



SecurOS Auto

LICENSE PLATE RECOGNITION SYSTEM (LPR/ANPR)



ISS NATIVE OCR TECHNOLOGIES AND INTELLIGENT VIDEO ANALYTIC

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ISS develops intelligent video analytic software which provide LPR/ANPR, and software-hardware products based on ISS LPR/ANPR

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The advanced algorithms of ISS native software products provide unbeatable character recognition quality under in both day and night modes under variable weather conditions

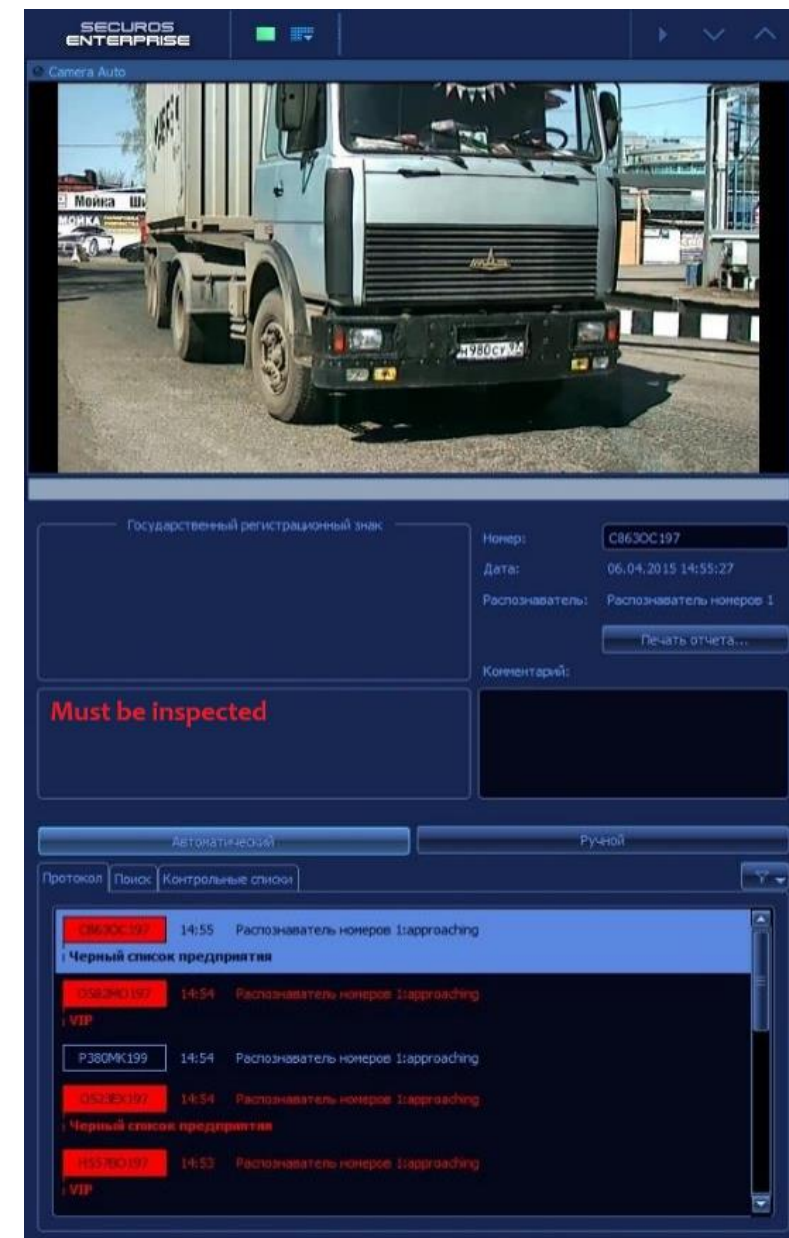
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ISS constantly enhance software to meet all modern requirements of market and customers

LICENSE PLATE RECOGNITION

SecurOS Auto

SecurOS Video Analytic module provides LPR/ANPR. SecurOS Auto designed to effectively deal with different tasks related to control of parked/moving vehicles in law enforcement, commercial, and municipal organizations



KEY FEATURES (1)

1. Template-based algorithms providing up to 98% recognition accuracy
2. Camera vendor agnostic
3. Video-based recognition, no loops required
4. ISS native technology with regular updates for new plate types (templates)
5. 15+ years of expertise. Proven to work in complex real life environment (day/night and wide range of weather conditions)
6. Accurately capture license plate information at 130 mph (210 km/h), and more



KEY FEATURES (2)

7.

