per channel

Software Video Analytics | Work Safety Solutions

TRASSIR Workplace Detector INT

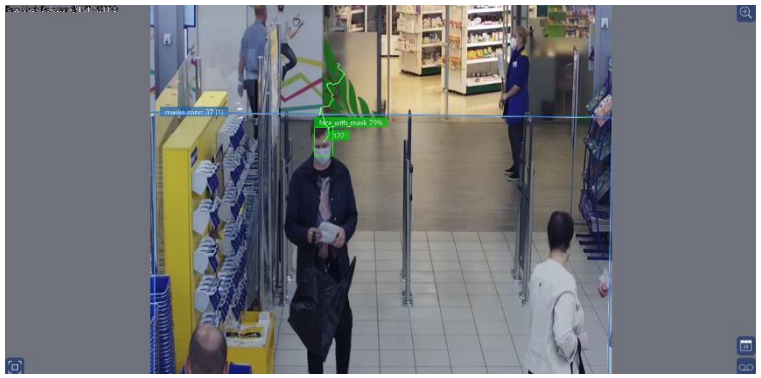


tracks a person's absence from the workplace

- Alarm notification in cases of worker absence
- Daily reporting on employee's real time on- and off-site

Per channel

TRASSIR Face Mask Detector INT

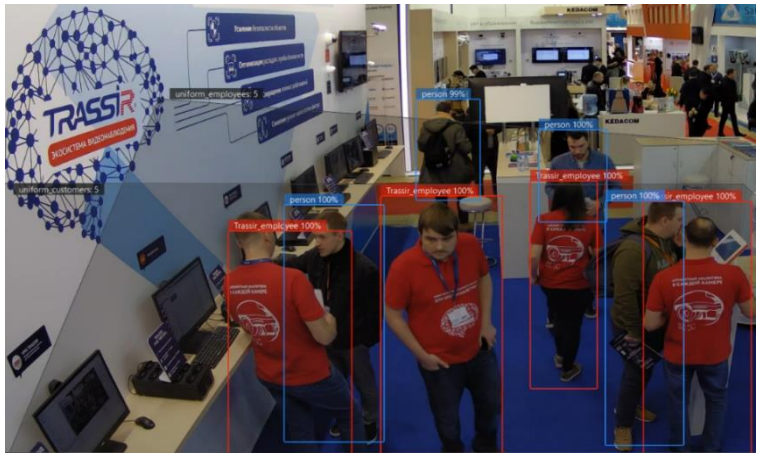


- Monitors compliance with use of personal protective equipment in conditions of increased epidemiological danger
- Sends real-time notifications if someone is detected without a protective mask in the camera's field of view.

Per channel

Software Video Analytics | Work Safety Solutions

TRASSIR Staff Tracker INT

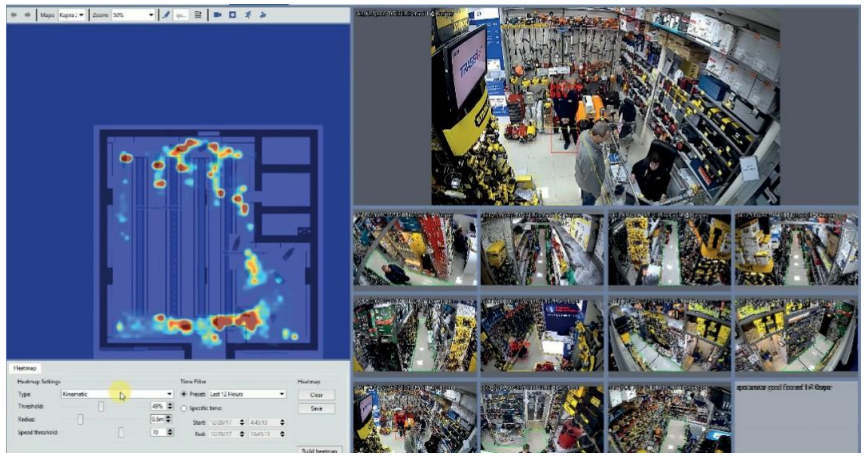


allows employee work performance to be inspected to improve customer service

- Tracks the presence of required personnel in service areas
- Keeps a record of customers left unattended, reports on service quality
- Real time alerts when customer service standards are not met

Per channel

TRASSIR Heat Map on Map INT



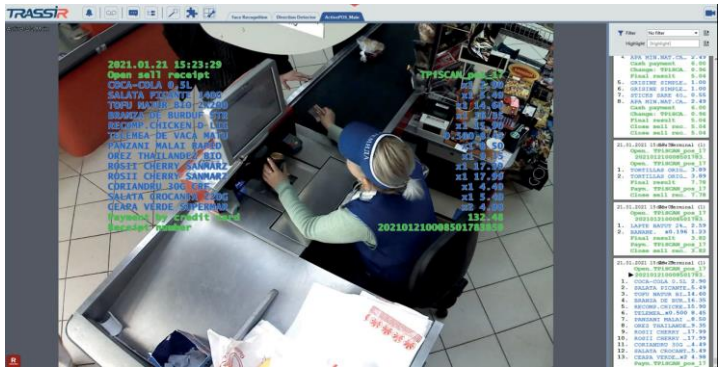
an advanced thermal image analysis technology

