



PARKING SOLUTIONS

Intelligent parking guidance system



iParking »

ABOUT AKE

Guangdong AKE Technology Co., Ltd founded in 1997, is the first company to develop and introduce Parking Guidance Systems (PGS) in China, a high-tech enterprise with data acquisition and information processing as its core technology. The main products are Parking Guidance System, Network Thermostat System, BTU Measurement System, Building Energy Management System.



AKE obtained 9 national patents, and passed ISO9001: 2000 Quality Management System. In 2011, AKE compiled National Industry Standard of Intelligent Transportation System. In 2012, AKE was recognized as a proud member of the International Parking Institute (IPI). By the end of 2014, AKE has implemented more than 1500 parking projects, gaining high reputation in the industry at home and abroad.

AKE pursues maximum customer satisfaction by providing efficient service throughout the whole cooperation. Meanwhile, AKE adheres to continuous innovation, which guarantees AKE pioneer position in the industry and trustworthy partnership in the business.

OUR HISTORY

- > 1997 AKE was founded
- > 2003 The first Ultrasonic Parking Guidance System was developed and installed in China
- > 2008 The first Find Your Car System was developed and installed in China
- > 2010 The first Browser-based Intelligent Parking Guidance System was developed and installed in Shenzhen North Train Station in China
- > 2010 Became strategic partner with Wanda Group, implementing Parking Guidance System in over 65 Wanda Shopping Malls nationwide
- > 2011 Compiled National Industry Standard of Intelligent Transportation System
- > 2012 Became the proud member of IPI (International Parking Institute)
- > 2013 The first wireless Camera Parking Guidance System with front-end recognition technology in the world was launched
- > 2014 Welcome CITIC Environment Protection Co.,Ltd as strategic shareholder

FACTORY TOUR





CERTIFICATE






PARKING SOLUTIONS




INDOOR PGS

-  Camera Solution
-  Ultrasonic Solution
-  Find Your Car

OUTDOOR PGS

-  Geomagnetic Solution
-  Street Parking
-  Urban Parking

OTHERS

-  Access Control Management System
-  Cloud-based Data Platform
-  Mobile Apps

SINCE 2003 IN CHINA



ULTRASONIC PARKING GUIDANCE SYSTEM



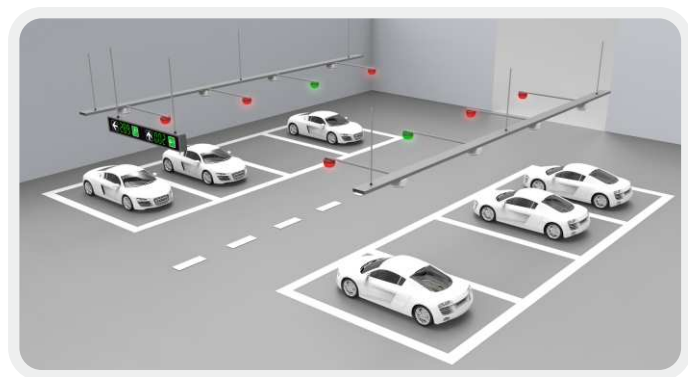
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ULTRASONIC PARKING GUIDANCE SYSTEM

INTRODUCTION

Ultrasonic parking guidance system provides visual indication to driver while searching for a vacant parking spaces: ultrasonic sensor at each space monitors real-time occupancy and reports by changing color of individual lighted space indicator. A green light signifies that the space is vacant while a red light indicates that the space is filled or already occupied. At the meantime, availability information will be accordingly updated on decision point signs. No more guess work for the driver as to which parking level has available spaces for parking.

WORKING PROCESS



Data Acquisition

Ultrasonic sensor at each space forms system foundation. It detects parking status and reports to system controller on RS485 Bus.



Data Process & Transmission

System controller processes data acquired from ultrasonic sensor, update real-time information to associated signage, reports to upper layer on CAN Bus.