Advanced Search capabilities.

Full or partial plate number including wildcard, search against watchlists and external databases

10.

Has full-featured user interface, which combines video from the LPR cameras with real-time LPR events, search, watchlist capabilities, and more

8.

Add plate numbers to local watchlists, connect external DB as a watchlist, set custom alarms for numbers found in watchlist

11.

Designed for fixed and mobile installations

9.

Excellent international coverage (most of templates for Europe, Middle East, Latin and North Americas are already integrated)



SECUROS AUTO INTERNATIONAL COVERAGE

Template based	Europe	Armenia, Austria, Azerbaijan, Belarus, Belgium, Bulgaria, Estonia, Finland, France, Georgia, Germany, Italy, Latvia, Lithuania, Moldova, Poland, Portugal, Russia, Slovenia, Spain, Turkey, Ukraine, United Kingdom
	Middle East	Bahrain, Jordan, Kuwait, Oman, Qatar, Saudi Arabia, United Arab Emirates
	Central Asia	Kazakhstan, Kyrgyzstan, Tajikistan, Uzbekistan
	South Asia	Pakistan
	Far East	China, Malaysia, Taiwan, Singapore, Taiwan, Thailand
	North America	British Virgin Islands, Canada, Costa Rica, Dominican Republic, El Salvador, Guatemala, Haiti, Jamaica, Mexico, Nicaragua, Panama, Trinidad and Tobago, USA
	South America	Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, Paraguay, Peru, Uruguay, Venezuela
	Africa	Nigeria, South Africa, Tanzania
	Australia & Oceania	Australia
OCR based	Europe	Albania, Andorra, Bosnia and Herzegovina, Croatia, Czech Republic, Denmark, Greece, Hungary, Holland, Ireland, Iceland, Liechtenstein, Luxembourg, Macedonia, Malta, Monaco, Montenegro, Norway, Romania, San Marino, Serbia, Slovakia, Switzerland, Sweden, Vatican

RECOGNITION ENGINE HIGHLIGHTS

Recognition Engine calibrated to recognize custom / vanity plates



Template based algorithms can easily differentiate between characters from license plates and others that can appear on the vehicle