- Kinetic map - shows areas with high foot traffic
- Stationary map - shows areas where people are more likely to stop
- Trajectories - approximate directions of movement on the map

Per channel

Software Video Analytics | Point Of Sales Solutions

TRASSIR ActivePOS+ INT

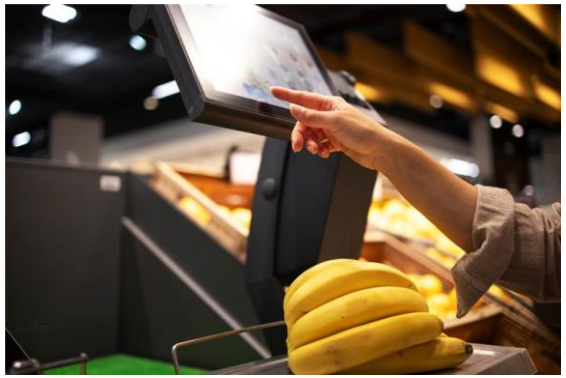


intelligent cash control module

- Helps decrease both planned and unplanned POS losses
- includes more than 60 detectors for predefined loss scenarios. These include: cashier fraud, cashier error (unintentional losses), sub-par service standards, violations of cash management service regulations (determined by law). Generates reports on: total losses (divided by cashier or cashbox), cashier, and analyst KPIs. Requires connection with cash register system. Integration with third party POS systems

Win64 available | Per 2 channel

TRASSIR ActivePOS Weight INT



Helps control products by weight in FMCG retail: automatically track whether all weighed goods pass through the cash registers (the duration is customizable; for example, within 24 hours). The application generates reports containing: product name, weighing terminal + weight, cash terminal + cost and weight by check, links to video archive, weighing time and scanning time at checkout. Requires ActivePOS module on the store's cash registers and scales.

Win64 available | Per server

Software Video Analytics | Warehouse Stock Solutions

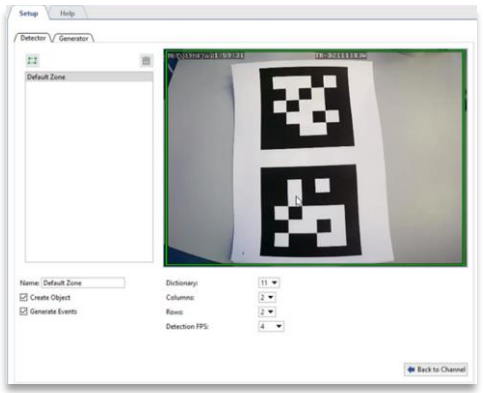
TRASSIR ActiveStock+ INT

used for event-based video monitoring of warehouse operations

- Provides regulation of potential disputes, determines responsibility for availability of goods, and investigates cases of damage in the warehouse
- Offline and online monitoring available
- Event search: reporting document numbers, product name, quantity, cell ID, pallet, customer or organization name, and more

Win64 available | Per 2 channel

TRASSIR ArUco Detector INT



TRASSIR ArUco Detector allows you to recognize ArUco-markers applied to objects. It can be used as an auxiliary tool for accounting in warehouse complexes, logistics distribution centers, production facilities, etc.

Using ArUco markers detector it is possible to do a quick search in the archive and keep records of types of goods, pallets, and any production blanks or spare parts.

ArUco markers can be created within TRASSIR VMS

Win64 available | Per channel

Software Video Analytics | Object detection Solutions

TRASSIR Bag Counter

a module that automatically counts bags or other similar objects on the conveyor belt

- Eliminates errors associated with manual counting of shipped goods, resulting in a reduction of financial losses due to error or staff fraud
- In addition, the module can automate the process of shipping a specific amount of goods. The operator can enter the necessary number of items for shipment. After goods are unloaded, the conveyor stops automatically

