FACE CAPTURE & RECOGNITION

90% Recognition Accuracy greater than *In optimal conditions*

***ieIntelligent Escalation** - An electronic security surveillance solution with built-in video analysis & workflow engine. It built on an internationally renowned security surveillance engine with worldwide installations.

FCR is an intelligent module for ***ieIntelligent Escalation**, which provides face capture and recognition.

FCR is an effective tool providing safety and security with passive recognition of subjects (the subject need not know of surveillance). The system can work in standalone mode or be integrated into access control or other third party systems to enhance functionality.

Advantages Of The Technology

- No physical contact of the user with the system required.
- Face can be recognized when person moves, without stopping in the zone of recognition.
- Simultaneous face recognition for all people which appear in the field of a camera view.
- Recognition even if face characteristics have changed: aging, facial hair, skin color.
- Adaptation to various lighting conditions.
- Use of various kinds of images from photos, Mykad etc.
- High accuracy of identification for comparison of two or more faces simultaneously.

Identify & Track

- Automatic registration of all people passing through a controlled zone.
- Identification from a "block list" for prevention of access to secure areas.
- Real time information regarding access of searched or tracked persons.

Secure Your Assets

- 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, direction, and association of such with a facial image.
- Advanced event/response management including time schedule engine, adjust- able thresholds, and alarm capabilities

P&O

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FACE CAPTURE & RECOGNITION TECHNICAL SPECIFICATIONS

Key Functionalities

- Automatic localization and registration (capture) of all persons in sight of video camera.
- Real time face recognition.
- Visualization of the image on the monitor screen: display of live video and recently recognized faces.
- Formation of video archive database for navigation with tagged data such as date and time, telemetry and direction, and associating such with a facial image information search in the given parameters in a database and video- archive.
- Comparison of faces with images from a database, including "accept list" and "block list".
- Robust event / reaction management capabilities.
- Incident management with built in workflow engine increases speed in response time.
- Program new functionalities or adjust existing features using scripting interface

Advantages

- No special cameras required.
- Specify reaction to positive comparison.
- Simultaneous multiple face detections.
- Detection during high-speed movements.
- All video associated to faces.
- Controlled area search & capture.
- Automatic optimal face position, transmission, & comparison.
- Multiple camera environment.
- Remote database query, monitoring & storage.
- Integrate access control, biometrics & other devices.
- High speed of identification - less than 1 second.
- Instant data search in video archive automatic notification (phone, e-mail, SMS).
- Distributed, modular architecture.
- Multiple face captures per server, unlimited number of aggregate face capture detectors within a security network all reporting to one centralized recognition database

Metrics

Recognition accuracy with illumination greater than 250 lux	greater than 90%
Maximum volume of database (for face capturing / for face recognition)	unlimited / up to 500 000 faces
Volume of face information stored by the system (for 100GB HDD)	not less than 5 million records
Time of recognition and identification (for database of 100,000 records)	less than 1 sec
Maximum speed of recognition and identification (for single processor configurations)	up to 7 faces/sec
Data transfer capabilities (for networking configurations)	any network supporting TCP/IP protocol