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## **Automatic License Plate Recognition Solutions**

Automatic number plate recognition systems mounted on cars are generally considered expensive, but with growing traffic both in cities, as well as on highways, more cars on the road, but most of all with digitalization and interconnectivity in society, they became a necessity. This applies both for private and public security in addition to growing service quality and comfort.

Every development of surveillance IP cameras, in performance and quality, as well as features, useful for a large pallet of scenarios, meant a reduced cost, which implies the possibility to use these systems on a large scale.

ELKO Romania, part of the ELKO Group, specialized in distribution of a large offer of IT solutions and equipment, is one of the promoters of this concept in Romania and is actively working next to its technological partners in implementing such projects in Romania.

They will ease the traffic flow, the parking and will increase the security. The most recent local projects are based on IP camera and detection sensors which are managed by a LPR software (License Plate Recognition ).

Of course that one of the main purposes of a LPR system is safety. Axis IP cameras mounted in crowded intersections or busy streets will allow creating alerts for those who break the traffic rules and this will increase traffic safety.

The cameras could also be used in tolling stations, so to allow a quick pass for those who already paid. A more common use is the access control automation. In such a scenario, a real estate developer may decide to use LPR technology for only its tenants to enter a specific area. In a different situation, a business owner may decide that only its employees can have car access in a parking, based on LPR technology.

Long term auto parking may use this solution for advance payment system based on license plate.

There are also less common scenarios. For example, auto companies have implemented this system to allow clients to watch their car in service in real time, over the internet.

Also, it is used in service so the a client be recognized as it enters the access gates.

LPR field areas are indeed very large, and the usage scenarios are only limited by end users imagination, may it be public authorities, companies or institutions.

IP surveillance cameras from Axis Communications are the best choice, due to video quality excellence which brings the entire system accurateness to new heights.

The offer is generous enough so that any demand could be fulfilled. As an example, P13 series Axis cameras are designed to be used outdoor, and is packed with Lightfinder technology for a a betters light sensitivity and Forensic WDR for more detailed images, with resolutions available up to UHD.

Q16 series include Arctic Temperature Control technology, which will allow operating in low temperature, with resolution up to 5472x3648 pixels.

For scenarios you need a close-up, Q1765-LE has a 18X auto focus optic zoom.

## **In any situations**

In certain scenarios, for a maximum efficiency, IP cameras may be linked to OPTEX detection sensors. RLS-2020S is a device that can detect cars or vehicles with speeds up to 45km/h and ignores human traffic.

Once it is installed it can activate the surveillance cameras when a motion is detected, and the user can set up to 4 independent detection zones.

Compared to IP cameras, the senors can work in any temperature or illumination condition, using an invisible laser beam for detection.

The 2020S model incorporates an improved microprocessor with better detection capabilities. This sensor is PoE ready and can be integrated with all major VMS platforms.

Other products that can be used for a fast and easy vehicle detection in traffic are OPTEX OVS-01GT and OPTEX OVS-01CC. The detectors in this series, Viik, are using Frequency-Modulated-Continuous-Wave (FMCW) technology and are meant for situations in which one can not use group-loop circuits. Viik OVS-01GT is a dual sensor based on microwave and ultrasounds and it has the ability to detect both the presence and the movement of a vehicle, where OVS-01CC can detect and count vehicles no matter what their side up to 60km/h speeds.

### **Romanian LPR solution**

Metrici is a romanian company that developed one of the best license plate recognition software solutions

Metrici may be used for traffic management or access control in restricted area, offering statistical analysis which can be used in proactive planning of traffic flow.

The application is offering segmented reports and management based on zones, time intervals or number of cars and may calculate average speeds on time intervals. The company is always extending with new detection engines and deep neural networks software.

### **About ELKO Group and ELKO Romania**

ELKO Group is one of the largest IT solutions and products in the region, offering solution from 210 producers and a great variety of products and services for over 7700 companies, PC producers, retailers, system integrators in over 340 countries in Europe and Central Asia. ELKO Group had a 1.593 billion USD turnover in 2017.

ELKO Romania is part of ELKO Group and is specialized in distributing IT solutions and equipment: mobile solution, components, IT infrastructure solutions, storage, vide, surveillance equipment, industrial equipment, software.

The company is exclusively distributing its products through its partners, (resellers, retailers, e-tailers, companies that are projecting, installing and resell IT solutions, communication systems and video surveillance.