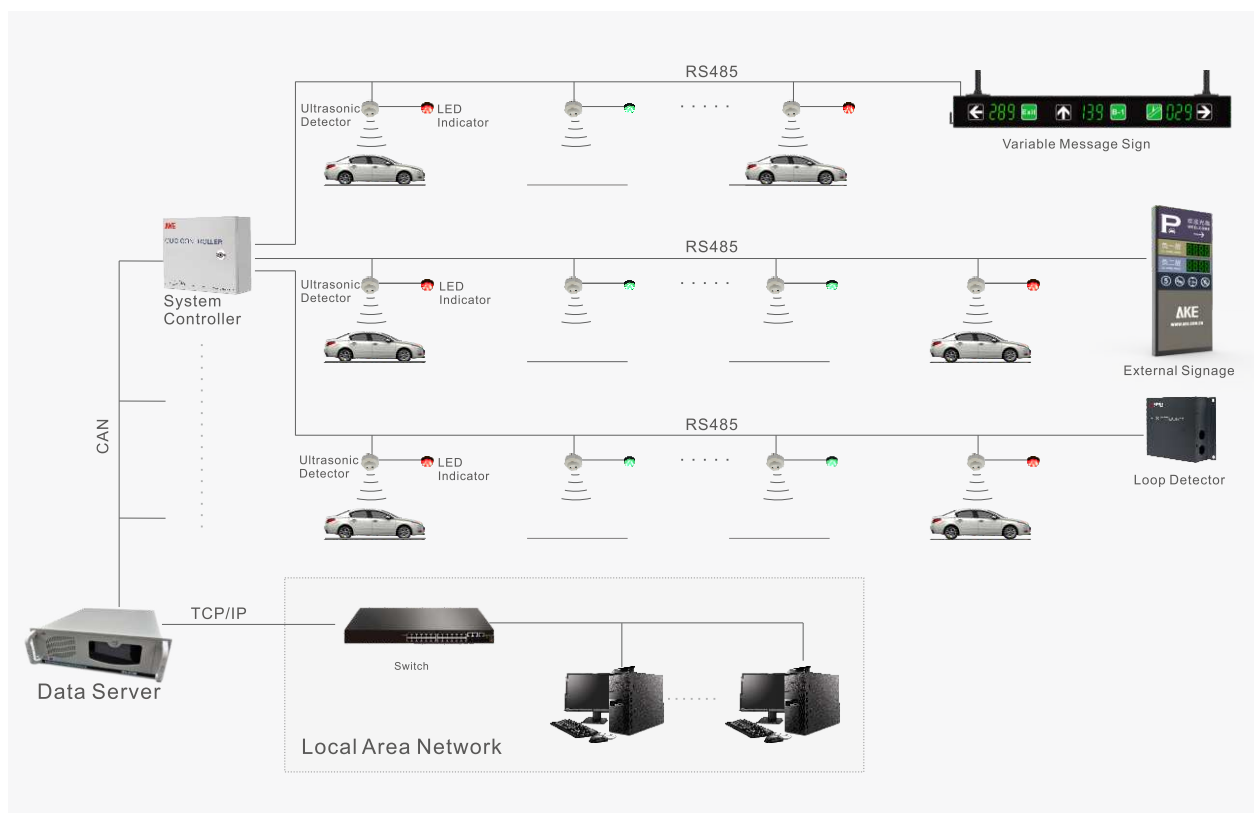
Data Analysis

Host management software analyzes data and generates statistic reports. Browser-based architecture allows remote access to system.

TECHNICAL SPECIFICATIONS

Power Supply	DC18V–24V
Power Consumption	≤0.5W
Detection Mode	Ultrasonic wave
Distance	0.3m–4.5m
Scope of Detection	±15°
Distance Setting	Automatic
Working Environment	Temperature: -10℃~+80℃; Humidity: ≤ 90%
Baud Rate	9600 bps
Address Coding	DIP setting
Size	105 x 105 x 61 (mm)
Weight	0.3 kg

BS FRAME SYSTEM STRUCTURE DIAGRAM

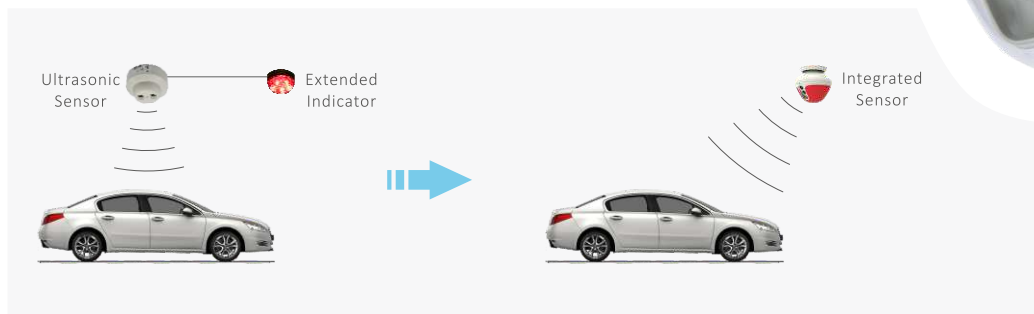




BENEFITS OF INDOOR ULTRASONIC PGS

- An ultrasonic parking guidance system reduces “time to find a space” by 44%, shown on an independent study by Arup (Australia) for Westfield Parramatta
- Noticeably reduces congestion in the car park, allowing for faster exiting speed (by around 10%)
- Creates 100% usage of the car park by making every space “visible” to the drivers with decision point signage
- Less labor is required to manage the parking

