



**Powering Performance**



## WHAT IS LPR?

LPR is a technology that uses optical character recognition on images to read vehicle registration plates. It can use existing closed-circuit television, road-rule enforcement cameras, or cameras specifically designed for the task. Originally LPR is used by police forces around the world for law enforcement purposes. It is also used for electronic toll collection on pay-per-use roads and as a method of cataloging the movements of traffic. Nowadays, LPR was widely used at the parking industry in order to smoothen the traffic.



## HOW IT'S WORK?

LPR involves capturing photographic video or images of the license plate, whereby they are processed by a series of algorithms that are able to provide an alpha numeric conversion of the captured licensed plate images into a text entry.



## LPR ALGORITHM

### 2. License Plate Sizing & Orientation

Components of algorithm that adjust for the angular skew of the license plate image to accurately sample, correct & proportional recalculate to an optimal size

### 1. License Plate Localization

Localizing determines what aspect of the vehicle image the license plate. Locating identifying a license plate

### 3. Normalization

Algorithm regulating the contrast and brightness of the captures license plate image

### 5. Optical Character recognition

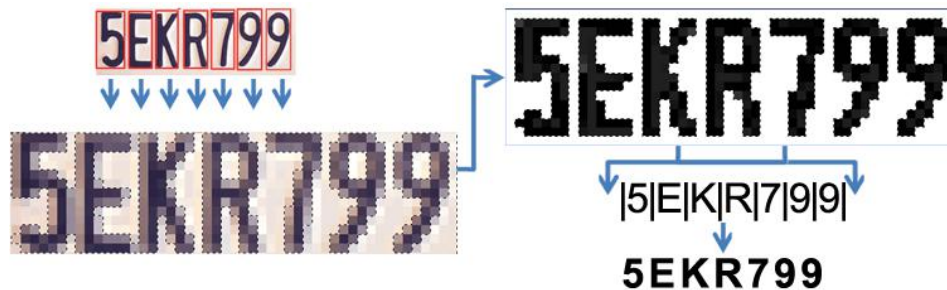
Algorithm to translating the captured image in an alpha numeric text

### 4. Character Segmentation

Algorithms that locates the separate alpha numeric characters on the license plate

### 6. Syntactical / Geometrical Analysis

Algorithms to verify alpha numeric information & arrangement with a specific rule set.



## LPR CAMERA SYSTEM FEATURES

High Speed LPR engine

All function event video clip link with EPS database

Anti Tailgating device

Multi function for large scale parking system

Link with e-payment system

All image as transaction fully integrate with EPS system

Security use

High accuracy result >98%

Central redemption system use

Dual processing mode (video + Image)

Local inside camera processing

Built in IR light for night capture\*\* (option item)

Real time H264 video out can link with NVR for motion recording

Output result in Plate + Image file



LPR camera install at entry point can used for surveillance function. No need install another CCTV camera again at the same driveway



## SMARTER WAY FOR PARKING MANAGEMENT SYSTEM



# Reliable & Comprehensive Parking Management





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