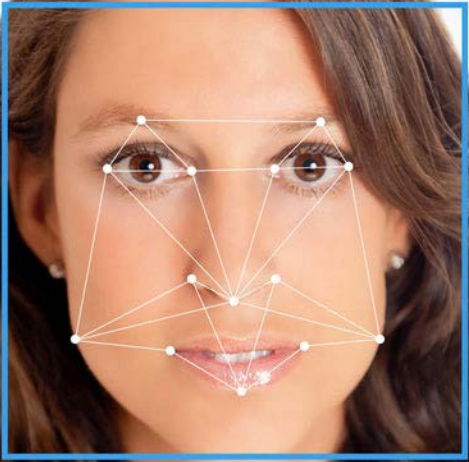


00000 000 0 00000000 00100111
0000 0 0000 0 0 0 00 100010111

010011000010 01000111000110
001011101010000111110101010
1101000010 10 11111000001001



IDENTITY PROTECTION

Name:

Password:

00000 000 0 00000000 00100111
0000 0 0000 0 0 0 00 100010111

010011000010 01000111000110
001011101010000111110101010
1101000010 10 11111000



SecurOS Face

FACE CAPTURE & RECOGNITION SYSTEM

FACE CAPTURE & RECOGNITION SYSTEM

SecurOS Face is an Image Analytics Module for SecurOS and provides Face Capture & Recognition with a high accuracy level in a wide variety of challenging conditions and as such, is ranked among the most accurate of all Face Recognition systems in the marketplace.

The reason for such a high level of accuracy has to do with the background of ISS in image analytics technology, and the related expertise with advanced algorithms, which then identifies and matches an individual's specific features with relentless attention to every detail.