MORE ULTRASONIC SENSOR FOR YOUR CHOICE INTEGRATED SENSOR



Time Square, Suzhou, China
3,000 spaces



SM City North Edsa, Philippines
2,650 spaces

TYPICAL CASE

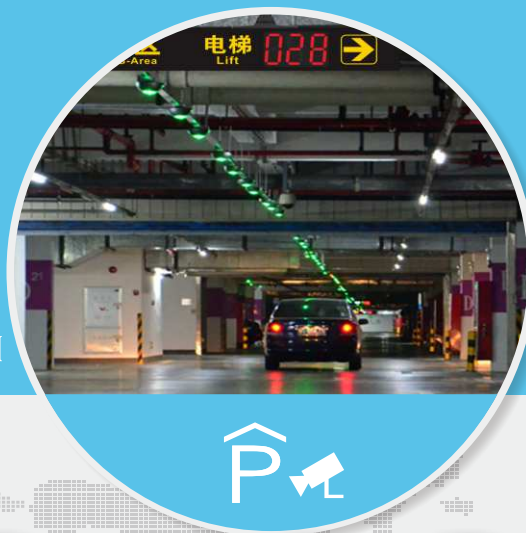
Infinite II Mall, India	950 spaces
Tujungan Plaza, Indonesia	2083 spaces
Laleh Parking, Iran	700 spaces
Wollongong Shopping, Australia	600 spaces
Strand Burgas Mall, Bulgaria	736 spaces
Viva City, Malaysia	2300 spaces
Punta Carretas Shopping, Uruguay	800 spaces
Abu Dhabi Mall, UAE	1500 spaces
Sharpen Finanspark, Turkey	1260 spaces
Centro Innovacion UC, Chile	398 spaces
Mari Shopping, Russia	750 spaces

.....
More than 200,000 parking spaces worldwide

THE FIRST WIRELESS CAMERA PGS IN THE WORLD



CAMERA PARKING GUIDANCE SYSTEM




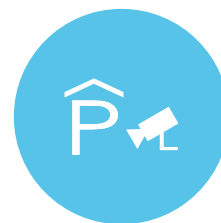
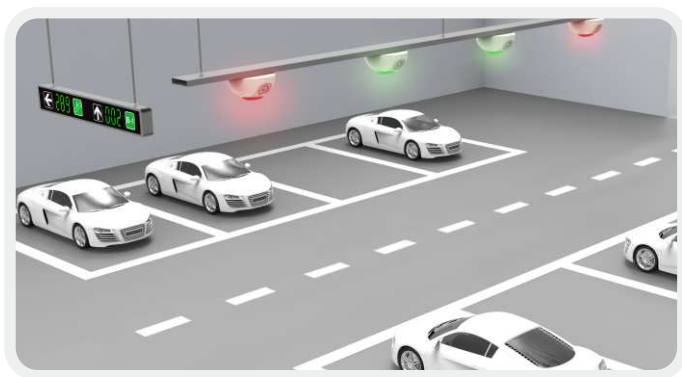
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CAMERA PARKING GUIDANCE SYSTEM

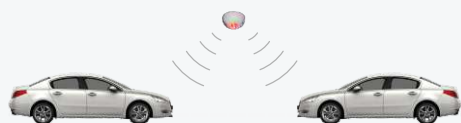
INTRODUCTION

AKE Camera Parking Guidance System is an innovative and comprehensive solution for modern car park, which provides outstanding features "Parking Guidance", "Find Your Car", "Surveillance". Each camera sensor provides real-time security, monitors license plates and occupancy for up to 6 parking spaces. Thanks to front-end recognition technology, AKE camera sensor can work standalone and define space status independently. Drivers get parking information from lighted indicator and information signage, and track the parked vehicle location on nearby "Find Your Car" query kiosk.

