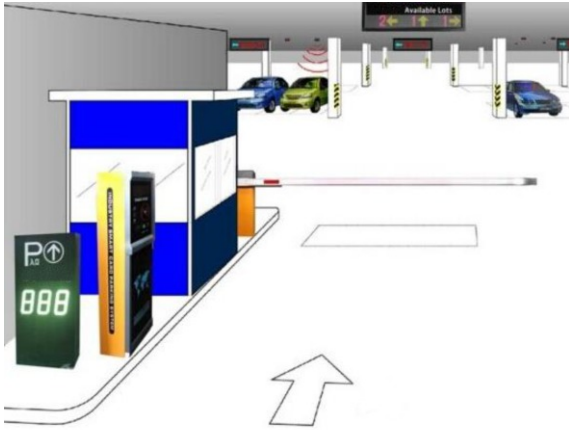


Intelligent Parking Slots Monitoring and Parking Guidance System



This parking solution is designed to help drivers easily search for a parking space quickly and efficiently, thus save time and fuel cost for them. When drivers enter parking lots, then the system automatically guide for car drivers .This system tells drivers the directions to where to find available parking space.

Outdoor led displays Show real time data at every decision point, tell drivers which level should proceed to.

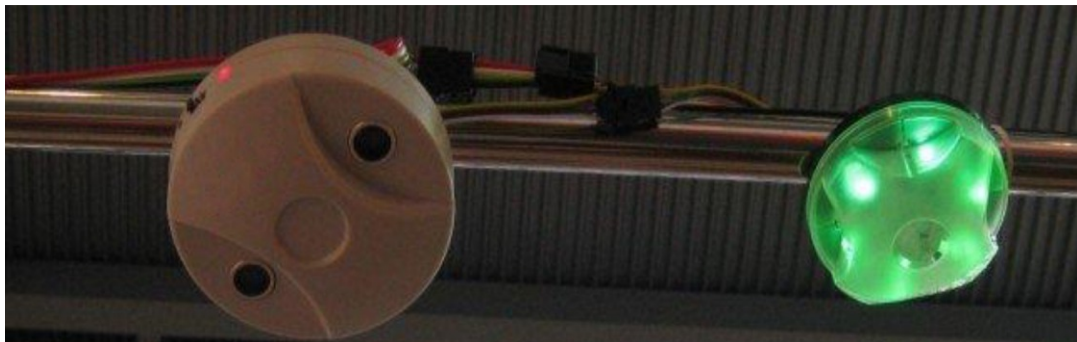
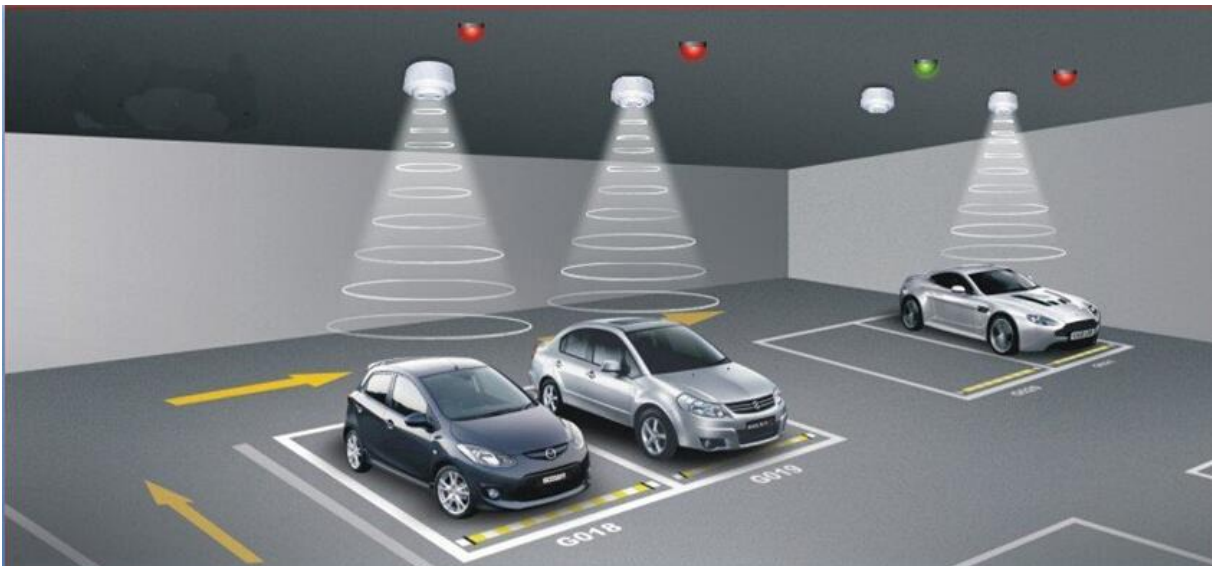


Indoor direction screen displays the available parking spaces in each level, so drivers can decide in advance where to go for parking. The led screen receives real-time information about free parking spaces from zone data collector assigned to it.

1. Ultrasonic Sensor--Detect Parking Status

Ultrasonic sensor is designed for mounting on the ceiling and detecting the availability of a parking space. All KEYTOP sensors have digital signal processing boards inside, so it can receive data and send commands to parking led indicators for showing colors accordingly.

Operating Voltage	DC9 V
Operating Current	28mA(with indicator)
Operating Temperature	-20~80 centigrade degrees
Detecting Distance	0.1~3.5m
Detecting Area	0.4m ² (when 3.5m)
Max. Error	0.1m
Communication	RS485
Communication Distance	1000m



2. Parking Space Led Indicator--Show Parking Space Occupation Status

Parking Space indicator displays the state of occupation of every parking space in the lane. It has 2 colors: red and green.

What Benefits for Carpark Owners?

1. Increase value and performance of carpark
2. Optimize occupation and car rotation
3. Improve traffic inside car park
4. Reduce personnel costs for parking guidance
5. 100% reliability of real-time occupancy
6. Reduction of carbon monoxide gas inside car park

What Benefits for Clients of Car Park?

1. Quick time to find free parking spaces
2. Stress reduction and comfortable feeling at the parking lot
3. Fuel saving
4. Easy location of parking spaces for handicapped and reserved spaces
5. Risk reduction when traffic management



Parking guidance system



LED Display
Receiver datas from ZCU and display available lots.



ZCU
Collect the datas of ultrasonic detectors which is under its control



Ultrasonic Detector
Be installed at every parking space to detector vehicles

LED Indicator
Be installer in the front of every parking space to show parking status by its colors (free: green, occupied: red)



Shown on the pictures are representative. Real Products may change.