Win64 available | Per 2 channel

TRASSIR Left Object Detector

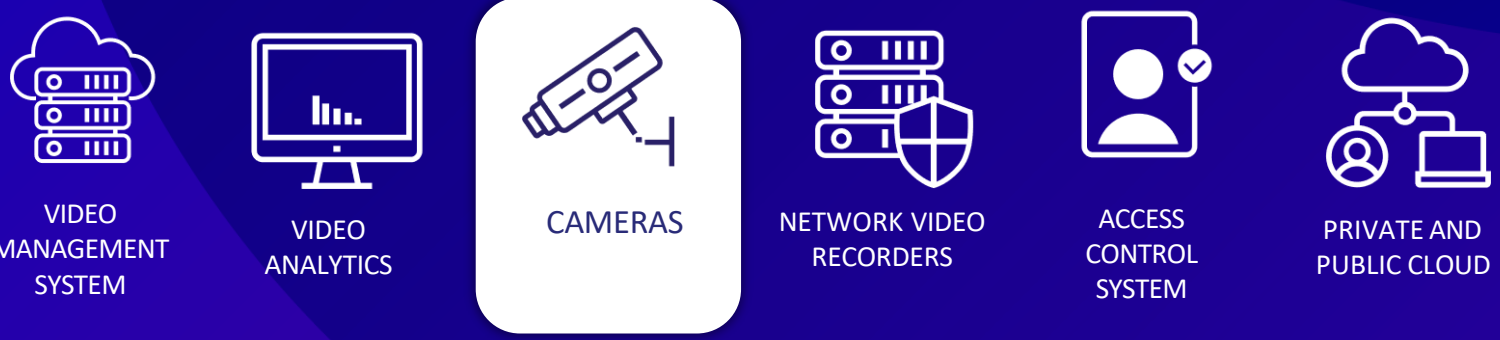
designed to detect abandoned and forgotten items.

Detect third party interactions with the object. The detector determines the class of abandoned object: suitcase, backpack, box (and objects similar in shape), bag, duffle (large sports bag), or handbag (usually a small lady's bag)

Win64 available

TRASSIR

6in1

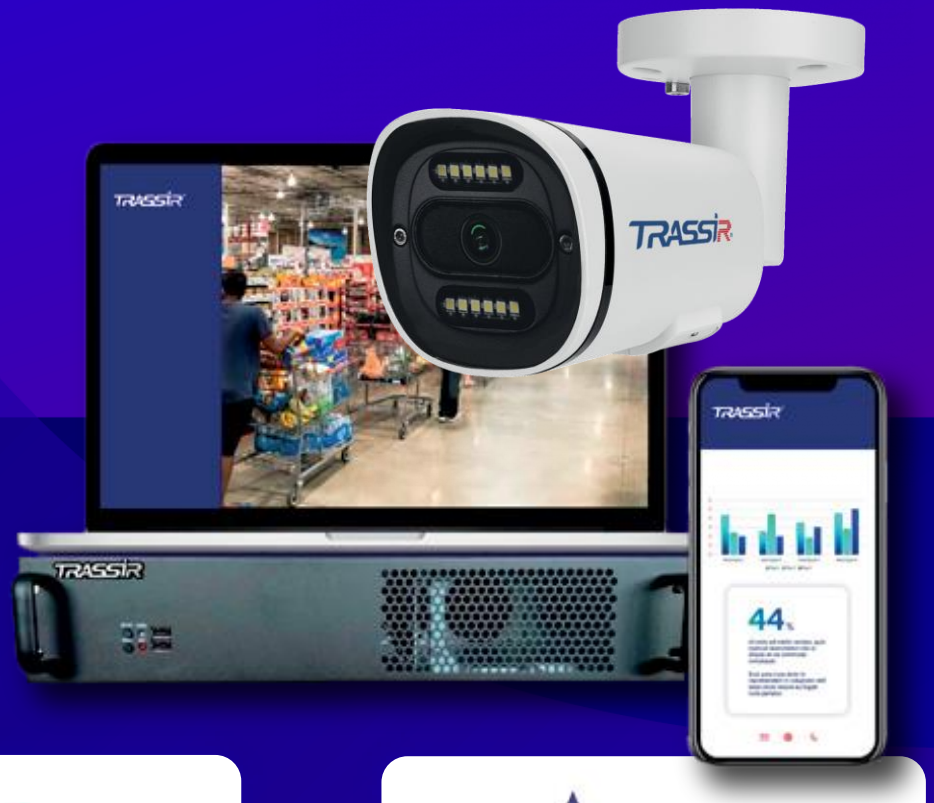


NEURAL NETWORKS

ARTIFICIAL INTELLIGENCE

MACHINE LEARNING

TRASSIR's vast experience and deep understanding of both the security systems market and the needs of its customers have enabled us to create a truly advanced line of TRASSIR cameras to meet the high demands of users. All TRASSIR products can be successfully implemented at facilities of any scale



Value for money

- Advanced video surveillance technologies at affordable prices from budget segments to advanced levels

Quality image

- Up to 120db True WDR
- Up to 0.001 Lux sensitivity
- Up to 8MP resolution

Cutting-edge technology

- High-performance
- last-generation codecs (H.265, H.265+);
- Full-color night recording without switching to black-and-white mode (FTC cameras);
- Hardware analytics.

