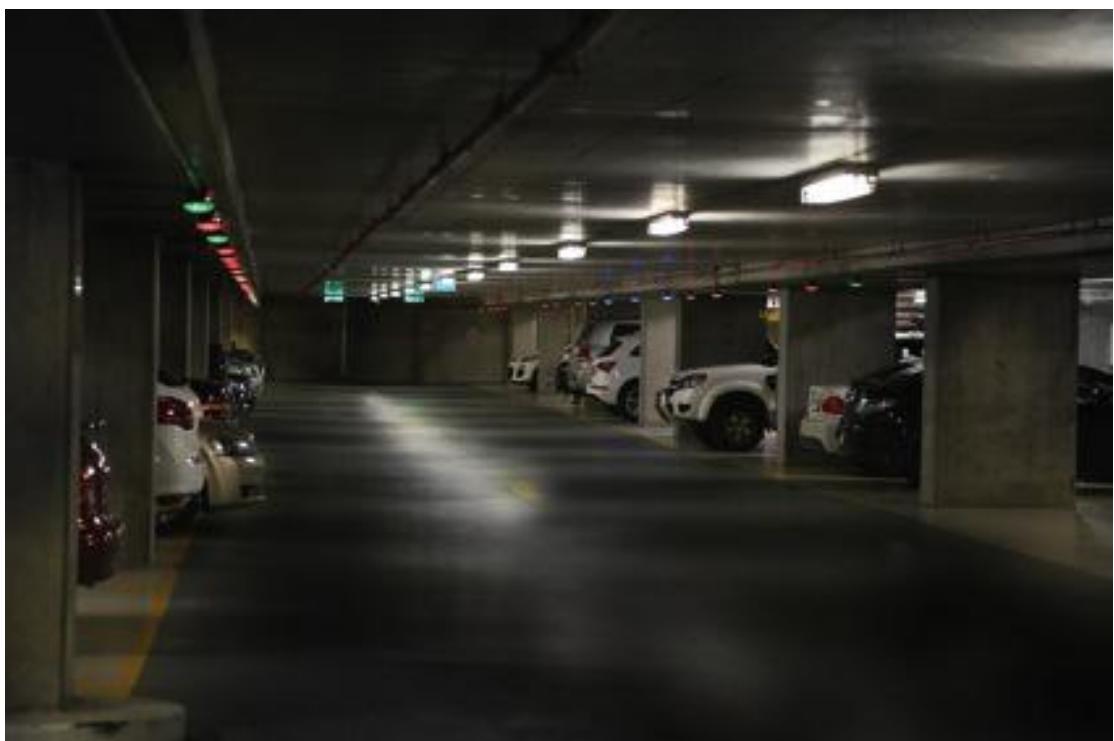


## **PARKING GUIDANCE SYSTEM**



Pinpoint unoccupied parking space & lead  
drivers to park in no time



## How many anxious moments have you spent looking for parking, ending up gritting teeth?

### OVERVIEW

In cities, large scale car parks with hundred/thousands of spaces are more and more common along with the increasing population of vehicles; however, still very often people have headache parking cars. Listed some facts about parking:

1. It's very hard to find a parking space during busy hours;
2. There are parking space available but you just can't find them easily;
3. There are no more parking space but you have to drive around to find out;
4. Parking management has no idea about occupancy of their facilities;
5. Traffic congestion & toxic emission;
6. Impatient drivers...