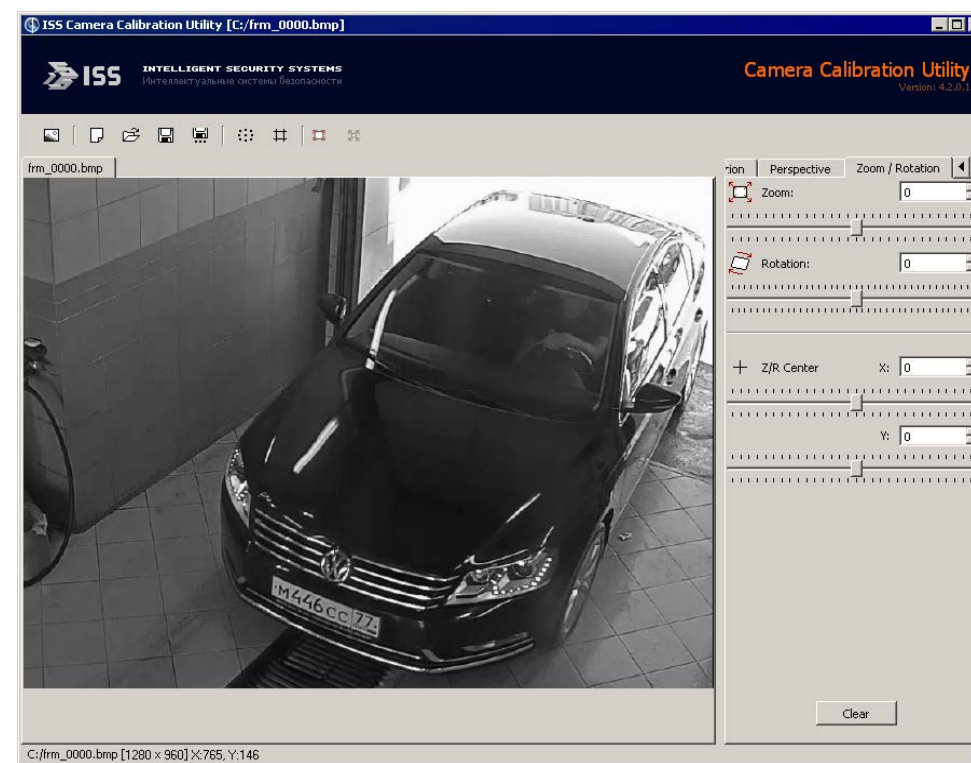


RECOGNITION ENGINE HIGHLIGHTS

Recognition Engine calibrated for high accuracy night time recognition



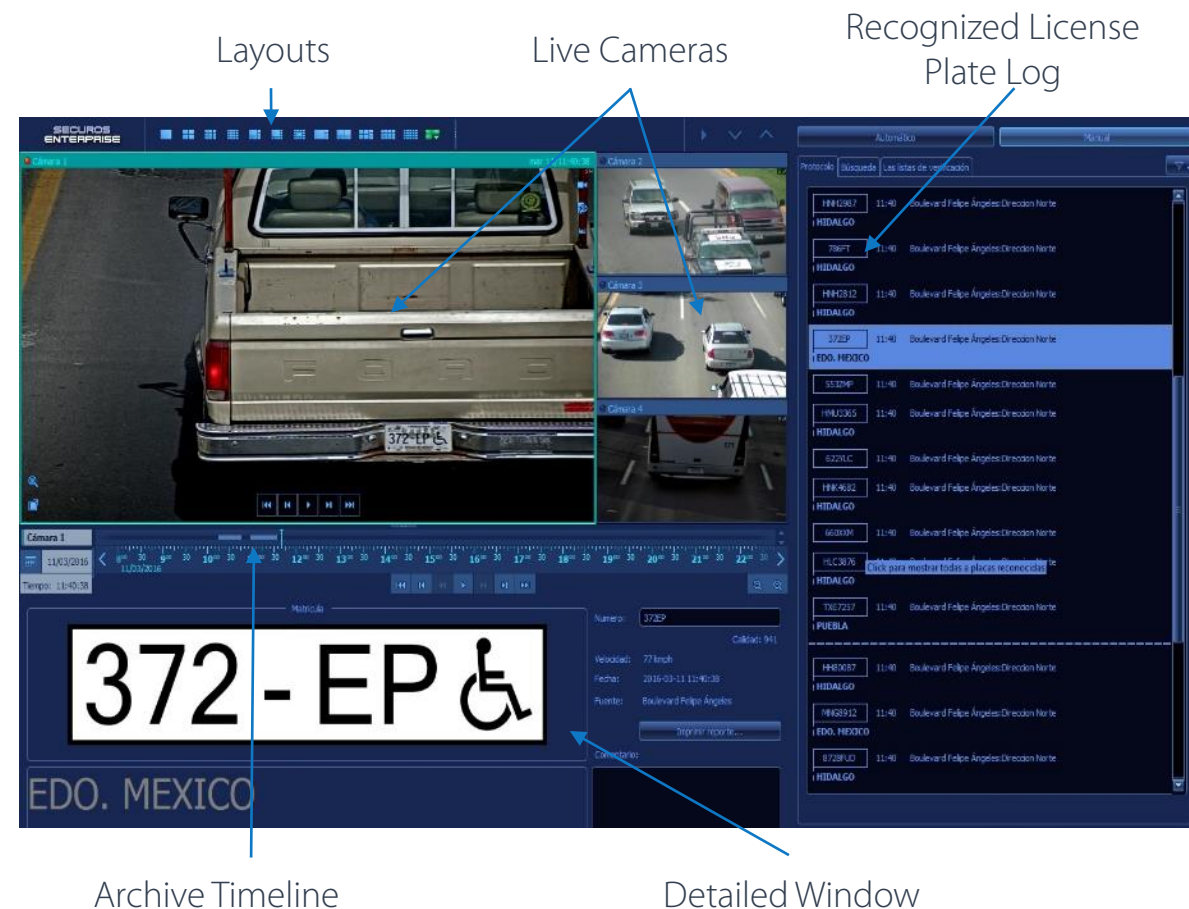
Camera Calibration Utility gives users ability to warp the image to allow high recognition even in the most extreme camera angles / positions



GRAPHICAL USER INTERFACE

Key Features

- > Monitor traffic in control points (display video both from LPR cameras and surveillance cameras)
- > Viewing and correction of recognition results (in case some characters cannot be seen and need to be edited by operator)
- > Comments of recognition results (which can be searched for at a later time by the operator)
- > Archive video or snapshot review from an LPR camera with the vehicle passing
- > Smart Search for recognition results on a number of search parameters
- > Use different watch lists (internal, external, info, whitelist/blacklist) for recognition results



PRIMARY APPLICATIONS



Law Enforcement
and Border Customs
Control



Safe Cities



Highways



Parking



Toll Plazas



Retail



PRACTICAL USE-CASES

Parking, car-parks and carwashes etc.