	Eco	Trend	Pro	Ultra
	Affordable cameras with basic features	Professional video cameras for various task levels	High-performance video cameras with unique characteristics and design protection	High-performance video cameras with a wide range of features
WDR	DWDR 105 dB	RWDR 120 dB	RWDR 120 dB	RWDR 120 dB
Resolution	2MP/4MP	2MP/5MP/8MP	2MP/5MP/8MP	2MP/5MP/8MP with increased framerate
Iris Type	Fixed	Fixed	Fixed	P-Iris
Audio	✗			
Local storage	✗			
Onboard Video Analytics	✓	✓	AI	Advanced AI
Alarm In/Out	✗	In some models	✓	✓
Warranty	2 years warranty	5 years warranty	5 years warranty	5 years warranty

TRASSIR Video Cameras. Eco line

Affordable cameras with basic features -
a line for typical video surveillance tasks

- ✓ **Resolution 2MP/4MP**
- ✓ **Hardware analytics**
- ✓ **Indoor/outdoor models**
- ✓ **Affordable price**
- ✓ **2 years warranty**

TRASSIR Video Cameras. Trend line

Professional video cameras for various task levels -
line for security and monitoring in complex systems

- ✓ **Resolution 2MP/5MP/8MP**
- ✓ **Two-way audio**
- ✓ **Basic hardware analytics**
- ✓ **Built-in archive: recording reliability**
- ✓ **5 years warranty**

TRASSIR Video Cameras. Pro line

High-performance video cameras with a wide range of features -
line for major projects

- ✓ **High image quality**
- ✓ **Two-way audio**
- ✓ **Basic/advanced hardware analytics**
- ✓ **Built-in archive: recording reliability**
- ✓ **Option to integrate with access control systems**
- ✓ **5 years warranty**

TRASSIR Video Cameras. Ultra line

High-performance video cameras with a wide range of features -
line for major projects

- ✓ **High image quality**
- ✓ **Two-way audio**
- ✓ **Basic/advanced hardware analytics**
- ✓ **Built-in archive: recording reliability**
- ✓ **Option to integrate with access control systems**
- ✓ **AutoIRIS**
- ✓ **5 years warranty**

TRASSIR

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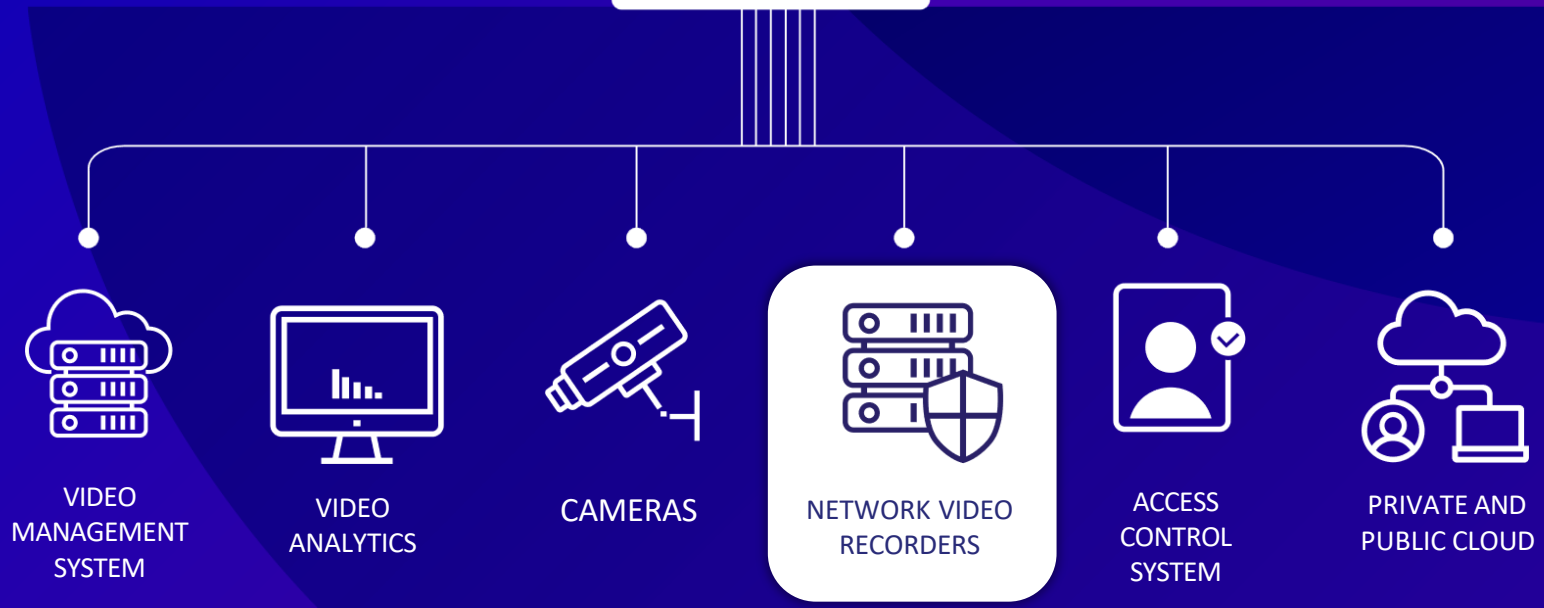

