LICENSE PLATE 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.

LPR is an intelligent module for ***ieIntelligent Escalation**, which provides license plate recognition and comparative analysis for all types of vehicles.

LPR works in a wide range of external conditions, and is easily integrated into legacy security equipment & external databases. LPR is an effective tool for the solution of registration tasks, identification & access control of vehicles, control and incident management of traffic.

Incident management with built in workflow engine allows management of traffic offences.

Automation Of Parking Installations

- Solution for parking areas, providing vehicle safety, increase of speed and quality of service, and reduction of unauthorized access, fraud and theft.
- Automatic registration and archival in database of video image, date, time, plate number.
- Comparison of information at arrival / departure of vehicle.
- Simplified information search in database on the plate numbers, date or time of parking.
- Integration with barriers, automatic gates.
- Integration with parking management systems.

Protection Of Strategic Areas

- Effective component for strategically sensitive areas, such as industrial enterprises.
- Automatic registration of car arrival / departure with data storage of plate numbers, date and time of pass.

- Remote management capabilities.
- Integration with the gravimetric equipment, devices on entrances/exits, as well as with workflow systems for effective automated account management.
- Creation of detailed statistical reports.
- Video-control in real-time of loading /unloading processes of raw materials or finished goods.

Cities/local Council Services

- ***ieIntelligent Escalation** workflow engine allows traffic management to create a safe traffic hub for Cities/Local Councils.
- Restrictive entry into areas based on preset policies.
- Creation of detailed statistical reports.
- Integration with toll payment systems.
- Effective tool for police and Cities/Local Councils services: vehicles may be flagged for search, analysis and alarms

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LICENSE PLATE RECOGNITION
TECHNICAL SPECIFICATIONS

Key Functionalities

- Detection of a car in frame with automated choice of the frame for optimum size and clearness of license plate.
- Database synchronizes and allows search for all images, video, information of time, date, direction of vehicle pass.
- Integration with external databases, including prohibition/permission of pass, automatic notification regarding Pass of vehicle with a flagged license plates, etc.
- Capable of effective recognition at speeds of up to 150 kph.

Advantages

- Provides advanced reaction capability and automatic operator notification based on license plate recognition and/or comparison with information from a database.
- Integration with the third party equipment and devices: barriers, automatic gate, automatic systems of calculations, etc.
- Organization of video channels, remote real-time management, access to the archive and remote control of the system.
- High quality recognition in various conditions and luminosity.
- Fast adaptation for work with new standards of license plates.
- Effective solution of tasks of different complexity: from management of cars within a parking zone to traffic control, auto-processing and generation of customized templates reports in prints or emails.

Metrics

Allowable speed of movement of vehicles	up to 150 kph (90 mph)
Recognition accuracy in daylight and at night with artificial illumination greater than 50 lux	greater than 95%
Recognition accuracy at night with no artificial illumination (illumination less than 50 lux)	greater than 60%
Size of the controlled area for a single camera	width: 4m / length: 20m
Allowable interval of movement of vehicles (behind the car / behind the truck)	up to 40° / up to 40°
Distance from camera to car license plate	75m max / 4 to 12m optimal
Volume of vehicle information stored by the system (for 100GB HDD)	not less than 5 million records
Time of search of information in database (for database of 10 million records)	less than 0.2 sec
Allowable angle of view from camera towards license plate(on vertical / across)	any network supporting TCP/IP

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