

Introduction

With the development of social economic, Car becomes much more popular, Car-time is coming. The rapid increase of Parking lots results in parking difficulty, traffic crowd and low efficiency. Meanwhile, Parking management needs more staff and cost is increasing.

When customers return back to the parking area, It is difficult for them to identify the parking situation to find their cars because of the more floors, large space and similar environment. This reduces turnover and efficiency.

UnisPark PGIS can help customers to find prompt parking lot quickly, can help customers to find their cars conveniently when they return. PGIS can improve parking lots turnover and get more income.



UnisPark PGIS consists of following subsystems:

1.Available Lots Display Subsystem

At the Parking entrance, Available Lots information is displayed to guide customers to the parking lots they want. The available lots information is refreshed real time.

2.Parking Area Guidance Subsystem

When car enters into Parking area, the Available Lots information in different floors and area is displayed. Vehicle Detectors installed at the entrance/exit detect the lots information and send to the display screen by controller.

3.Available Lots Guidance Subsystem

When car enter into the parking area, guidance screen is set to display available lots in different directions. Available Lot Detectors are installed to detect if the lot is occupied or not. The Available Lot Pilot Lamp is installed in front of every lot to show the lot status. Red means the lot is occupied, and green means the lot is available. The lots status is sent to management computer and displayed visually.

Drivers can get the lots information quickly by the information screen and can find the prompt lot conveniently.

PGIS Structure

PGIS is the most perfect guidance system domestic, it is suitable for Vehicle in & out frequently parking lots to improve the turnover and management level of parking. It brings good social effects and economic benefits, is the new trend in future.

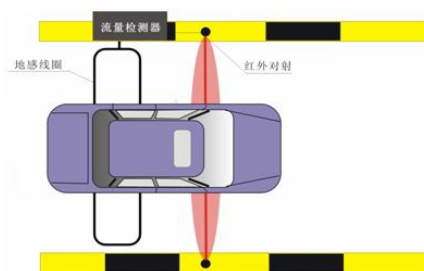
PGIS gets the lots status and car numbers by mature and international ultrasonic detective technology, LED dynamic display technology, computer communication technology, micro-computer real time control and so on technology. PGIS broadcast the lots information to the guidance screen to help drivers parking rapidly.

PGIS works together with PAS. When the available lots are less than the expected value, PGIS can control PAS to stop providing parking card so as to avoid much more cars entering to form traffic jam except the VIP cars.

System Structure

1. Vehicle Flow Detecting System

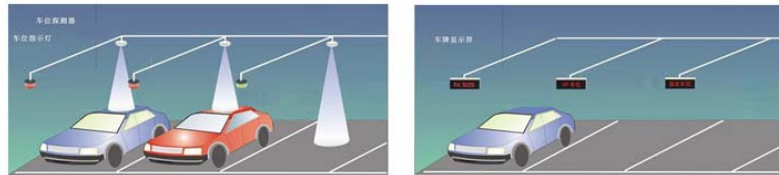
Vehicle Flow Detecting System is used to detect car numbers at Entrance/Exit, Data is collected by data detector and sent to main controller by node controller. Main controller refreshes every information display screen to guide parking. The subsystem consists of vehicle detector, specified Infrared to radio, controller, data collector and so on. The subsystem has flow detecting, converse detecting and following detecting functions, can judge running direction and passed numbers exactly. The actual car numbers inside the parking can not be counted if only Available Lot Detector is used.



2. Lots detective system

Lots detective system can detect if the lot is occupied or not. Data is collected by data collector and sent to main controller and management computer by node controller. Main controller refreshes every information display screen to guide parking. The lot lamp is green means that the lot is available, and

turns red when it is occupied. Driver can find available lots 50m away. The subsystem consists of Available Lot Detector, Available Lot Pilot Lamp and data collector. It identifies if there is car on the lot or not by the distance between detector and objects. The subsystem has lot detecting, lot lamp prompt and lot preset functions to identify car, person and objects.



