

# License Plate Reader (LPR/ANPR)

**perceptics**  
imaging technology solutions

## LPR/ANPR System Overview

The Perceptics LPR brings a new dimension of decision-making information for Security and Traffic Management. It uses a unique, patented approach that automatically detects the presence of any vehicle in its field of view, captures an image containing the license plate, locates it and reads the plate number and state-of-origin. The approach can read all types of license plates: retro-reflective, non-retro-reflective, embossed, flat, and others, allowing the system to identify vehicles with no plates or with plates that may have become non-retro-reflective due to dirt, snow or other factors.

The Perceptics LPR system automatically captures, identifies and records the alphanumeric code, state/province of origin, and country of origin. The process occurs in real time, thus minimizing the transit and wait times. The information gathered from the plates can be linked to databases for background checks and can assist in generating accurate usage statistics and updating existing database records.

Our LPR product line has been proven effective domestically and internationally for vehicle identification at both national border installations and for access control applications. We have systems that have been in operation for decades, in all kinds of environmental conditions.

## LPR/ANPR System Benefits & Features

The Perceptics LPR system stands apart from our competition for several reasons:

- Sole provider to U.S. and Canadian Border Authorities
- Real-time risk assessment
- 95% full plate and origin accuracy
- Reads both reflective and non-reflective plates
- Reads multiple plates and half-height characters
- Easy integration with customer data
- Detect and count every vehicle
- Equipment installed and in continuous operation at over 1,000 lanes distributed throughout the world



## LPR/ANPR System Technology Advancement

The Perceptics LPR technology continues to evolve and improve over time. One of the primary benefits associated with the latest generation of Perceptics technology is the ability to configure components and transfer results and images across the local area network (LAN) via Ethernet communications. Using this technology, operating speeds have been increased, upgrades can be installed remotely, and on-board diagnostics can provide equipment status information in real time.



## LPR/ANPR System Architecture

A typical lane of LPR equipment configured to read front and rear license plates and consists of:

- Two vehicle sensors
- Two stroboscopic illuminators
- Two imaging heads in environmentally controlled enclosures
- One Network Video Processor (NVP) acting as the lane and network communications controller

The LPR system components are based on a modular design concept that allows for easy exchangeability and expansion in the field. There is no single point of failure, because each lane has operating independence, thus providing redundancy for multiple lane installations.

Further improvements have been made with maintainability, due to the Ethernet based system that allows for significant data gathering and configuration remotely. A simplified system reduces repair time for this generation of equipment significantly, and maintenance costs have been reduced in total.

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