- > Automation of vehicle registration process without parking tickets
- > Increasing efficiency and quality of client services by automation of billing
- > Increasing staff performance
- > Warning of non-payments or overdue payments
- > Warning of illegal actions such as vandalism or vehicle theft



PRACTICAL USE-CASES

Industrial enterprises

- > Controlling of vehicles traveling in enterprises
- > Logging of vehicles passing with ability to analyze in and out periods
- > Cargo control and compliance check with supporting documentation
- > Checkpoint control
- > Optimization of logistics and business processes



PRACTICAL USE-CASES

Police and traffic police services

- Easy deployment for mobile (inside police vehicle) and fixed installations
- Seamless connection to any External Databases used by Law Enforcement
- LPR Event generation can be used for ticketing
- Integration with radar for precise vehicle speed measurement



PRACTICAL USE-CASES

Municipal government

- > Traffic control in secure facilities
- > Improving quality of service in toll plazas or checkpoints to toll areas and roads
- > Automatic collection of information used by toll facilities for analysis and reports

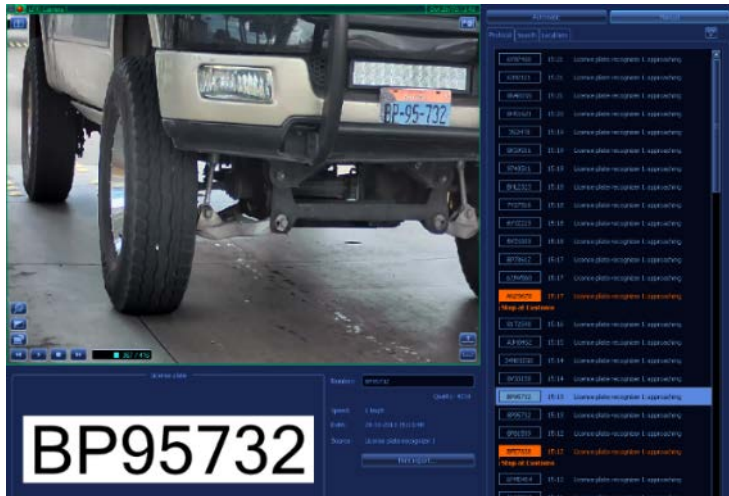


RELATED SOFTWARE PRODUCTS OF SECUROS AUTO

SecurOS EdgeAuto

A special integrated solution for LPR/ANPR embedded on supported IP-cameras

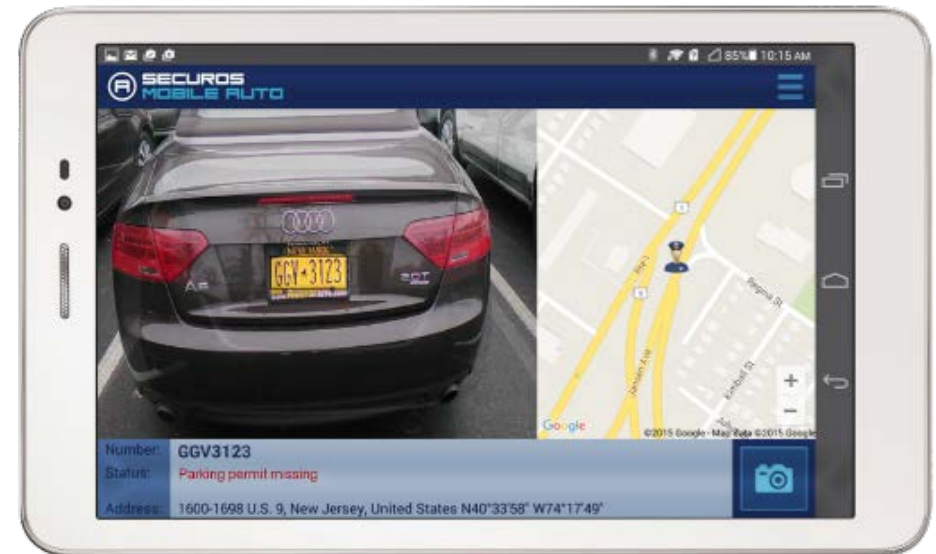
It is targeted for applications where the camera has a limited connection with the server, and it is necessary to perform real-time license plate recognition as well as have the corresponding video archive on the server for long-term storage.