WORKING PROCESS

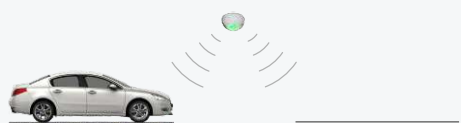
- ▶ Check parking space's status via collecting and analyzing the photos data
- ▶ Different color of the LED indicator will show different status of the parking space, Red–Occupied; Green–Available

■ ■ ■ Occupied



PARKING SPACE STATUS

■ ■ ■ Occupied+Available



■ ■ ■ Available





Server collect and analyze all space's status information , then release it to entrance LED display and VMS. Driver can find the available parking space efficiently according to the guidance in VMS.



HOW TO FIND YOUR CAR FAST IN A BIG CAR PARK?

The Query Kiosk is installed with “Find Your Car System”. By inputting license plate number, parking entrance time or parking space number, car owners can find the car easily and it will show the best route to your car. Meanwhile cars without license plate can also be monitored.



FIND YOUR CAR

- License Plate Search ▶
- Parking Time Search ▶
- Parking Space No. Search ▶
- Unlicensed Vehicles Search ▶



Real-time
Query results



Showing the best route
to your car



QUERY KIOSK



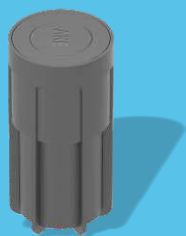
BENEFITS OF INDOOR CAMERA PGS

- Innovative wireless communication technology allows convenient system configuration and cost effective installation
- Powerful detection capacity: one camera sensor monitors maximum 6 spaces
- Integrated “Find Your Car” system solves problem of finding a parked car
- Camera sensor at each space ensures high security inside car park
- Statistic reports increase value and performance of car park

SYSTEM INTEGRATION

With deep insight of parking management industry, intelligently AKE employs LPR (License Plate Recognition) technology to its camera parking guidance system, integrating car park access control system, payment system, find your car system, cloud-based data platform. Car park can from now on realizes entirely digital management. Driver can enjoy a really non-stop parking service, owners get no more headache from traffic complaint, management labor can be largely released.





GEOMAGNETIC PARKING GUIDANCE SYSTEM



P 003
ARKING



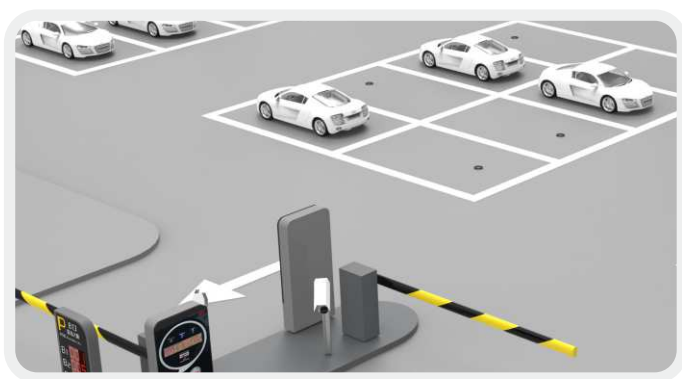
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GEOMAGNETIC PARKING GUIDANCE SYSTEM

INTRODUCTION



Geomagnetic Sensor
PMD-15E

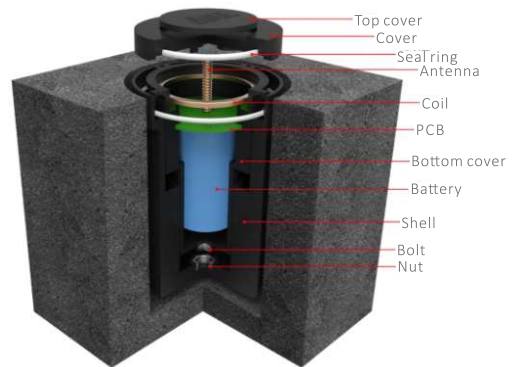
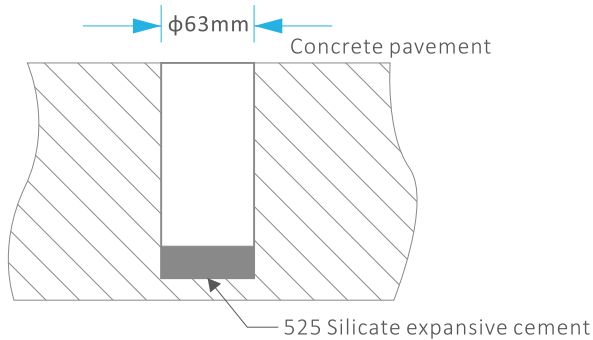
OUTDOOR WIRELESS GEOMAGNETIC SENSOR

