

TRASSI[®]

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, personal information and data protection



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



Archive can be encrypted. Only password owner can get access to it.

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



Wide range of solutions for various industries



BANKING

WAREHOUSES

HORECA

EDUCATION
INSTITUTIONS

RETAIL

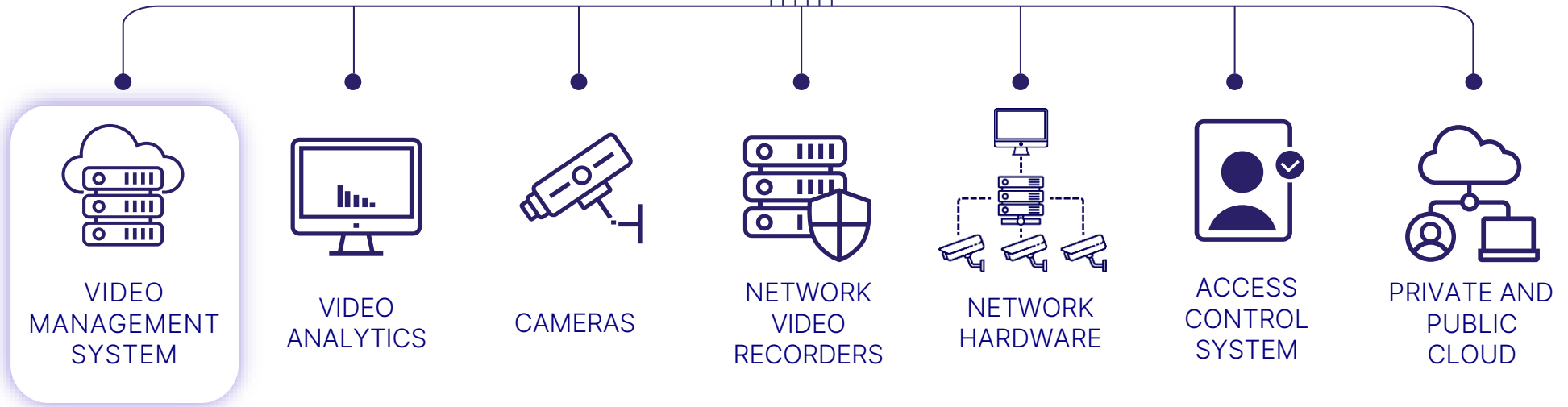
MANUFACTURING
ENTERPRISES

SMART
CITIES



TRASSI®

7in1



NEURAL NETWORKS

ARTIFICIAL INTELLIGENCE

MACHINE LEARNING

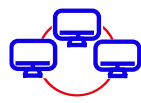
Stable software to manage the monitoring and video surveillance system for businesses of any size

- 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 multithreading 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



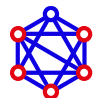
TRASSIR CMS: extensive video surveillance system management solution for large scale projects



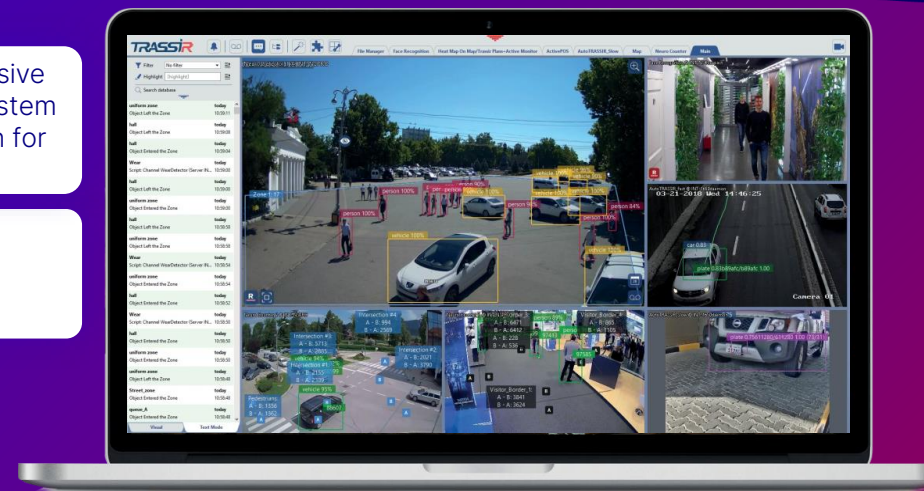
Video analytics processing on GPU for maximum return on investment