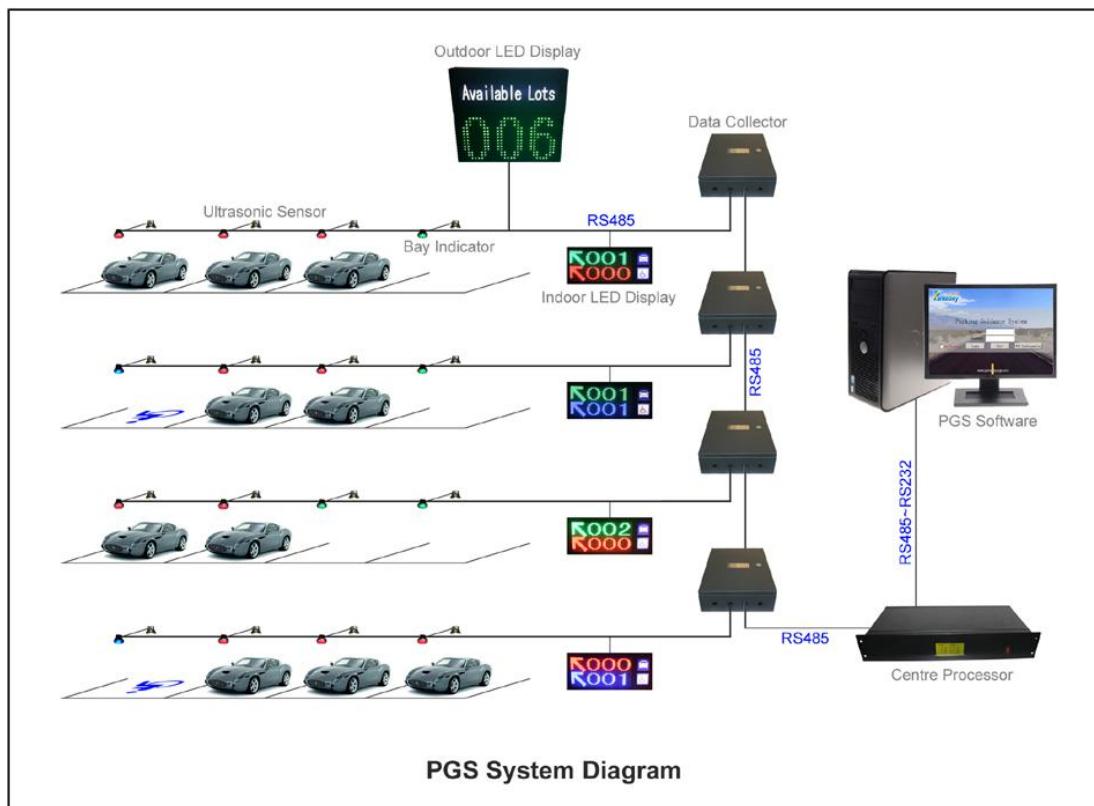
### EMERGE AS TIMES REQUIRE...

As an ultimate solution to the above problems, Dashou Parking Guidance System (PGS) has been specially designed based on Ultrasonic detection and RS485 communication technology. The concept of the system is to pinpoint unoccupied parking space and lead drivers to park in no time.

## HOW DOES IT HELP?

Ultrasonic Sensor and Bay Indicator are installed to each and every parking space to monitor and indicate their occupancy status; when the sensor detects no car, the related indicator illuminates Green/Blue color; when the sensor detects a car, the related indicator illuminates Red color;

Data Collector manages sensors in group and collect information for calculation at Centre Processor; the availability information is then released to LED Display which will be installed to each and every entrances and intersections of the parking.



By telling drivers how many parking spaces are available before their entry to the parking and which direction to take in order to find one afterwards, we make parking a very simple and comfortable experience for them.

In a parking equipped with Dashou PGS, drivers can find a space within the shortest time; even if there's only one last parking space available, they will be guided there fast and effortlessly.

## ULTRASONICS SENSOR

Ultrasonic detection technology based unit installed right over middle of the parking spaces (either on the ceiling or on the cable tray) to monitor presence of vehicle and provides real-time information for the PGS system.