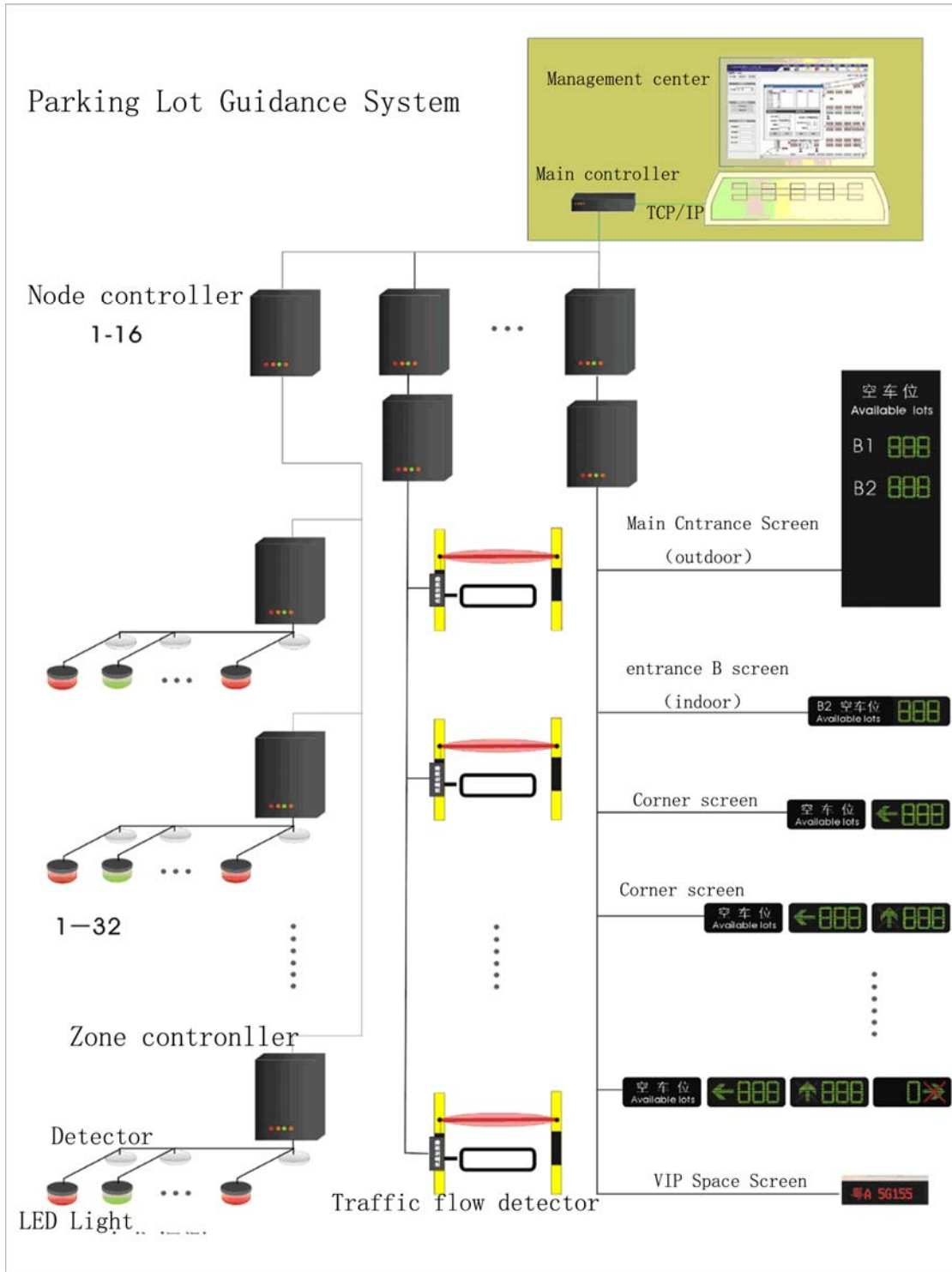
3. Information Display Subsystem

This subsystem displays the current available lots number. The main guidance screen at entrance displays the current available lots of all parking area. The area guidance screen displays the current available lots of the specified parking area. The guidance screen at crosses displays the current available lots of different direction. The information is refreshed timely by main controller. Guidance screen is made of lamp box and high-light LED module. Customers can see the information clearly during night, but save power during daylight. Airproof installation outside can prevent fading and moistureproof. The information displayed can be set or modified by main computer.



4. Controlling Subsystem

Controlling subsystem is the core of PGIS. It completes all data collection, transport, control, available lots calculation, available lots refresh and GIS display. Controlling subsystem can work independently after setting parameters in PGIS without management computer. Controlling subsystem consists of main controller, node controller and data collector. The system can check itself to prompt and alarm.



PGIS Software



Functions

- ◆ GIS displays lots status;
- ◆ Parking overtime alarm and device trouble alarm;
- ◆ VIP lots management;
- ◆ Events report;
- ◆ History report;
- ◆ Administration management;
- ◆ Graphical Report;