NEURAL NETWORKS

ARTIFICIAL INTELLIGENCE

MACHINE LEARNING

Line of network servers

UltraStation series

Number of cameras:
Up to 256

Support:
All TRASSIR analytics modules RAID
0, 1, 5, 6, 10, 50, 60
HotSwap Redundant power supply units
HotSwap HDD 3.5"
Connect up to 2 UltraStorage

Actual archive size:
38.2TB - 465.66TB

Comes with:
16/24/36 HDD 3.5"
2 power supply units
TRASSIR Neuro Detector
Camera licences

Neuro Station series for analytics

Number of cameras:
16/32/48/64/128/160

Support:
All TRASSIR analytics modules Up to 4K resolution
H.265+/H.265/H.264 MPEG4

Comes with:
TRASSIR Neuro Detector

MiniNVR series

Number of cameras:
4/8/16/24/32

Support:
With/without PoE
H.265+/H.265/H.264 MPEG4

Comes with:
AnyFree/AnyIP camera licences

TRASSIR®

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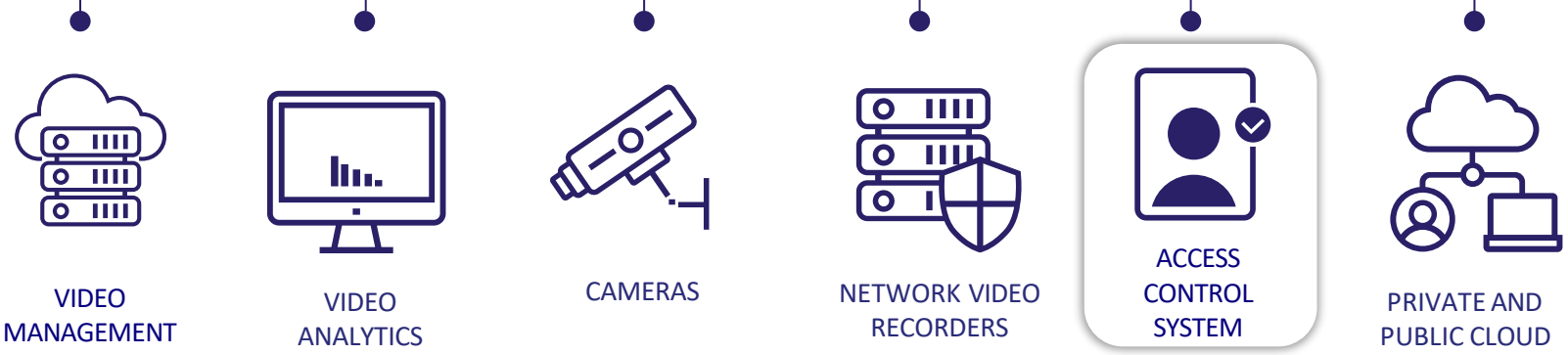


NEURAL NETWORKS

ARTIFICIAL INTELLIGENCE

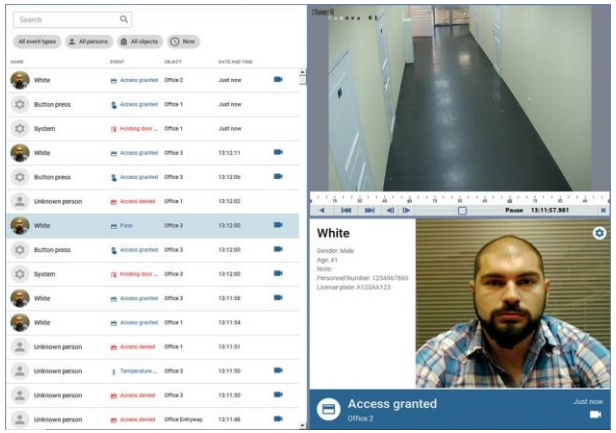
MACHINE LEARNING

Proprietary access control and management system on the TRASSIR platform

The system includes access management, event registration and analysis report generation, and employee timekeeping. The video analytics and intercom integration capability provides all the benefits of access contol systems and smart video surveillance together in the TRASSIR platform.
Proprietary line of access control equipment: low-cost network controllers and readers.