Detects vehicles by analyzing the change of geomagnetic field;
Information detected by sensor (presence, flow, speed, etc.)
will be transmitted wireless to the receivers installed at roadside

DETECTOR TECHNICAL SPECIFICATIONS

Radio Frequency	RF470MHz~RF500MHz
Communicate Distance	50m
IP Rate	IP68
Detection Range	Within 50m radius
Working Temperature	-40℃~80℃
Load Affordable	15 tons
Battery Lifetime	5 years
Size	Ø60X120mm
Weight	0.32Kg (± 0.01Kg)

CROSS-SECTION

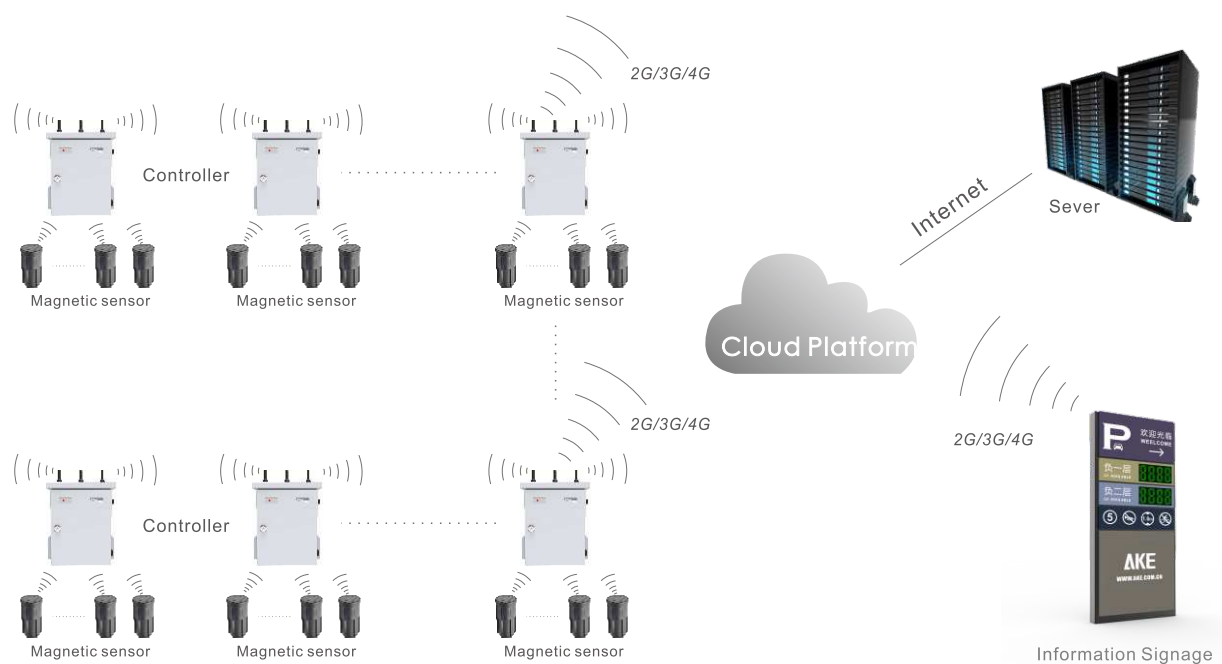


WORKING PROCESS



The geomagnetic sensor is based on the geomagnetism sensing, wireless data transmission and low power consumption technologies, judges whether a vehicle is parked in the parking space by detecting the change of the parking space magnetic variation, and wirelessly transmits the detection results to the geomagnetic manager.

SYSTEM STRUCTURE DIAGRAM





BENEFITS OF GEOMAGNETIC PGS

- > 100% wireless in both communication and power supply
- > High detection accuracy (up to 99%)
- > High adaptability to harsh environment
- > Inbuilt battery, 5-year autonomy
- > 7*24 uninterrupted working
- > Withstands over 15 tons of pressure
- > Compact cylinder design, easy to install
- > Buried underground, maintenance- free



PARKING METER



ON STREET PARKING TOLL COLLECTION

AKE geomagnetic solution can be deployed in street parking by interacting with parking meter, easier way to pay the parking fee.



HANDHELD
PARKING METER



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