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Cognimatics, the leader in Cognitive Vision, is dedicated to providing efficient and innovative products within its two business segments - Mobile Communications and Intelligent Surveillance.



Camera-based Parking Manager™ 1.0

Product Overview
Cognimatics Industrial applications

TrueView Parking Manager™ Cost efficient guiding system for car parks



TrueView Parking Manager™ is a ground breaking innovation in car park management. Using leading image processing software, together with standard network cameras, it offers a unique and accurate guiding system for car parks at the same time as it is a powerful surveillance system. At any given time it provides clear information about occupancy of all parking spaces. After the entrance to the car park, the guidance system takes the driver to a free parking space by the shortest route.

Better utilization of a car park means a quicker return on your investment. Dynamic parking guidance displays inform drivers about current parking occupancy levels and guide them straight to the parking space of their choice.

Effective multi-storey car park management

The **TrueView** Parking Manager™ system provides optimal economic efficiency and customer satisfaction due to:

- Facilitation of locating a free parking space
- Safety against theft and vandalism
- Indication of special parking spaces
- Optimal capacity utilization
- Transparency by means of a control center
- Exact statistical evaluation
- Easy installation and maintenance
- Cost efficient

System overview

Due to its modular structure, the system can be extended any time, but also subsequently installed or developed with the extension of the car park.

Occupancy of individual parking spaces is monitored by standard network cameras. The cameras together with a dedicated standard PC are connected via an IP network. The PC, which is running **TrueView** Parking Manager™ patent pending software for Cognitive Vision, automatically detects occupied parking spaces. Displays immediately show drivers the right way to free parking spaces. Remaining flexible, the system visualizes the entire car park, performs statistical evaluations, monitors the parking time of each parking space and allows for efficient surveillance of the car park. The system does not need repeated calibration, which is the case for other systems that count passing vehicles at entrances and exits.

The network cameras are mounted in the ceiling facing the rear or the front of parked cars. Each camera can monitor several parking spaces.



A unified guiding and surveillance system for car parks operating in real time with a minimum of maintenance.



Combining guiding system and surveillance

Using standard network cameras also as sensors offers a very cost efficient system, by providing parking space monitoring and surveillance in a single system. TrueView Parking Manager™ provides a guiding system that gives the visitors easy access to free parking spaces and also a surveillance system that offers a high level of security for the entire car park.

Cognimatics' TrueView Parking Manager™ is therefore the right platform for safeguarding your investment and equipping you for the future.

A reliable complete system

The TrueView Parking Manager™ system is a complete system of modular design. The result is an open and expandable concept for multi-storey car park. The system visualizes the entire car park, performs statistical evaluations and permits central interventions in the parking space management system. TrueView Parking Manager™ has been successfully deployed and tested for indoor and outdoor conditions. This system meets all the requirements of car park management, starting from the smallest of applications to a comprehensive large-scale system.

Specifications

- Hardware: Standard color network cameras and PC connected through IP network.
- Cameras are mounted in elevated position facing rear or front of cars.
- Several spaces can be monitored by one camera. The limitation is set by image resolution and camera's position.
- Recommended minimum frame rate: 1 frame per second.
- Recommended minimum image resolution: 50 pixels per parking space in width.
- PC CPU requirements: P4 processor or equivalent.
- PC memory requirements: minimum 250 MB RAM and 500 MB free disk space.
- PC operating system: Linux (Debian distribution).

Distributed by:

CONTACT INFORMATION

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ABOUT COGNIMATICS

Cognimatics, the leader in Cognitive Vision, has its roots at the Mathematical Department at Lund University, Sweden. Having a team of senior researchers with more than a decade of experience from Cognitive Vision, Cognimatics' technology is built on a solid and sound scientific foundation.

COMPANY MISSION

Cognimatics works in close cooperation with the university to take new results from research to the market efficiently.

COGNITIVE VISION

Cognitive vision is a field of research, where the aim is to teach computers to interpret images intelligently like humans do. It involves detecting people in pictures, finding objects in pictures, tracking objects and detecting events in video streams. Cognimatics, the leader in Cognitive Vision, is dedicated to providing efficient and innovative products within its two business segments - Mobile Communications and Intelligent Surveillance.

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