Possibilities

- Human resource management
- Temperature-based access control
- Photo/Video identification
- Access level configuration
- Equipment setup and management
- Multi-factor authentication
- Flexible work and access schedules
- Building analysis reporting
- Configure flexible responses to system events
- Manage visitor passes
- Work in mobile app and browser



Advantages

Comprehensive solution

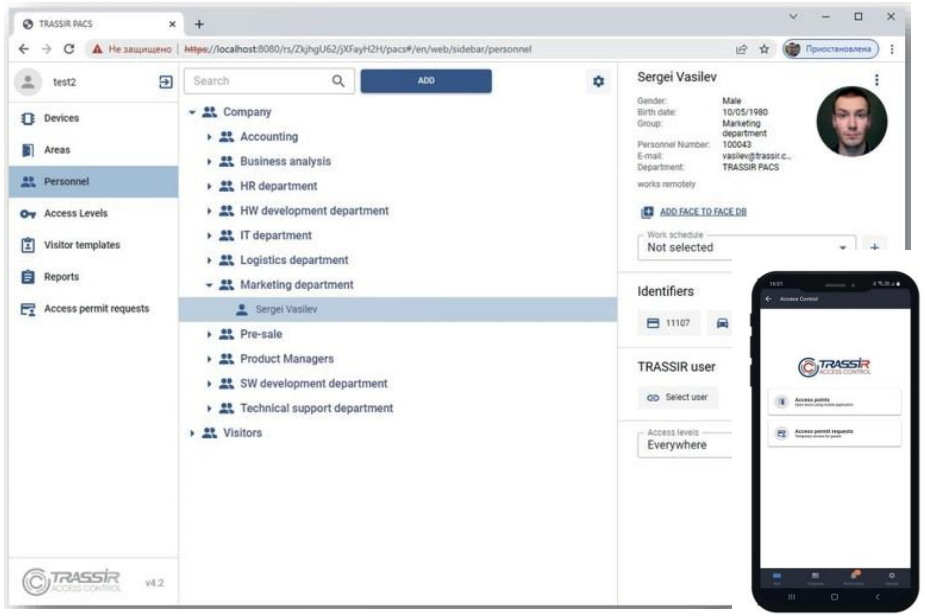
One server for one system - VMS and ACS on one server

Transparent pricing

*Supported hardware: TRASSIR and third - party vendors

Key differences from other access control systems

- Multivendor ACS
  (TRASSIR, HikVision, HiWatch, ZkTeco, TrueIP)
- Integrated security system
  (CCTV, video and event analytics, fire alarm system,
- ACS, intercom, cloud technologies)
- Client customization available
  (Rules, Scripts, Open API)
- Economy and simplicity
  - No need for an additional server
  - One license for all features and a user-friendly interface