Efficient and quick search for events in the archive



Advanced neural network video analytics



VMS core licenses



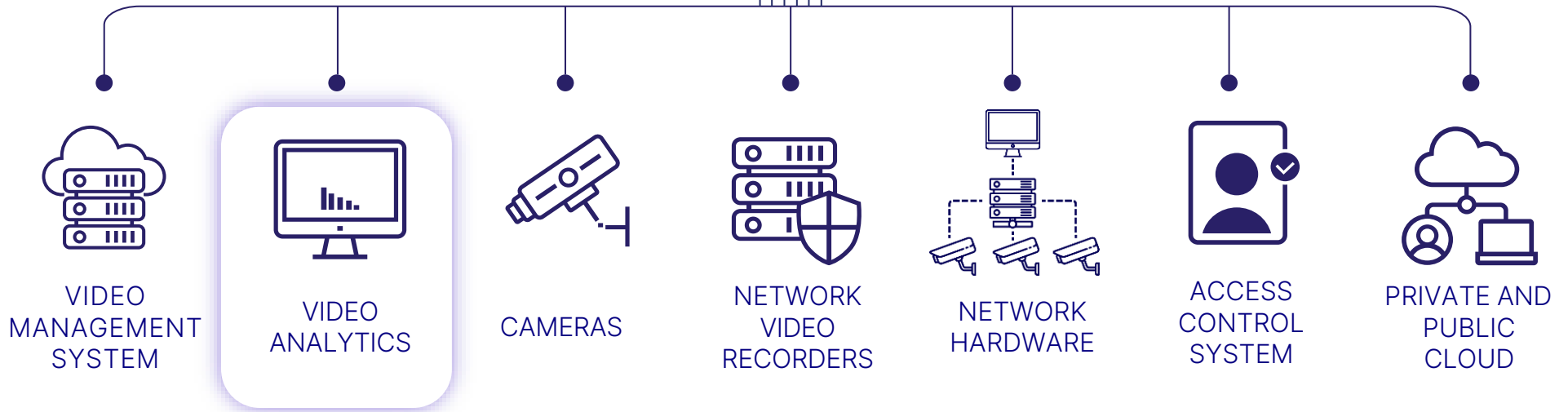
TRASSIR VMS functionality is available under channel licenses

	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 server	+	+	+	-	-	-
Installing TRASSIR VMS on a Windows-based server	-	-	-	+	+	+
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; web-interface working locally; unified user management, LDAP; solving the problem of narrow Internet channels; centralized monitoring and reports; connecting any number of servers and cameras; etc.	-	+	+	-	+	+
TRASSIR License Manager: centralized license management	-	-	+	-	-	+
TRASSIR VMS installation on a Linux-based server (Debian)	-	-	+	-	-	+
Connecting PTZ cameras, FishEye cameras, thermal imaging cameras	P	P	P	P	P	P
Neuro Detector - detects people on video with very high accuracy and generates an alarm and sends out an alert when a person enters the specific 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 with letter P are included for no additional cost in any single core license.

TRASSI®

7in1



NEURAL NETWORKS

ARTIFICIAL INTELLIGENCE

MACHINE LEARNING

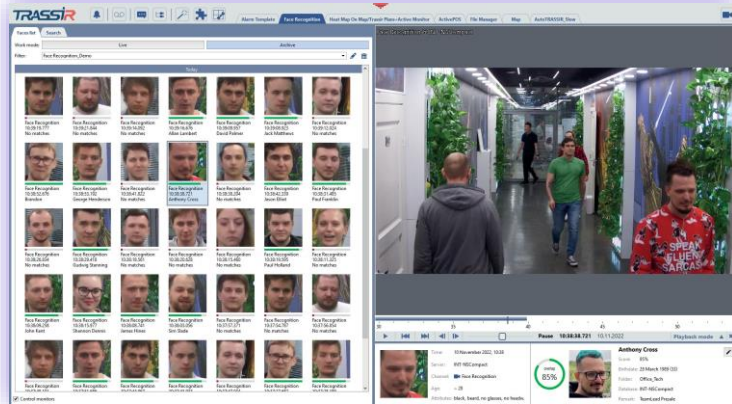
Software Video Analytics



Face Recognition Complex Solutions



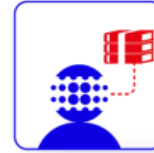
Face Recognition INT



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

- 99,8% accuracy
- Prevent access of undesirable people to the facility
- Enables obtaining of facial attributes for advanced analytics and searches based on specific parameters (race, age, sex, hair colour, beard, glasses, headwear, etc)
- Intergration with ACS
- Attendance and shift monitoring

