

# License plate recognition

Access Control  
Car Park Management  
Traffic Surveys  
Site Security  
Speed Enforcement  
Crime Prevention  
Anti-terrorism  
Port/Airport Security  
Traffic Regulation

Access control - license plate recognition system grants access to vehicles with authorised license numbers only.

Security control – system matches license plate with database image of vehicle and driver.

Car parks – recording number plates gives added protection to cars, can track thieves, indicate free spaces for incoming patrons.

Truck depots – truck registration numbers can be checked against container consignments.

The License Plate Recognition application can detect and read vehicle license plates for parking, access control, traffic surveillance, law enforcement and security applications.

**Achieve full control over every aspect of zone security and vehicle access.**

## How it works

SecureMon™ digital video surveillance systems using the License Plate Recognition application allow computers to

- 1) take photographs of automobile traffic provided by video surveillance cameras,
- 2) focus upon the license plate of each and every vehicle that's been photographed,
- 3) "read" and record the series of numbers and/or letters imprinted on the plate, and
- 4) check to see if and how this information is contained in the (various) database(s).

Such checks can be done in a matter of seconds, and can be done (again) when another camera is encountered, which allows the (various) database(s) to keep track of the movements, destinations, and speeds of plates/cars/drivers who have been identified (i.e., all of them).

It provides rapid and accurate identification of vehicles, 24 hours a day. License plates can be captured and stored to provide a record of all the vehicles that pass, and the record can be interrogated retrospectively. By continuously monitoring the stored log, a pattern of normal vehicle activity can be built up, allowing abnormal activity to be spotted quickly enabling rapid response.

## Private/Secured Car Parks

Control entry to private car parks such as those located at industrial / office sites, residential apartments, gated communities, correctional facilities and sensitive installations. The system records and matches vehicle license plate numbers against an Authorised Vehicle database list, which can be held in either the system's integral database or within a central computer. Access (or egress) will be permitted if the license number makes an exact match with the Database.

The system can control the entrance/exit gate automatically or display the vehicle information on a monitor for confirmation by an operator.

For more stringent access control, each license plate number in the list of authorised users is matched to an image of the vehicle and its usual driver. An operator then compares and validates the information either at the site entrance, or remotely, and manually admits access. This can significantly speed up site access and reduce long queues.

The system can store a history of all gate events and store images of the vehicle and driver. Each recognized vehicle has a time, date stamp and location number associated with it.

The system logs all entry and exit times of vehicles enabling verification against time sheets if required.

By monitoring entry and exit, controlling access to vehicles, maintaining an inventory of all vehicles on site and alarming on detection of a non-authorised vehicle, the system allows the cost effective deployment of security staff to where they are most needed.

## Public/Private Car Park Management

The License Plate Recognition application can be utilised in public and private car parks, both paying and non-paying, where control of car park usage is required.

The system provides local authorities and car park operators with a comprehensive method of controlling access to, and managing, car parking resources, by automating vehicle entry to, and exit from, a car park and using the recognised number plate information for inventory management.

The application can be scaled to suit single lane or multi lane, single entrance or multi entrance car parks. A camera monitors each of the entrance/exit lanes of the car park and the video is sent to the appropriate control room for recognition and processing.

The system can identify & notify where there are empty car park spaces so operator/information screen can direct traffic flow to maximise use of available spaces.

## Shipping Container Identification

The system tracks and reads shipping container identification markings, and transmits the ID string to the port or gate computer, or to a client process. The data can be matched with the truck registration numbers as a further security measure.

It can identify vehicles entering and exiting specified areas. Each recognized vehicle has a time, date stamp and location number associated with it.

## Airport Security

The system can monitor drop off/loading zones for effective enforcement of the '5 minutes only' parking rule.

### Benefits

- ▣ Car park control and management using automatic license plate recognition
- ▣ Access control to authorised users at staff car parks and sensitive sites
- ▣ Maintain current and historical record of vehicles on site
- ▣ Improved security for both car park operators and car park users
- ▣ Flexible Access Control to easily accommodate visitors and delivery vehicles
- ▣ Elimination of swipe cards or proximity devices and remove the need for car parking tickets in some public parking facilities
- ▣ No driver co-operation or vehicle modification required
- ▣ Can improve traffic flow during peak periods
- ▣ Car park usage analysis for management purposes