Primary Applications



Safe Cities



Manufactures /
Enterprises



Law Enforcement and
Border Customs Control



Retail, HoReCa



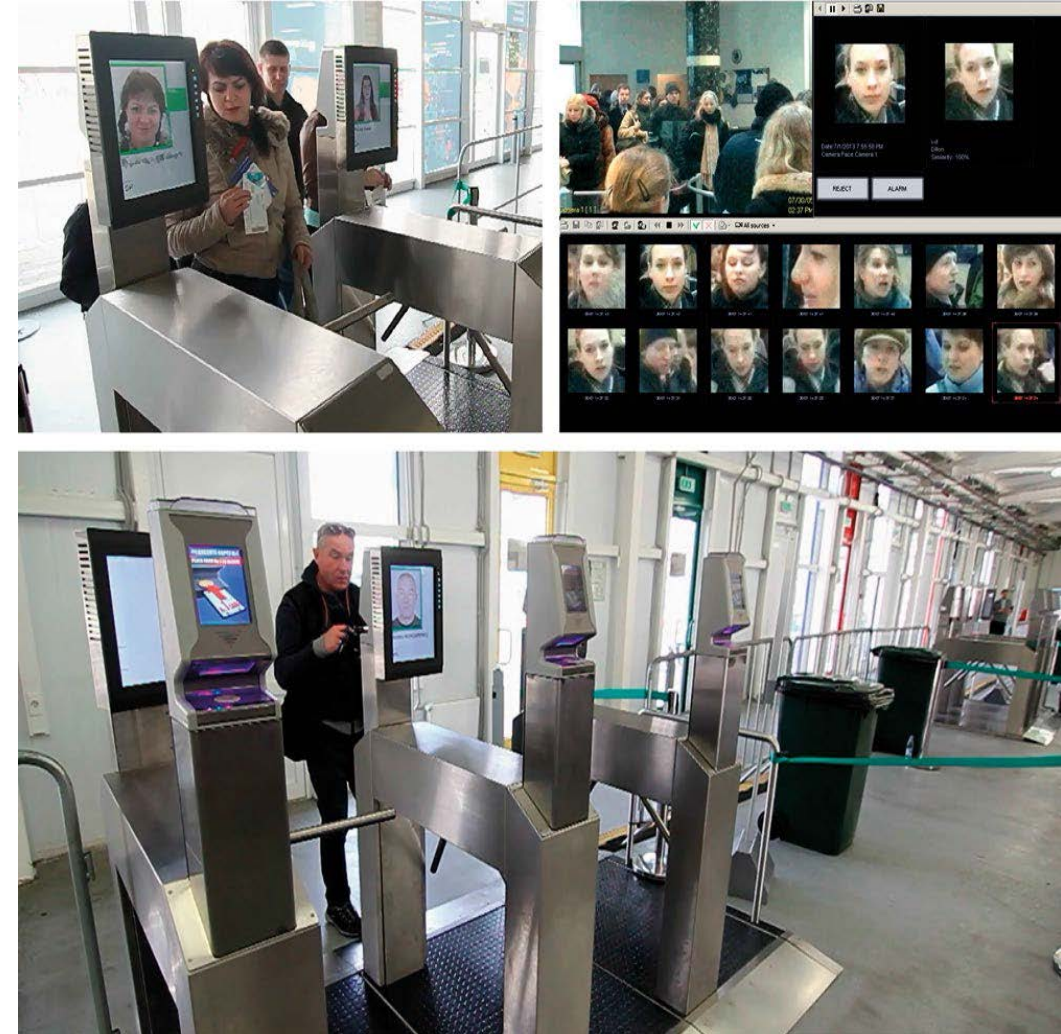
Sporting Venue

FACE CAPTURE & RECOGNITION SYSTEM

SecurOS Face detects, captures, and recognizes multiple faces per second for effective use in crowded environments. The system features Automatic optimal face position, transmission & comparison regardless of changes in skin, hair, etc.

SecurOS Face provides the necessary security level on objects where registration, identification and/or authentication of subjects is required, including:

- > Entrances of railway stations, airports, subway, sporting venue, etc.
- > Border customs control
- > Video verification of access control, etc.



FUNCTIONALITY

Recognition and reaction

Simultaneous Multiple Face Capture & Recognition

- > SecurOS FACE detects, captures, and recognized multiple faces per second for effective use in crowded environments
- > Automatic localization and capture of all persons in site of video cameras

Advanced Event / Response Management

- > Time schedule engine, adjustable thresholds, advanced scripting capabilities, active user response option, and alarm management
- > An opportunity to manually confirm or reject compliance of the recognizable image with the available standard image from DB

Search and database usage

Smart Search

Real-time, high-accuracy comparison of two or more face samples simultaneously against watchlist or external DB

Advanced Search

Search results include face capture, first and last name, date and time, etc.

Watchlists

Add people and images to watchlists and set custom alarms for matches

System Automation

Robust event/reaction management capabilities include automatic notification (phone, email, SMS)

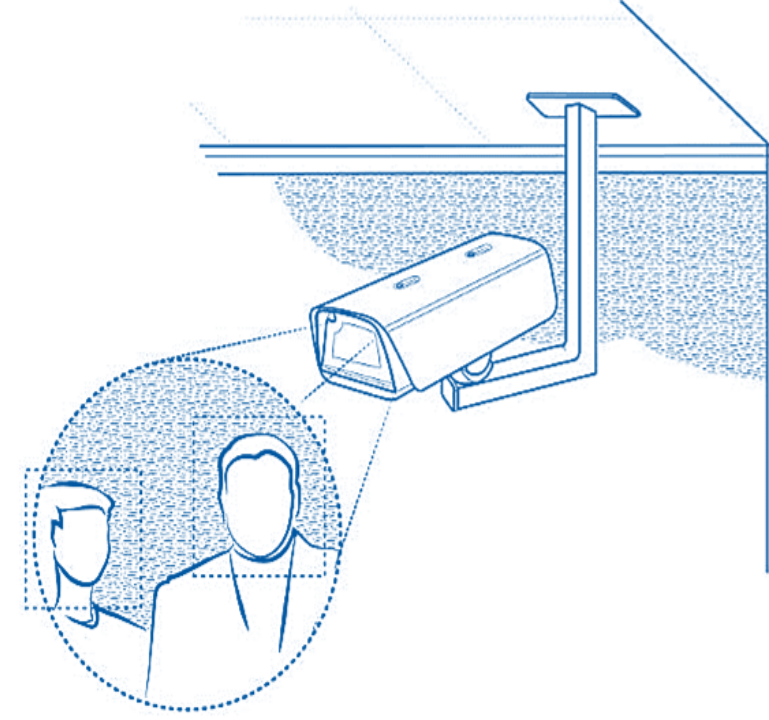
DB Connectivity

Import/Export Capabilities, along with unlimited number of face capture detectors within a security network, create one centralized recognition database

