AIPARK
Artificial Intelligence Based Parking

Parking Sensor®

The most cost-efficient way for

Advanced Real-Time Parking Monitoring

The ParkingSensor® is an IoT device that continuously monitors the availability of on- & off-street parking spots. It is mounted to light poles or buildings and optically detects parked vehicles in its field of view. One sensor can cover up to 30 parking spots depending on the installation context. Parking vacancy is broadcasted to the AIPARK ParkingCloud® in real-time and distributed to traffic management tools, connected vehicles and mobile devices.

Full compliance with German and EU **data protection** legislation as assessed and verfied by independant auditors

The ParkingSensor uses convolutional neural networks to detect parked vehicles. All processing is done on the Edge.

Up to 70% cost savings compared to other systems due to the highly efficient detection algorithm

ParkingSensor®

Real-time monitoring in the most cost-efficient way.

Specifications

The ParkingSensor® detects the availability and duration of parking for individual spots. The system is highly accurate, super light-weight, tiny and works on ultra-low power. It uses computer vision technology and is fully compliant with German and EU data protection legislation.

Detection Rate	> 98 %
Spots Per Unit	Up to 30 (depending on installation height)
Update Interval	max. 3 sec
Power Consumption	~0.7 – 1 W
Connectivity	3G / 4G
Weight	1.5 kg
Dimensions	60 x 85 x 115 mm

Case Study: City of Braunschweig

- **Largest guidance system for on-street parking in Germany** covering an entire city district
- **500+ parking spots montiored** by 50 sensors that are installed on light poles
- Roll-out to be completed in 04/2018

Car drivers
Navigation to an open parking spot via the AIPARK smartphone app

Traffic Management
Advanced monitoring, control and analytics to reduce search traffic

AIPARK
Artificial Intelligence Based Parking

Let's get in touch!

AIPARK GmbH
Technologiepark, Rebenring 33
38106 Braunschweig, Germany
info@aipark.de
www.aipark.de