Features

Heavy duty, well finished IP54 cabinet
The cabinet adopts 2mm precise machining cold-rolled plate and static electricity sprayed anti-UV surface which is non-scale and unfading, conforming to the IP54 dustproof and waterproof. Simple design also decorates your premises.

User-Friendly LCD/LED screen and Voice Prompt
The Controller can be equipped with LCD or LED screen on which detailed operation and system info. are simply and friendly shown. Voice Prompt gives a warm-hearted welcome and operation guide to parkers.

Unmanned Entry
Unmanned entry helps you reduce labor cost. Hourly parkers themselves take barcode ticket from Entry Station, season parkers get access by self-service swiping their cards on Entry Station, or enter w/o stop if window shield tag is read by long range reader.

Season Parkers Leave by swiping card or long range RFID
Season parkers leave by self-service swiping their cards on Exit Station, or leave w/o stop if window shield tag is read by long range reader, this reduces your labor cost.

PMS (Parking Management System) is a system for managing pay-to-park parking lots, for both hourly and season parkers. Composed of Entry Station, Exit Station, Barrier, MPS (Manual-pay-station), Loop Detector, software and other optional devices, DASHOU PMS makes your parking lots secure, intelligent and high-efficient, providing below typical different systems for different applications:

PM 910 Pay At Exit--- Barcode Ticket Dispensing & Pay at Exit System
PM 910 Pay At Exit is an advanced Parking Management System for managing pay-to-park facilities with high traffic flow, for both hourly and season parkers. Hourly parkers take barcode ticket at entry and pay cash at exit, season parkers get access and leave by self-service swiping their cards on Entry Station & Exit Station respectively, or enter and leave w/o stop if window shield tag is read by long range reader. It is ideal solution for parking lots of premises such as shopping mall, exhibition, hospitals, airports etc.
Hourly Parkers Pay Cash At Exit
When leaving, hourly parkers drive to the MPS (Manual-pay-station) at exit and give barcode ticket to guard, and the guard scans the ticket by a scanner and collect cash.

High Capacity Ticket Box
High capacity of 3000 tickets makes it unnecessary to change paper in the ticket box frequently. Ticket box can also dispense tickets quickly and steadily.

Intelligent Barrier
The digital barrier adopts 70w integrated decelerating torque motor and intelligent control unit. It integrates pressure wave resistance-rebound, loop detector / infrared triple anti-collision and anti-collision rubber pole to ensure the safety of vehicles.

Capture Driver’s face (optional)
When vehicle leaves at the exit, two face photo respectively taken by cameras (built-in entry and exit controller) will be shown together side by side on PC screen for comparison to ensure the safety of parking.

Unique Technology of Detecting Unpaid Vehicle
System automatically records cars coming or leaving without reading cards or without paying.

MPS, Entry/Exit Station and PC Work Separately
MPS (Manual-pay-station) and Entry/Exit Station separately work fine without connecting to a PC. The data stored in MPS and Entry/Exit Station will be automatically uploaded to a computer if connected.

High Capacity Ticket Box
High capacity of 3000 tickets makes it unnecessary to change paper in the ticket box frequently. Ticket box can also dispense tickets quickly and steadily.

‘One-card-one-vehicle’
With this function, other parkers can not use the same card to enter before the owner of this card leave parking lot. It ensures safety for season parkers’ vehicle and avoids loss of parking fee for owner of parking lot.

Customized Charging Standards
Six different categories of customized charging standards for option, each comprises many sub items such as free time, charging rates during different periods, charging fee during the night, batch charging and maximum amount.

Automatic Plate Number Recognition (optional)
With plate number recognition, parkers can enter or leave parking lots without stop. In addition, if the plate number captured by exit camera does not match the plate number captured by entry camera, the system will alarm.

Suitable for Various Installing Environment
Modularized configuration structure fits various installing environment, such as double lane, single lane, separated entry & exit, and integrated entry & exit, etc. It is also capable of prompt function with check-in and check-out simultaneously in single lane.

Multi-type of Card
For season parkers, card type such as date-card, times-card, stored value card, cluster card (multiple-card for one-parking-space) can be set on software.