ADVANTAGES AND RECOGNITION QUALITY

- > Age, gender, glasses and race analysis
- > Work with live video and large volumes of photo / video archives
- > Photo/ Video archive processing mode
- > Flexible architecture face capture and recognition modules $FCR = n \times FC + FR$
- > Flexibility in FCR performance optimization
- > Full use of the advantages of the SecurOS VMS and the ability to integrate with other systems, such as access control systems

- > Recognition speed (in a single-processor configuration of the server) - up to 5 people per second
- > Comparison speed of the recognizable person with standard images of DB from 100 000 records – 2 people per second
- > Volume of the database allows to store up to 100 000 records; for the positive comparison the volume of archive is limited only volume of the hard drive

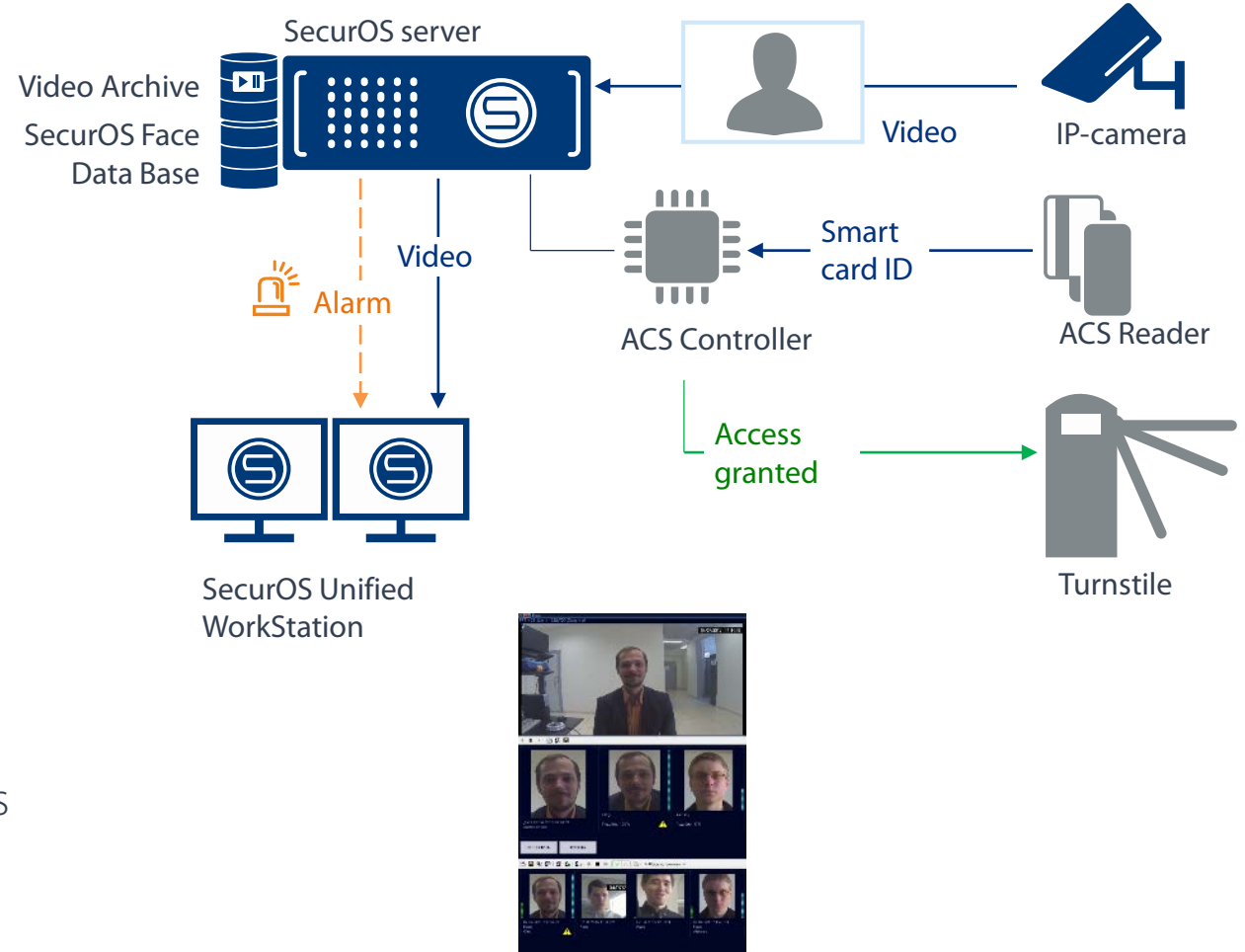


INTEROPERABILITY WITH ACCESS CONTROL SYSTEMS

Integration with the various equipment and program complexes significantly expands a range of the tasks connected with automatic identification persons

