



### License plate recognition

- 3 options for the recognition distance:  
Long plates : 4m/13.12 ft - 7.5m/23ft  
5m/16.40 ft - 10m/32.81 ft  
8.5m/26.25 ft - 15m/49.21 ft  
Small plates\* : 3m/9.84 ft -  
5,5m/18.04 ft 4m/13.12 ft -  
7,5m/24.61 ft 7m/22.07 ft -  
10m/32.81 ft
- Coverage width:  
Up to 4 meters/13 ft
- Compatible with all license plate formats
- Speed range covered: From 0 to 250 km/h - 155 mph

### Plate Fingerprint (MICROPAK LPR-PF)

- Plate analysis using points of interest technology
- Improved matching rate

### Video features

- HD camera:  
1.3 Megapixels
- Image analyse:  
60 images/second
- Illumination:  
IR 850nm
- Compression:  
H264
- Settings:  
Bitrate, frequency, dynamic framing

## MICROPAK

From License Plate Recognition to speed measurement and Dangerous Goods transportation tracking, the Micropak fulfills your vehicle monitoring requirements.

### System

- The collection of information (License Plate Recognition) is carried out entirely in the sensor.
- The sensor automatically adjusts its filming and lighting parameters in order to be able to provide an optimal performance regardless of the conditions.
- The sensor and camera settings (compression, frequency...) can be carried out remotely.
- The data gathered is transmitted by the sensor on the Ethernet network and in RS-485.
- A real time HD 720p video stream in H264 format as well as additional data (reliability rate) are also provided, depending on the versions.
- A dry contact gives us direct control of a barrier for the LPR version, as well as an entry (IO in) to synchronize the recognition process with an external trigger.
- The Plate Fingerprint (PF) can be associated with the LPR for an improved matching rate.

### Different versions

Easy to install and use, the MICROPAK offers a large range of applications as it comes in different versions.

<i>Essential</i>	ANPR for plates of the country or state of installation	Efficient and cost effective for local applications
<i>Plus</i>	<i>Essential</i> + ANPR of plates for other countries and states available in the firmware	For installation in sites with international traffic
<i>Performance</i>	<i>Plus</i> + Plate Fingerprint	Ensuring the best performance possible in every condition

### Applications

The MICROPAK can be used in a wide variety of contexts:

- Access control for public and private car-parks
- Motorway tolls on channeled lanes
- Public security applications
- Monitoring of urban and peri-urban areas
- Access control for high-security sites



## Electronic features

- Internal memory:  
Up to 1,000,000 plates in white list  
and up to 1,000 logs memorized  
(JPEG included)
- Communication bus:  
Ethernet, IO out (relay), IO in  
(optocoupler), RS-485
- Power supply - Consumption:  
24VDC - 12W (3m cable provided)
- For the output:  
Maximum switching voltage  
250VAC/220VDC maximum power  
supply of 2 Amp
- For the input:  
Voltage 24V +/- 0.1% maximum  
power supply of 0.5 Amp
- Security:  
SSL, 802.1X, 802.1Q
- Certification:  
EMC EN 55022, photobiological  
safety IEC62471, CE, FCC Part 15,  
CB, CEI 61000-4
- MTBF:  
70,000 hours minimum
- Autonomous video activation or  
external software trigger

## Mechanical features

- Connectors:  
RJ45 IP67 + 10-pin Amphenol LTW  
connector
- Temperature:  
-40° to +55°C/-40° to +131° F when  
in use
- Casing:  
Grey aluminum IP67
- Dimensions without sun-visor (mm)  
- Weight:  
130 (L) x 115 (P) x 70 (H) mm - 1050  
g/5.12 (L) x 4.53 (P) x 2.76(H)' - 2,3  
lbs

\* Values for small plates including  
(not exclusively) the United States,  
Canada, Mexico, Belgium, Monaco &  
South America

## Options

- White light  
illumination
- Pole mount  
adaptor
- Fixation  
bracket
- Cable  
protection box
- Longer power  
supply cables
- Cables with  
complementary  
signals (RS-  
485, I/O)

