City of Paterna, Valencia (Spain)

CLIENT: Paterna City Hall (Valencia)

PROJECT GOAL: Improve safety in cities

PROJECT CHALLENGES: Automatically identify suspect vehicles license plates.

SITUATION

Paterna is a city situated in the Spanish east coast. It has an extension of more than 35 square kilometers and 67.000 inhabitants. The city center is surrounded by many housing developments. In order to cover the need of improving the citizens safety and the traffic management of the city the city council decided to install an intelligent vigilance system.

"This system is a pioneer system in Valencia. Similar systems may exist, but none of them with the potential of the one installed in Paterna" (Citizens Security City Councilor, Vicente Arenes)

"The new system is comparable to having 20 police officers working 24 hours/day at the streets, managing the city traffic". (Paterna City Hall)

"Paterna Local Police has been able to identify two suspects of a crime with criminal records thanks to the installation of intelligent cameras that read the vehicles license plates". (levante-emv.com).

SOLUTION

In the project developed in Paterna, more than 15 high resolution cameras were situated both in public roads and in the main accesses to the housing developments. The goal of the project was to regulate the traffic in the area.
The main characteristics of the projects are:

- Very accurate automatic license plates recognition in public roads (precision above 95%).
- High quality recording of the vehicles to identify their brand, model and color.
- Centralization of the information in only one control center with the capacity to send alerts to the National Police in very short time.
- The system matches the licenses obtained with the police data base. In case of detecting a vehicle that is suspect of an offense an alarm is generated.

BENEFITS

Vifence, the intelligent video analysis system used by the city of Paterna, provides the following functionality to the new security system:

- **Increases Speed** of action since it automates the license plates recognition of vehicles that are suspect of a crime.

- **Increases efficiency** of the security system since the new system is working 24 hours /day, 365 days/year. No rest, no distraction. It facilitates the police operative because it automatically matches de information obtained with the information of the police.

- **Improves Control.** The high quality recording by event reduces the time spent searching for specific videos. It also reduces the need of storage without sacrificing information or details. The data needed with the quality required.