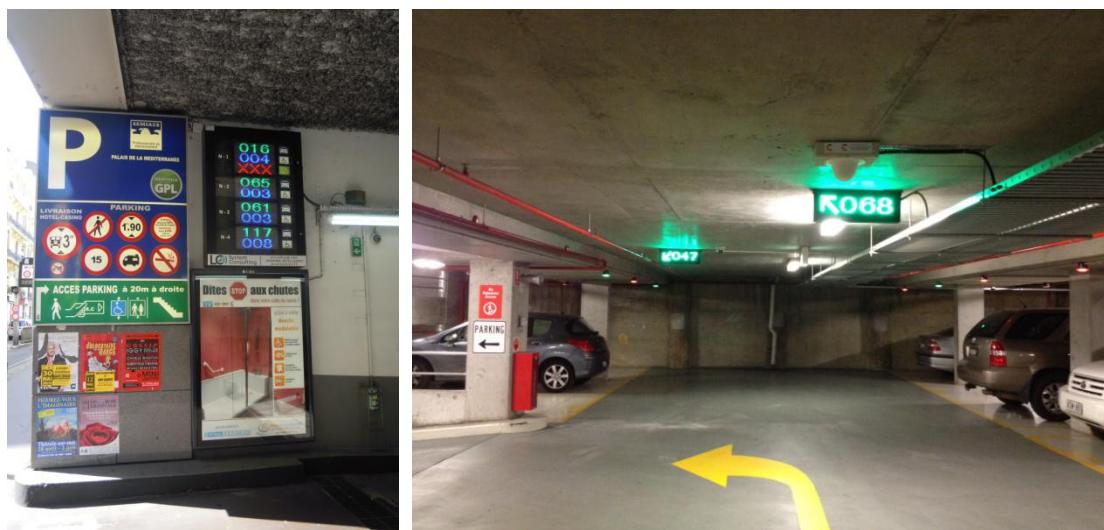
## BAY INDICATOR

High brightness LED indicator controlled by Ultrasonic Sensor to tell occupancy status of a parking space by different color illumination. Normally red color indicates space being occupied; green, blue and yellow indicates space available and to differentiate parking types such as Standard, Handicap, Pregnant and Electric..



## LED DISPLAY

First component greeting drivers at a car park equipped with Dashou PGS. Outdoor LED Display at entrances tells how many spaces are available in each floor while Indoor LED Display at corners & intersection tells which direction to take in order to find one. Color module such as red, green & blue are used to differentiate parking types & lead drivers to right place.



## DATA COLLECTOR & CENTRE PROCESSOR

Data Collector serves as a bridge connecting Centre Processor to Ultrasonic Sensors & LED Display. It picks up sensor information, transfers to Centre Processor, and also helps to release availability information from Centre Processor to LED Displays; Centre Processor is the core of PGS system deals with data processing, information storage and release.

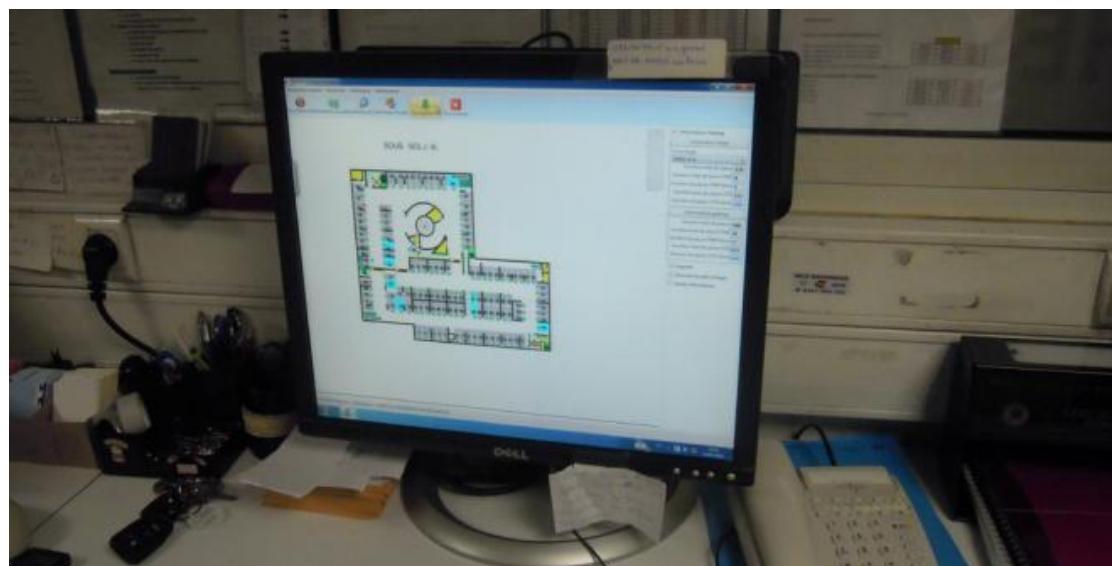


A Centre Processor manages 96 Data Collectors and a Data Collector manages 60 sensors & 20 LED Display; therefore, a basic PGS system can manage 5,760 sensors/parking spaces.

## MANAGEMENT SOFTWARE

Multi-language, graphical application developed based on Window 7 OS & SQL database to display the occupancy status of parking spaces in real-time basis and provide various statistic reports for the management.

Remark: PGS is a standalone system workable without management software!



## ROI OF THE SYSTEM

Dashou PGS benefits drivers, parking manager as well as the society, the ROI mainly includes the following:

1. Minimize driving time while looking for space
2. Improve parking experience/customer satisfaction
3. Maximize usage rate of parking space/profitability
4. Improve public image of parking facility
5. Reduce energy waste & toxic emission
6. Reduce management costs