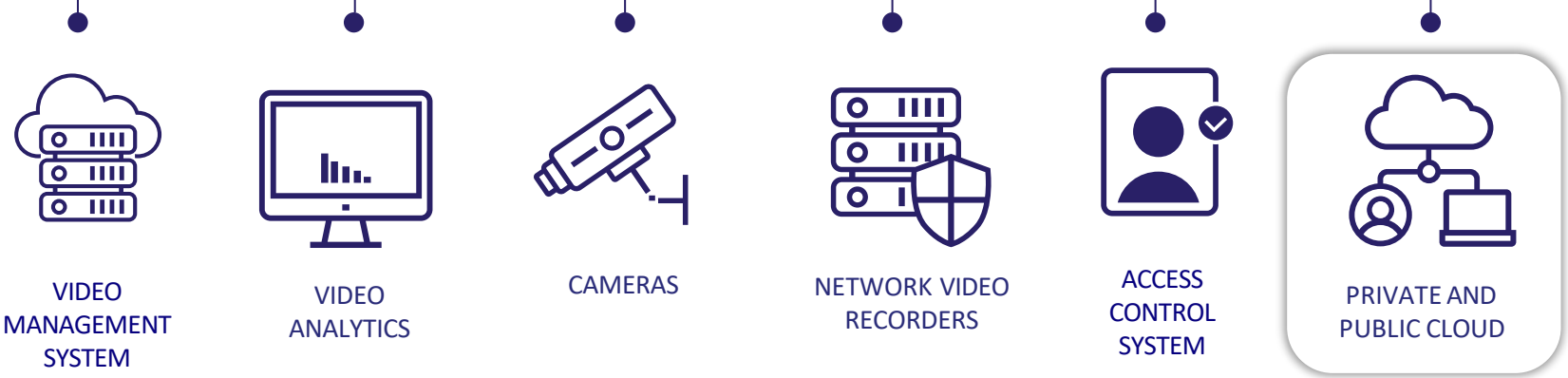


Types of IDs

- Cards
- Fingerprints
- PIN-codes
- Faces
- Temperature
- License plate numbers

TRASSIR®

6 in 1



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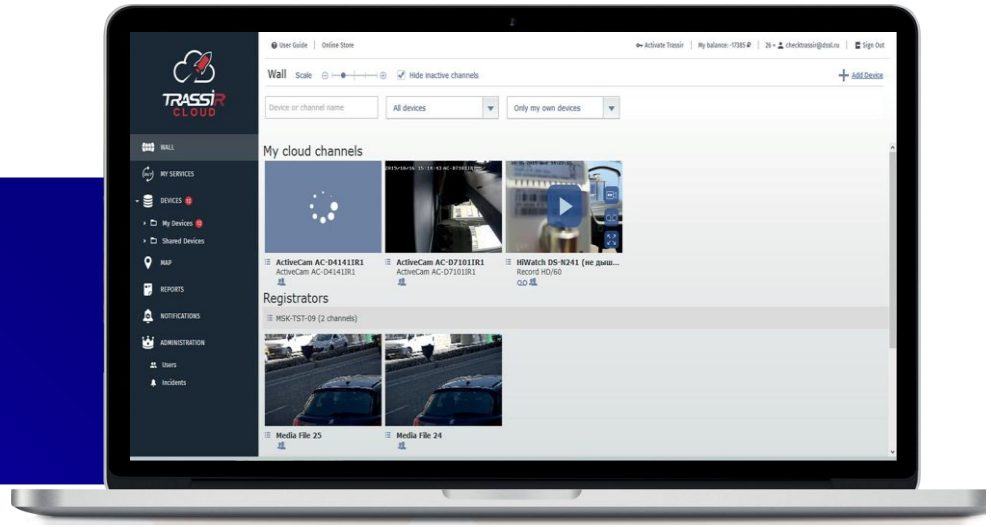
TRASSIR Cloud

Cloud-based video surveillance as an efficient, all-purpose tool for setting up systems of any scale. TRASSIR Cloud CCTV is a carrier-grade plug-and-play value-added service developed for telecoms/ISPs/Enterprises to extend their service portfolios, grow userbases, and secure additional revenue streams through cloud-based video surveillance for SMB and private subscribers.



TRASSIR CLOUD characteristics in accordance with partners

95% Quick setup

99% Good technical support

80% Competitive pricing

87% Convenient software

90% Easy to learn

White Label partnership program

- A new revenue generation channel
- A new user communication channel
- Expanded eco-system, digital transformation
- Set up custom plans and product-based ‘promo packages’ as tools for boosting sales
- No need to pay for service development: using the TRASSIR cloud product we identify user needs and customize servers together

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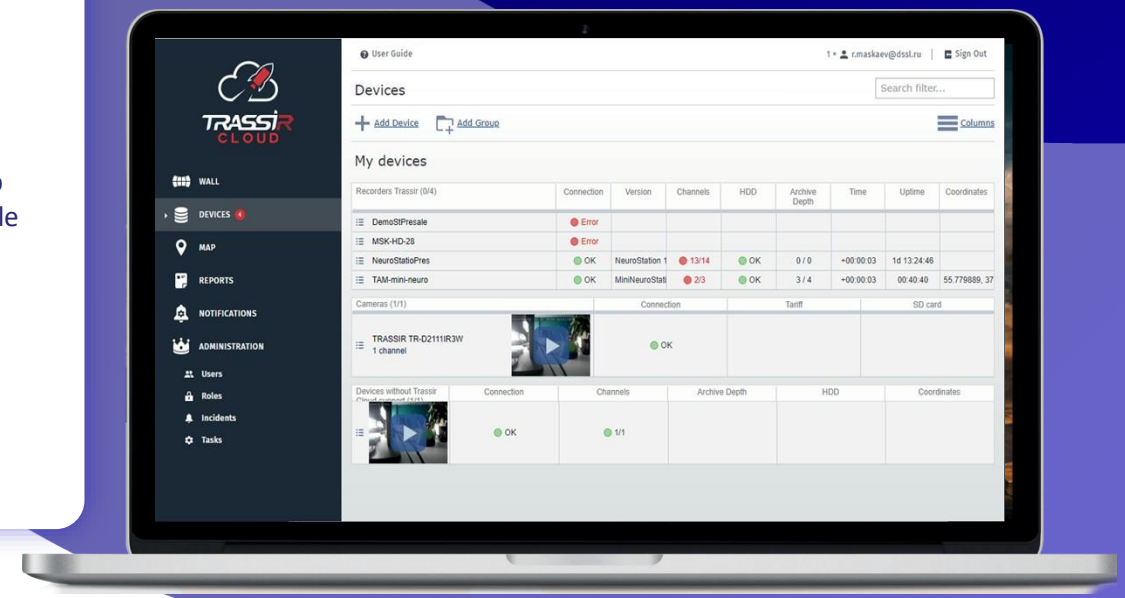
Mobile App features