Win64 available | Per channel



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

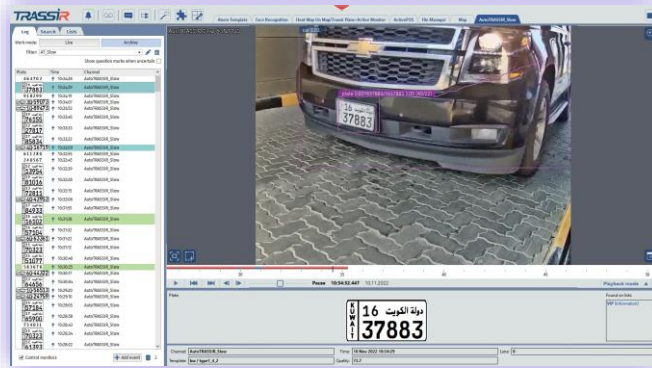
Software Video Analytics



AutoTRASSIR (LPR) Complex Solutions



AutoTRASSIR+ INT



Is designed to automatically recognize license plates in the camera's view

- Highly accurate license plate recognition
- Identifies vehicle class: motorcycle, passenger car, minivan/van, truck, bus
- Recognizes two-line numbers
- 25 countries supported including GCC
- Quick search of license plate numbers in archive
- Real time ban\white listed vehicle identification and notifications
- Integration with camera-based LPR cameras (ask your manager for specific models)

Win64 available | Per channel



AutoTRASSIR Parking INT



Is designed to monitoring the number of vehicles in the parking area

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

Win64 available | Per channel

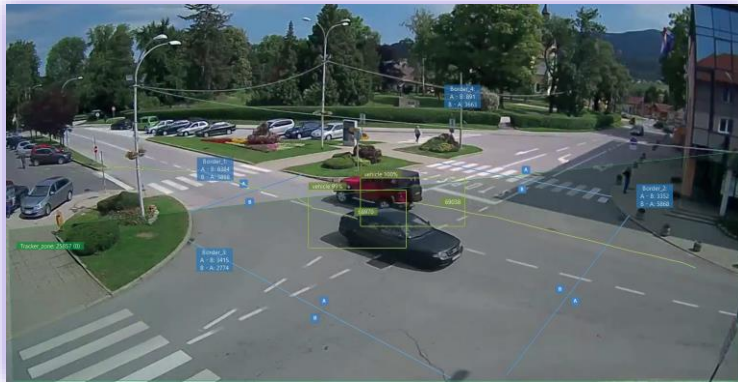
Software Video Analytics



People and Objects Detection Solutions



Neuro Counter+ INT



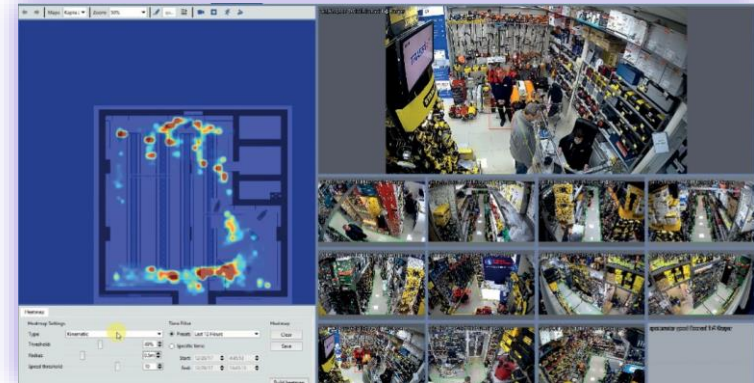
Is an intelligent video detector that provides counting of unique objects in a specified area