Targets

- > Prevention of the smart card transfer to another person
- > Person locating
- > Automated attendance records
- > Recognition of V.I.P. guests or unwanted persons
- > Protection of high security areas



SECURITY & BUSINESS SOLUTIONS

Asset Security	> Access permissions, restrictions and rights & privileges of persons in protected areas > Formation of a database of personnel and visitors with tagged data such as date and time, location and association of such with a facial image > Advanced event/response management including time schedule engine, adjustable thresholds, and alarm capabilities
Law Enforcement	> Unattended object detection > Identify clusters of people > Intrusion into restricted areas
Customs and Immigration inspection	> Identifying persons in accordance with the established lists > Increase the overall efficiency of the passport control
Access Control System	> Automatic registration of all people passing through a controlled zone > Identification from a watch list for prevention of access to secure areas > Real-time information regarding access of searched or tracked persons

REFERENCES | International Airport of Rio de Janeiro, Brazil



Airport security system based on SecurOS VMS

- 2000 surveillance cameras are under SecurOS VMS control
- Integration with alarm systems, PIDS, PIMS, access control system
- Intelligent video analytics implementation (SecurOS Auto, SecurOS Cargo, SecurOS Face, situational awareness video analytics)
- Integration of SecurOS Auto with ACS (access control system)
- The fault-tolerant architecture based on VMWare / HiperV

REFERENCES | National Stadium, Peru



SecurOS VMS (Premium edition)

- 110 video channels for one of the largest stadiums on the South American continent
- SecurOS Face Recognition at key entrances - 11 cameras
- Over 300 cameras integrated into police command center

REFERENCES | Sao Paulo Metro, Brazil



Video Surveillance and SecurOS Face Recognition

- 1000+ cameras, 50 metro stations across 3 lines, central command and control, 50+ simultaneous operators.
- Distributed and federated architecture for local monitoring and centralized emergency incident management
- 3.000.000 people/day rides on the metro system

REFERENCES | New York Palace Hotel, USA



- Video Surveillance based on SecurOS
- System of capture and facial recognition SecurOS Face
- Interoperability with Access Control System

Near 100 cameras provide situational control of an input zone and rooms of the general access (halls, corridors and t.p.), and also allow to detect emergence in a zone of monitoring of persons from "black" and "white" lists.

REFERENCES | Investment Technology Group, USA



- Video Surveillance (SecurOS Enterprise) - 86 IP-cameras
- SecurOS Face Capture and Recognition – IP-cameras
- Ipad check of employees in emergency evacuation – human resources application
- ITG wins e-FX award Best Transaction Cost Analysis Technology

Investment Technology Group, Inc. is a United States-based multinational agency brokerage and financial markets technology firm aimed at a hedge fund and asset management clientele.

REFERENCES | Arbitration Court in Moscow, Russia



- 300+ surveillance cameras under SecurOS control
- SecurOS Face – 100+ channels
- Integrated Access Control System

Solution:

- Perimeter and adjacent territory monitoring
- Situational video monitoring on all 17 floors of the building, including supervision of visitors in public receptions and queue control
- Control movements of employees and differentiation access
- Long-term video archive

REFERENCES | Casinos, Portugal



17 Casinos in the Network - IBM rtVMS
(SecurOS VMS, Enterprise edition)

- 4000 cameras (3000 Axis PTZ P5534 + 1000 Arecont for Surround Video)
- SecurOS Face Capture & Recognition
- People Tracking
- Unattended Objects

REFERENCES | Ceara State Prison System, Brasil



- 600+ Axis Cameras under SecurOS control
- SecurOS Face Capture and Recognition
- Monitor Internal and External Perimeters and Movements Between Facilities

AXIS Case Study :

http://www.axis.com/success_stories/viewstory.php?case_id=2830



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