SecurOS MobileAuto

LPR/ANPR mobile application

LPR/ANPR mobile application designed for working in field conditions. The solution is intended for municipal and police authorities and the security services of commercial enterprises.

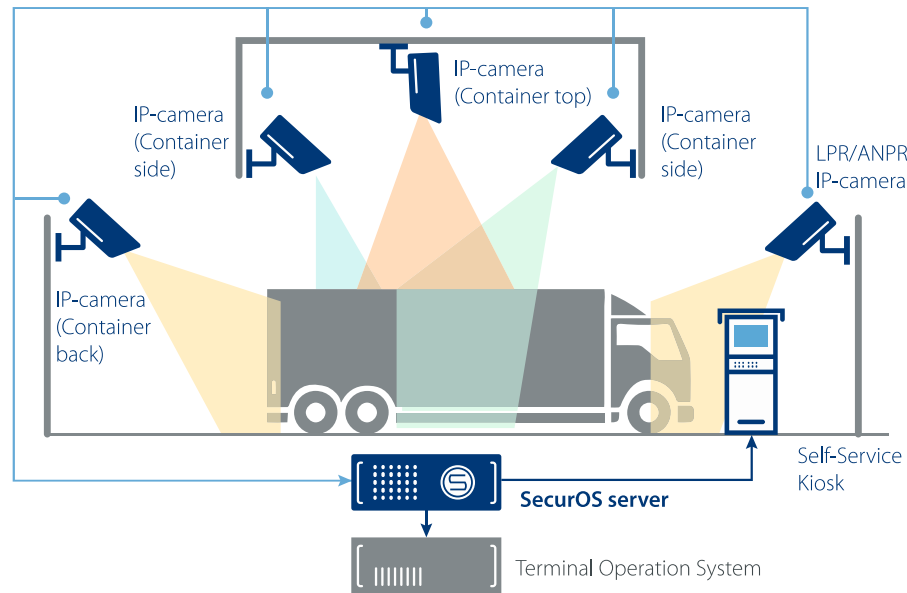


RELATED SOFTWARE-HARDWARE PRODUCTS OF SECUROS AUTO

SecurOS Cargo Terminal

Visual inspection and automation of terminal gates

SecurOS Cargo Terminal facilitates data flow processing and seamless integration with Terminal Operation System



SecurOS Flatimus

Under Vehicle Surveillance System

SecurOS Flatimus creates a database of high-resolution undercarriage images and recognizes vehicle license plates.



RELATED SOFTWARE-HARDWARE PRODUCTS OF SECUROS AUTO

SecurOS Motus

Specialized Turnkey Solution for LPR/ANPR

SecurOS Motus 452 is an IP-based automatic license plate recognition camera designed for SecurOS Auto — High-speed. It provides unbeatable ANPR precision for commercial facilities and law enforcement applications.



SecurOS Crossroad

Detection of Complex Traffic Violations

SecurOS Crossroad is an edge-to-edge solution for traffic violations detection. It combines specialized ruggedized hardware components and software for high precision detection and automatic license plate recognition (ANPR).



REFERENCES | SAFE CITY RECIFE, BRAZIL



- Multi-agency solution
- 12,000 cameras in total
- License Plate Recognition
- Multiple monitoring centers
- Expansion of current city project into entire state

Recife is the fourth-largest urban agglomeration in Brazil with 3,995,949 inhabitants, the largest urban agglomeration of the North/Northeast Regions, and the capital and largest city of the state of Pernambuco in the northeast corner of South America.

REFERENCES | SAFE CITY GUATEMALA, GUATEMALA



- City wide surveillance - 6,000+ cameras
- SecurOS Auto (LPR/ANPR) - 300 channels
- SecurOS Face - Face Recognition
- 14 Petabytes of Video Storage
- Command and Control Center
- 3rd party integrations
- Open Platform
- VMS Capabilities

Guatemala City is the capital and largest city of the Republic of Guatemala, and the most populous in Central America. In 2012, it had a population of 2,110,100.