- 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



Heat Map on Map INT



Is an advanced thermal image analysis technology

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

Per channel

Software Video Analytics



People and Objects Detection Solutions



Queue Detector+ INT



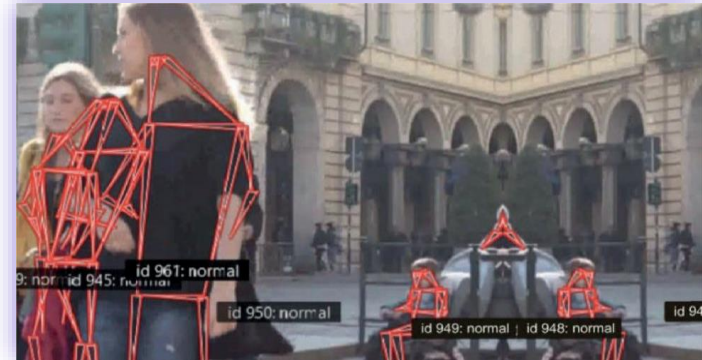
Is an intelligent video analytics system using neural networks designed to count people in a queue

- Automatic reporting: number of people in the queue, time spent in the queue
- Notification module for when queue length is exceeded

Per channel



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



Workplace Detector INT



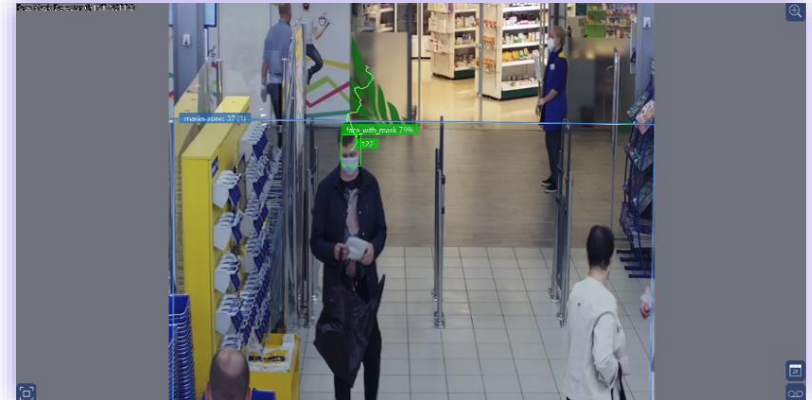
Tracks a person's absence from the workplace

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

Per channel



Face Mask Detector INT



- Monitors compliance with the wearing of personal protective equipment in conditions of increased epidemiological danger
- Sends a real-time notification if a person is detected without a protective mask in the viewing area of the video camera.

Per channel

Software Video Analytics



Work Safety Solutions



Neuro Fire & Smoke Detector INT



The module allows to:

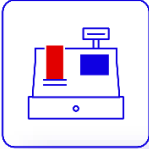
- Detect flames and smoke in the camera's visibility zone, including open spaces
- Set and receive an immediate notifications in operator's interface to properly react on it

Per channel

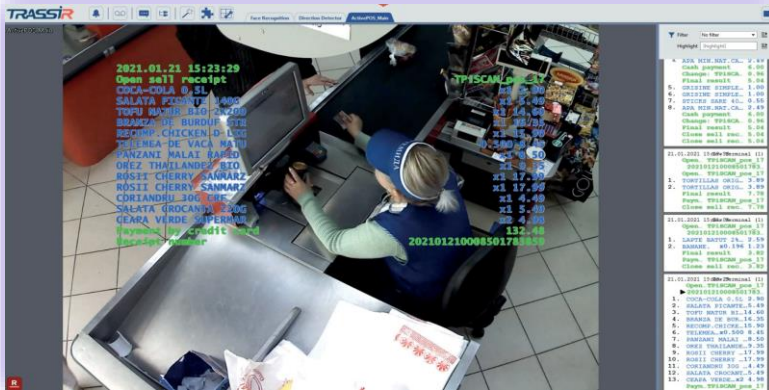
Software Video Analytics



Retail Solutions and Warehouse 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), detection of sub-par service standards, violations cash management services regulations (determined by law). Generates reports on: total losses (divided by cashier or cashbox), cashier and analyst KPIs. Requires connection with cashbox system. Integration with third party POS systems

Win64 available | Per 2 channel



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: numbers of reporting documents, product name, quantity, cell IDs, pallet, customer or organization name, and more

Win64 available | Per 2 channel

TRASSI

7in1



NEURAL NETWORKS

ARTIFICIAL INTELLIGENCE

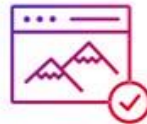
MACHINE LEARNING

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

Affordable cameras with basic features

Trend

Professional video cameras for various task levels

Pro

High-performance video cameras with unique characteristics and design protection

Ultra

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
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



TRASSIR Video Cameras. Eco line

TRASSIR®



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

- Resolution 2MP/4MP
- Hardware analytics
- Affordable price
- Indoor/outdoor models

