



SECURITY

CONTROL OF THE LAND AND OF VEHICLE NUMBER PLATES

GENERAL CHARACTERISTICS

Security is the integrated solution designed for controlling the land via the automatic reading of vehicle number plates and video-surveillance.

Security is the indispensable support tool for local police forces and law enforcement agencies in their effort to guarantee security throughout the land. In addition to this essential function, the system also provides statistical data regarding traffic flow that can be usefully employed by the various services of local bodies (mobility departments, engineering departments, etc.).

Security consists of a network of cameras installed at key points throughout the territory to carry out video-surveillance and vehicle number plate data collection, and of a web-based central management and control software.

The information collected in the field is transmitted to the central software platform that processes all of the data in real time.

At central level, various functions are available, such as the management of the number plates detected and

of the context images, the storage of data into a DataBase, and the processing and statistical analysis of the data.

Security allows make targeted DB searches regarding the number plates, based on various search criteria (vehicle type, partial plate number, time of transit through monitoring point, etc.).

Security immediately and automatically signals, even on portable devices (smartphone, tablet, netbook, etc.), the transit of vehicles lacking liability insurance and/or engine revision. In this manner, local patrols can then investigate the vehicles flagged by the system. The transit of blacklisted vehicles is automatically signals via SMS.

The **Security** system recognises ADR plates for the identification of transported goods (Kemler codes) so as to determine hazardous loads.

Starting from the number plates it detects, **Security** can carry out statistical analysis of traffic, creating traffic flow reports, identifying preferential routes, travel time, etc..

MAIN FEATURES

- Monitoring of vehicle number plates and hazardous goods plates (ADR/Kemler codes)
- Identification of vehicles lacking liability insurance and with expired revision
- Identification of blacklisted vehicles
- Automatic counting of transits
- Supply of traffic flow data and of data for statistical purposes



TECHNICAL CHARACTERISTICS

ARCHITECTURE

- Peripheral level: vehicle number plate recognition cameras; context cameras (optional); communication system
- Central level: software platform

NUMBER PLATE RECOGNITION CAMERAS

- Free-running vehicle number plate detection at very high speeds
- Kemler-UN code reading (optional)
- Embedded IR illuminator
- Day/Night operating capacity
- Context image (optional)
- Embedded automatic OCR character recognition system (optional)
- Internal GSM/GPRS/UMTS modem (optional)
- Internal memory
- Average speed calculation and vehicle type recognition (optional)

COMMUNICATION SYSTEM

- Ethernet network
- Wireless network (optional)
- Mobile GSM/GPRS/UMTS network (optional)

DATA DETECTED

- Number plate, of any nationality
- Character recognition, including Chinese
- Reading of Kemler-UN code for hazardous goods (optional)
- Infra-Red image
- Context image (optional)
- Average speed (optional)
- Vehicle type (optional)

SOFTWARE PLATFORM

- Web-based
- WebGIS
- Fixed and mobile devices (PC, Netbook, tablet and smartphone)
- Interfacing with PRA database

MAPPING

- Location on map of monitored transit points
- Identification by name of each single transit point
- Photographic display of each single transit point

NUMBER PLATE MANAGEMENT

- Number plate search criteria: date, monitoring point, vehicle type, partial number plate
- Hazardous material search (optional)
- Signalling of vehicles lacking valid liability insurance (optional)
- Signalling of vehicles with expired revision (optional)
- Blacklist management with automatic signalling of blacklisted vehicles (stolen, flagged, etc.)

STATISTICAL ANALYSIS

- Vehicle counting
- Vehicle nationality
- Vehicle registration date
- Preferential routes
- Travel time
- etc.