REFERENCES | SAFE CITY ASUNCIÓN, PARAGUAY



- City wide surveillance cameras
- License Plate Recognition
- Wireless Transmission
- Long Term Storage
- Police Station Access
- Integrated Video/Audio
- Safe Community

Asunción is the capital and largest city of Paraguay. The Asunción metropolitan area has around two million inhabitants. It is one of the oldest cities in South America and the longest continually inhabited area in the Río de la Plata Basin.

REFERENCES | SUEK, RUSSIAN FEDERATION



4 terminals in the cities: Kemerovo, Leninsk - Kuznetsky, Novokuznetsk, Krasnoyarsk

- Train Carriage Recognition (29 channels)
- System of formation cards where shipping coal weight subject to car weight is automatically entered
- Integration with Federal Railways system of the centralized preparation and issuance of transport documents

SUEK is RF's largest coal producer and one of the leading coal companies in the world

REFERENCES | CARGILL, EPHREMOV, RUSSIAN FEDERATION



- SecurOS Enterprise video management system
- Video analytics: License Plate Recognition , Train Carriage Recognition
- Integration with ERP-system to accelerate and improve the efficiency of logistics processes
- Integration with Access Control system and Fire Alarm

Cargill is an international producer and marketer of food, agricultural, financial and industrial products and services

REFERENCES | SEVERSTAL-METIZ, CHEREPOVETS, RUSSIAN FEDERATION



- Video surveillance of the industrial facility
- Work-time control
- License Plate Recognition
- Train Carriage and Cargo Recognition
- Weight-control station
- Detection of safety measures violations

Severstal-metiz is a group of companies which unites the metalware assets of the Severstal company. It is among the Top-5 European producers of wire and wire products in its segment.

REFERENCES | BRONKA SEA PORT, SAINT-PETERSBURG, RF



- Visual Inspection and Automation of Terminal Gates
- License Plate Recognition
- Container Recognition

REFERENCES | PORT OF SANTO TOMAS, GUATEMALA



- Global video control (Samsung Cameras)
- License Plate Recognition
- Container Recognition
- Face Recognition
- Streamline Operations
- Cut Down costs
- Increase overall efficiency

REFERENCES | PORT OF PECEM, BRAZIL



- Container recognition (36 channels), ANPR (34 channels), and Face Capture utilized to increase operational efficiency threefold saving millions of dollars in ground infrastructure costs.
- Situational awareness – PIDS system integrated for complete view of facility.
- Integration with port operations systems, weight scales, and terminal management systems.
- Solution drives significant ROI – cargo is processed nearly three times faster as it leaves port by integrating with Weight stations similar to a POS terminal overlay.

REFERENCES | PORT OF ITAJAI, BRAZIL



- Global video control
- License Plate Recognition
- Container Recognition
- Integration with Port Management System

REFERENCES | MEGA SHOPPING MALL KHIMKI, RUSSIA



- Based on Bosch BVMS, ISS is used for LPR - SecurOS Auto - 150 Bosch cameras
- Integration with police data base – data transfer into Law Enforcement top-level system

REFERENCES | HOUSE OF MOSCOW GOVERNMENT, RUSSIA



- ISS based central equipment + Bosch cameras
- SecurOS video surveillance, situational awareness video analytics, LPR and face recognition - 400 Bosch cameras in total

REFERENCES | TOLL ROAD M4 «ROSTOV – DON», RUSSIA



- 3 sites of M4 highway «Rostov – Don»
- Distributed video system for situation monitoring and control on the roads – more than 300 IP Cameras
- License Plate Recognition - more than 60 recognition channels

REFERENCES | ALVORADA PALACE - OFFICIAL RESIDENCE OF THE PRESIDENT, BRAZIL



- CCTV monitoring - 300 cameras in 8 buildings of residence area
- 25 channels of License Plate Recognition
- 15 channels of Face Recognition
- Monitoring and Control Center

REFERENCES | COUCHE-TARD, CANADA



- 50,000 security related devices in the network
- 750 SecurOS Video Servers
- 12,000 Cameras
- 1,400 Point of Sale Transaction
- License Plate Recognition
- Synchronized Audio - 750 microphones
- Over 2 PetaBytes of distributed video storage
- Fire & Security Integration
- Centralized Management

REFERENCES | BERGEN COUNTY, NJ, USA



- 2,100 cameras (Samsung, Mobotix)
- Federated architecture secures courthouse, jail, multiple office complexes, remote data centers
- License Plate Recognition
- Access Control and RFID system integrated into visualization platform
- 300+ Operator Workstations using the system



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