TRASSIR Video Cameras. Trend line

TRASSIR®



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

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

TRASSIR Video Cameras. Pro line

TRASSIR®



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

TRASSIR Video Cameras. Ultra line

TRASSIR®



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

TRASSI

7in1



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 unit
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



NeuroStation 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

TRASSI

7in1



NEURAL NETWORKS

ARTIFICIAL INTELLIGENCE

MACHINE LEARNING

Network hardware

TRASSIR



POE switches

4 port facilities

TR-NS1106-60-4POE
TR-NS1406-65-4POE
TR-NS24102S-120-8PoE

8 port facilities

TR-NS1109-120-8PoE
TR-NS1110-120-8POE
TR-NS1410-120-8POE
TR-NS13111S-120-8PoE
TR-NS1410-120-8POE
TR-NS24102S-120-8PoE

16 port facilities

TR-NS11191S-285-16POE
TR-NS14202S-185-16POE
TR-NS24202S-300-16PoE

24 port facilities

TR-NS1126-225-24PoE
TR-NS14282S-370-24POE
TR-NS24284C-400-24PoE

Industrial POE switches

TR-NS15061S-150-4POE

TR-NS15122S-300-8POE

TR-NS15102S-130-8POE

POE injectors

TR-I65W2.5GPoE++

TR-I30WPoE+

TR-I60WPoE++

TR-I18WPoE+

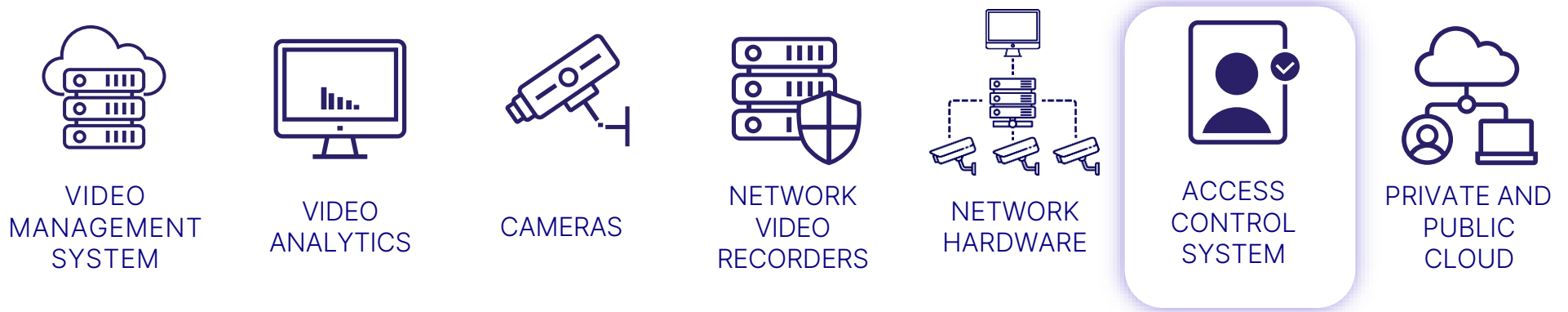
POE extenders

TR-EXP1130-3-IP65

TR-EXP1130-3

TRASSI®

7in1



NEURAL NETWORKS

ARTIFICIAL INTELLIGENCE

MACHINE LEARNING

Extended your VMS functionality with following features



TRASSIR NETSYNC INT

Archive synchronization from other TRASSIR servers



TRASSIR PACS INT

Physical Access Control and Management System on the TRASSIR platform.



Integrations with ACS and Fire Alarm systems

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

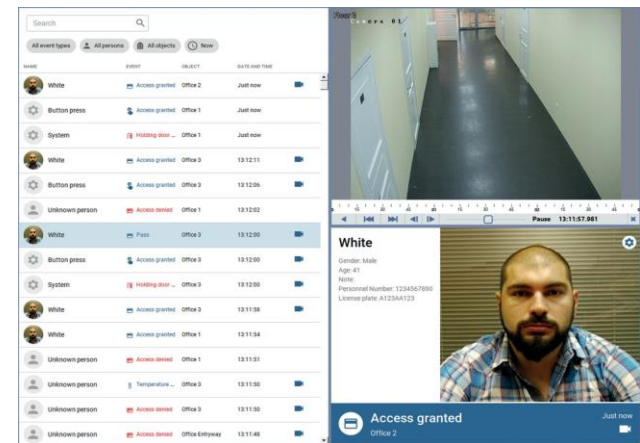
Proprietary access control and management system on the TRASSIR platform

