

# Designa CONNECT FOCUS LPR

## Licence Plate Recognition System

The integrated licence plate recognition system LPR enables the automatic recognition of vehicle licence plates in DESIGNA parking management:

The licence plate automatically read by the LPR at the entrance and alphanumerically processed via image processing technology.

The created image, the read licence plate and the ticket data are saved in the system <sup>1</sup>. Optionally, the licence plate recognised at the exit can be compared to the licence plate which was recognised at the entrance.

## FEATURES

- High level of recognition even during unfavourable light conditions
- Recognition of licence plates at angles of up to 60°
- Combined recognition unit, which includes a camera, lighting and Ethernet connection
- Energy-saving infrared lighting
- Full integration in the DESIGNA parking management system
- Recognition unit communication with the system server via Ethernet

## STANDARD FUNCTIONS

### Status information

The current status of all the vehicles in the car park can be determined at any time.

### Creating replacement tickets

If a customer loses a short term parker ticket, the exact entrance time or the last payment can be determined via the licence plate and a corresponding replacement ticket can be issued.

### Blacklist

A vehicle whose licence plate is registered on a blacklist can be refused entrance and exit.

### Whitelist

In order to protect cards against misuse, a customer's cards are allocated to certain vehicles, i.e. utilisation of a card is only possible together with the respective vehicle.

### Licence plate printed on the short term parker ticket

The recognised licence plate is printed on the short term parker ticket. The licence plate can also be printed on a receipt issued at an automatic pay station.

## OPTIONAL FUNCTIONS

### Theft protection and swindle recognition

The licence plate recognised at the car park exit is compared to the licence plate which was recognised at the entrance. The operator is notified if a conflict arises. If necessary, the vehicle has to remain at the exit until the conflict has been resolved or the problem is entered into the database as an unsolved conflict and the vehicle is allowed to exit the car park.

### VIP list

The VIP function allows the allocation of customers' cards to their vehicles. If a licence plate is recognised, the card's validity information is determined and checked. The barrier opens automatically after a successful check.

<sup>1</sup> according to the recommendations of the independent State Agency for Data Protection

### Greylist

After recognition of a licence plate in the greylist, the operator is notified via a silent alarm and, if necessary, can take further steps.

### Driver camera

The optional driver camera enables the driver to be clearly assigned to the recognised number plate.

### Overview camera

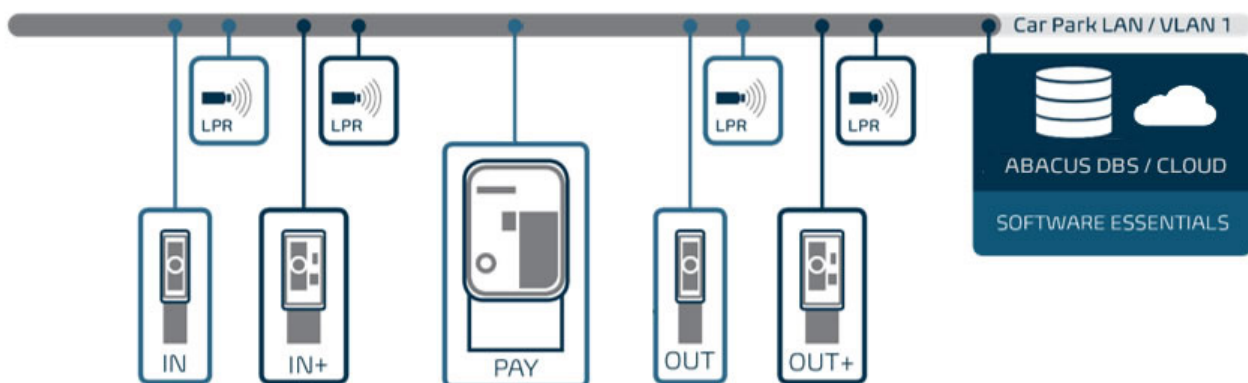
Together with the licence plate it is possible to save further images of the vehicle, which, if necessary, can be retrieved. Depending on the resolution of the overview camera and the lighting being used, existing damages can be detected prior to entering the car park.

### Recognition Unit

The recognition unit is a compact lane solution. It contains a camera, lens, infrared lighting, processor with recognition software and Ethernet connection.

The following models are possible:

- vertical or horizontal
- with high resolution (for lane widths of up to 5.5m)
- with heater



### CONTACT

DESIGNA Verkehrsleittechnik GmbH  
Faluner Weg 3  
24109 Kiel, Germany

info@designa.com  
T: +49 (0) 431 5336-0  
F: +49 (0) 431 5336-260