SMARTSPECTOR Porta LPR™

Smartspector's brand-new, highly reliable LPR access systems offer enhanced comfort and convenience at your parking facility – an experience you certainly won't wish to miss.

Upon authorised vehicle identification the system automatically triggers an "open gate" signal, thereby dispensing with the need for any additional operational devices.
The system´s robust technical design, embedded in a compact weather proof functional block, is well suited for industrial applications, and its optimum technology does not depend on any specific installation conditions. As the system is self-sustaining, it provides a high level of availability, no external sensor devices, such as e.g. induction loops, nor additional transmitters or responders on the car, are required for proper system operation.

repeated LPR
ensures optimum
matching accuracy

Self-sustaining device technique

The hard-wearing weather-proof case holds the following features, designed in form of a compact unit:
- IR light source
- vehicle detection
- image capture
- licence plate reader
- database ("whitelist")
- gate access control

For the implementation of the technology, 24V supply, a 24V digital input "open gate"
as well as an ethernet access will suffice. For data collection and/or administration, a customary Windows® personal computer is used.

Safe storage of confidential data

For a safe management of confidential data appropriate state-of-the-art measures were taken, hence even the basic model version requires a password to allow configuration alterations.

Larger and/or security-sensitive versions use an additional TAN-code-protection for special access protection in order to comply with the prevailing data privacy protection guidelines.
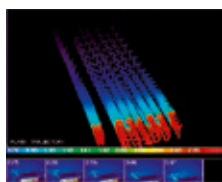
In regular operation, all data is analysed within the camera unit and will be deleted after processing, so that the abuse of any personal data can be ruled out largely.

Application of robust technologies to fulfill challenging measuring tasks

The smart camera platform was originally designed for industrial applications. Its outstanding performance features provide an excellent basis for complete robust, device-related systems as well as high operational availability, even in adverse ambient conditions.
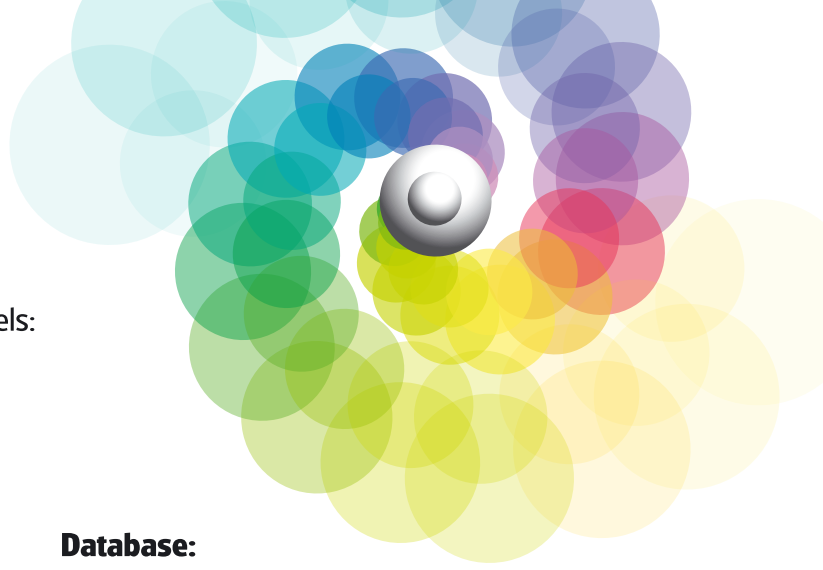
Due to the self-sustaining technique and the application of optimised scene-dependent illumination and shutter control, the system operates without the aid of external sensor devices. Compared to conventional systems it often exhibits increased reading accuracy in changing ambient conditions.

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Availability

Smartspector Porta LPR measuring systems
are available in the following three different models:

Basic | Security | Extended Security

Specification

Object to be measured:

- Passenger vehicles with retro-reflective
  number plates
- Nominal longitudinal distance: 4.5m
- Lateral number plate offset: maximum 2.7m
- Vertical number plate offset: maximum 1.0m

Fixture:

- Wall mount bracket with swivel head
  (see illustration below)
- RAL 7032 colour design

End device:

Weatherproof housing (see dimensional drawing
below), RAL 7032 colour design, preconfigured
cables, 1.5 metres:
- Push-pull supply + Ethernet jack
- High-seal connector for "open gate" digital output
Integrated LED light source:
- class 1 laser (eye-safe)
- wavelength 800 to 900nm

Power supply:

24VDC±5%, stabilised, max. 2A

Database:

- Management of up to 40 authorised vehicles
  (models Basic and Security)
- Management of up to 400 authorised vehicles
  (model Extended Security)

Restricted Access:

- Password protected access to end device
- TAN-code protection against unauthorised access
  to end device (all models except Basic)

User interface:

- Windows® 32 software
- Easy-to-use service and operation
- Suited for multiple camera systems
  (model Extended Security)

Interfaces:

- Digital output: 24V/150mA "open gate"
- Network: 100 MBit Ethernet

Sensor arrangement