The system includes access management, event registration and building analysis reports, employee work hour monitoring. The video analytics and intercom integration capability provides all the benefits of access control 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 the mobile app and browser



Advantages



Comprehensive solution



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

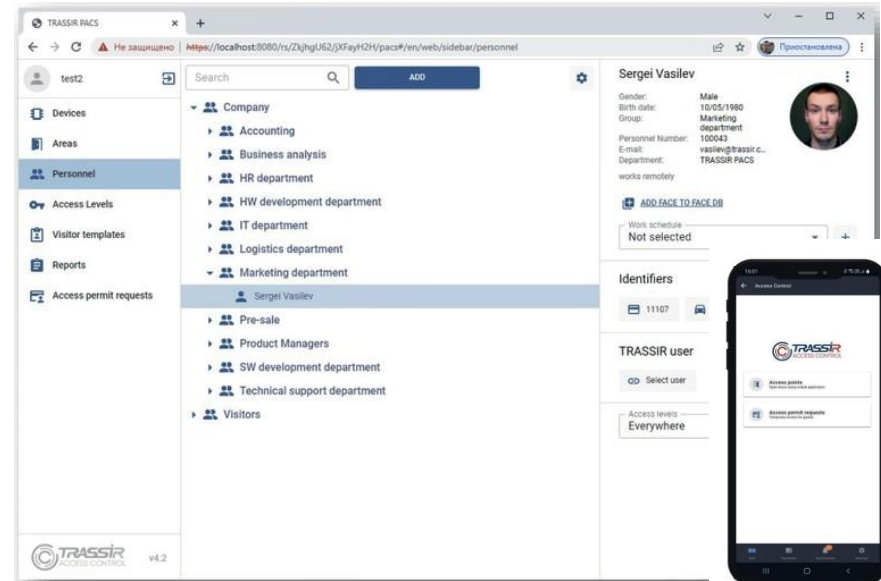


Transparent pricing

*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



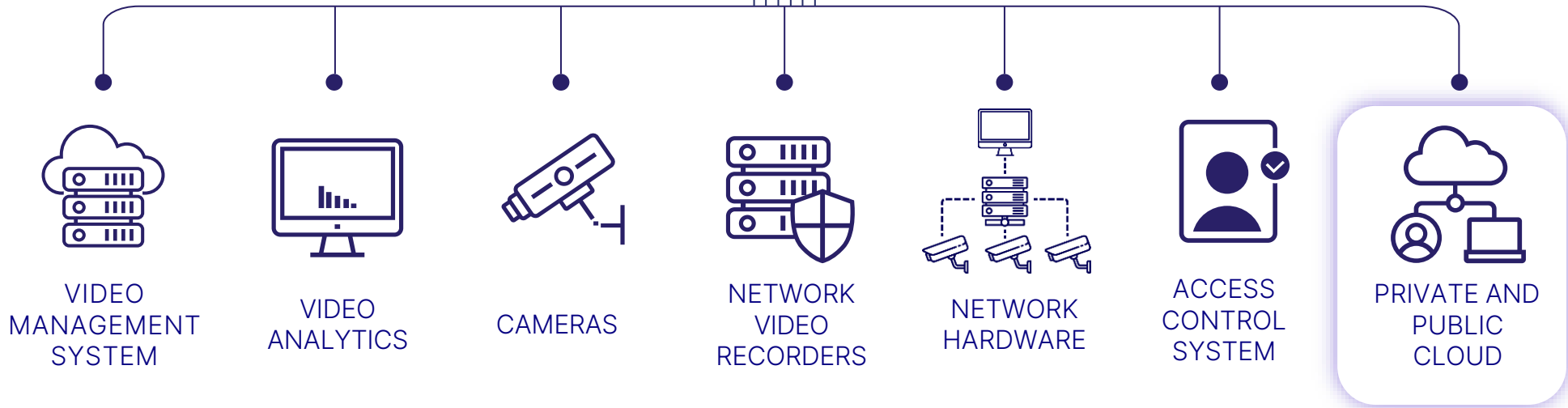
Temperature



License plate numbers

TRASSI®

7in1

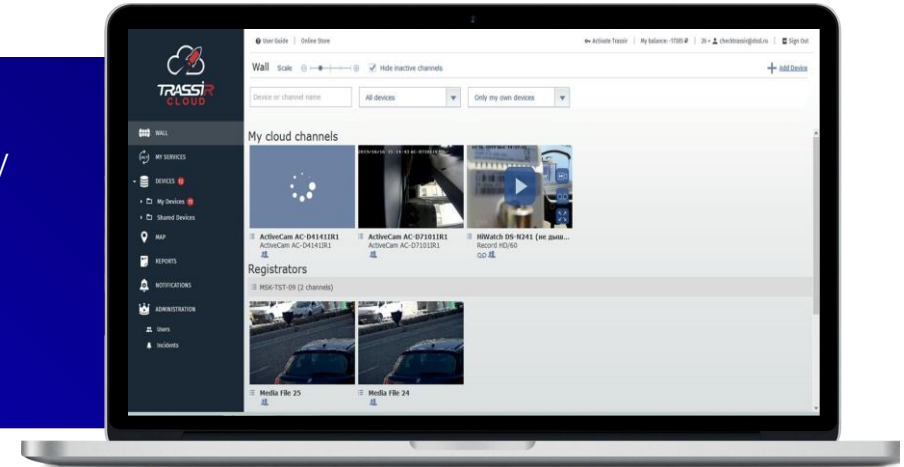


NEURAL NETWORKS

ARTIFICIAL INTELLIGENCE

MACHINE LEARNING

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 portfolio, grow userbases, and secure additional revenue streams through cloud-based video surveillance for SMB and private subscribers

TRASSIR CLOUD characteristics according to its partners

- 95%** Quick setup
- 99%** Good technical support
- 87%** Convenient software
- 90%** Easy to learn
- 80%** Competitive pricing

White Label partnership program

- A new revenue generation channel
- Expanded eco-system, digital transformation
- A new user communication channel