- Connection of cameras and video recorders by IP address or via the cloud
- Receive PUSH notifications from video analytics
- View live and archived video
- Working with ACS: ability to issue temporary guest passes, manually open doors
- View server health indicators

TRASSIR CMS

Extensive video surveillance system management solution created for the closed IT loop of large customers

- Unified user management, LDAP
- Centralized sever management and updating
- Video surveillance equipment health monitoring
- Access to both web interface and mobile app
- Internet traffic saving
- Situation centre



TRASSIR CMS is designed for

- Over 1000 devices
- Multiple locations
- When 24/7 system monitoring is required

OUR CLIENTS AND PARTNERS ACROSS THE GLOBE

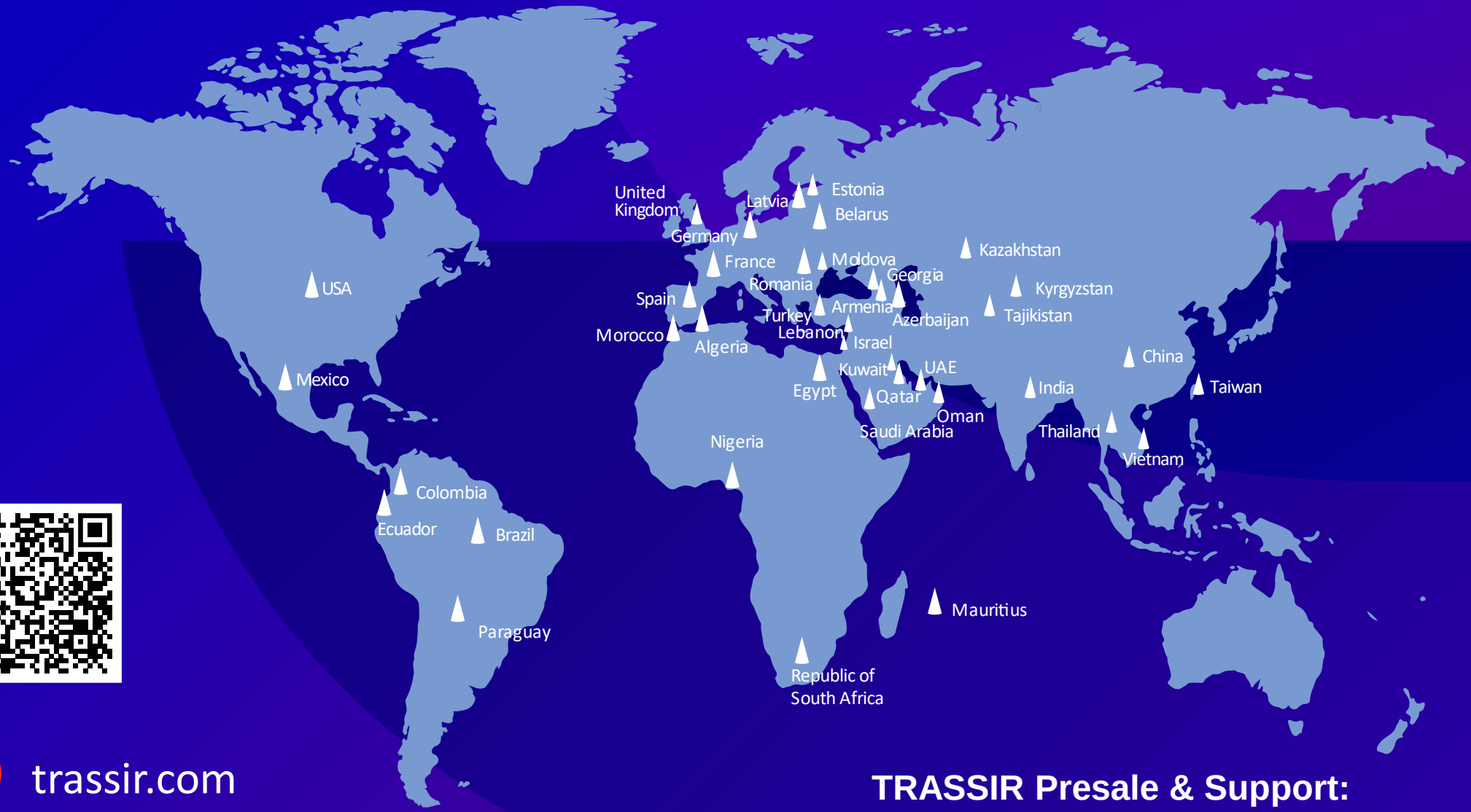
CERTIFICATION

TRASSIR equipment meets EU safety standards and other applicable requirements (CE certification)

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

Additional certificates can be obtained to meet the requirements of a specific customer's case or upon a partner's request

TRASSIR®



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