- 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 will identify user needs and customize the servers together

TRASSIR Cloud



TRASSIR Cloud CCTV is a carrier-grade plug-and-play value-added service developed for telecoms/ISPs/Enterprises to extend their service portfolio, grow userbases, and secure additional revenue streams through cloud-based video surveillance for SMB and private subscribers

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 a temporary guest pass, ability to manually open the door



View server health indicators



TRASSIR CMS



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



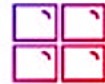
Unified user management, LDAP



Centralized sever management and updating



Video surveillance equipment health monitoring



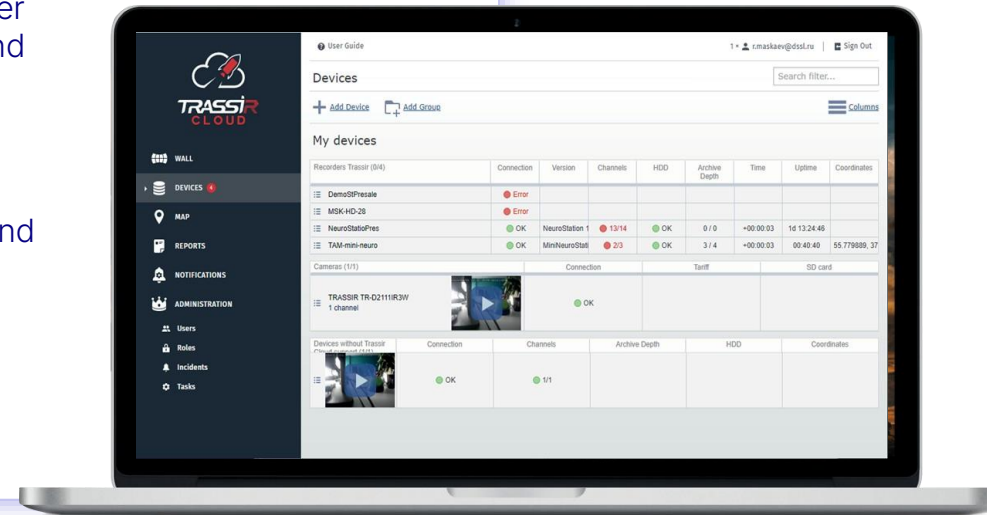
Access to both web interface and mobile app



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

TRASSIR



Certification



TRASSIR equipment meets EU safety 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 partners' request



 trassir.com

 welcome@trassir.com

TRASSIR Presale & Support:

presaleglobal@trassir.info

presaleturkey@trassir.info

presaleindia@trassir.info