Idiot proof Software with Multi-function
The software provides the operators with idiot proof and user-friendly interface, and practical multi functions, such as managing registered parkers and occasional parkers, real-time surveillance etc. It also supports network version.

“Photo Comparison” ensures double parking safety (optional)
When vehicle leaves at the exit, two photos respectively taken by CCTV cameras (installed at entry and exit) will be shown together side by side on PC screen for comparison to ensure the safety of parking.

Flexible Management of Parking Spaces (optional)
LED screen displays parking space for either hourly parker or season parkers, and free parking space can be transferred to other cars, all this can be done by parking management software.

Xiamen Dashou Technology Ltd.
Tel: +86 592 5558660  Fax: +86 592 5511002  Email: info@dashou-china.com
Entry Station

It dispenses hourly parkers barcode ticket to gain access to the parking lots. While season parkers get access by self-service swiping their cards close to the reader built-in Entry Station, or enter w/o stop if window shield tag is read by external long range reader. Typically Entry Station is coupled with Barrier Gate, Loop Detector, and optional devices, depending on the site requirements.

Specification

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>AC 220V ±10%, 50/60Hz, Max. 1.5A</td>
</tr>
<tr>
<td>AC 110V ±10%, 50/60Hz, Max. 3.0A</td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-10°C~65°C (w/o heater)</td>
</tr>
<tr>
<td>-40°C~55°C (with heater)</td>
<td></td>
</tr>
<tr>
<td>Humidity</td>
<td>10%~95%</td>
</tr>
<tr>
<td>Ticket type</td>
<td>Barcode, 80g thickness thermal paper</td>
</tr>
<tr>
<td>Ticket size</td>
<td>80mm (W) × 70mm (L)</td>
</tr>
<tr>
<td>Capacity</td>
<td>3000 pcs. (80g, diameter 150mm) per roll</td>
</tr>
<tr>
<td>Ticket Cutter</td>
<td>High strength, free maintenance</td>
</tr>
<tr>
<td>Ticket dispensing time</td>
<td>&lt;1s</td>
</tr>
<tr>
<td>Card reader Interface</td>
<td>2 nos. Wiegand26 interface</td>
</tr>
<tr>
<td>Card Reader type</td>
<td>EM-ID, Mifare-IC, passive/active long range optional</td>
</tr>
<tr>
<td>Reading and verifying time</td>
<td>&lt;1s</td>
</tr>
<tr>
<td>Reading range</td>
<td>EM-ID 10cm; Mifare-IC 5cm</td>
</tr>
<tr>
<td>Resolution</td>
<td>256mm × 64mm</td>
</tr>
<tr>
<td>LED Display</td>
<td>LCD resolution 64 x 16, active size 256mm × 64mm</td>
</tr>
<tr>
<td>Intelligent Control Unit</td>
<td>40MHz Intel 80C51 Microprocessor</td>
</tr>
<tr>
<td>LED Display (optional)</td>
<td>High pressure, 3–15m</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>329mm × 345mm × 950mm</td>
</tr>
<tr>
<td>Humidity</td>
<td>10%~95%</td>
</tr>
<tr>
<td>Housing dimension</td>
<td>329mm × 345mm × 950mm</td>
</tr>
<tr>
<td>Weight</td>
<td>Around 55 KG</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-25°C~65°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>10%~95%</td>
</tr>
<tr>
<td>Housing dimension</td>
<td>329mm × 345mm × 950mm</td>
</tr>
<tr>
<td>Weight</td>
<td>Around 55 KG</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-25°C~65°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>10%~95%</td>
</tr>
<tr>
<td>Housing dimension</td>
<td>329mm × 345mm × 950mm</td>
</tr>
<tr>
<td>Weight</td>
<td>Around 55 KG</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-25°C~65°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>10%~95%</td>
</tr>
<tr>
<td>Housing dimension</td>
<td>329mm × 345mm × 950mm</td>
</tr>
<tr>
<td>Weight</td>
<td>Around 55 KG</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-25°C~65°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>10%~95%</td>
</tr>
</tbody>
</table>

Components Description

Barrier Gate

As one part of parking management system, barrier gate stops unauthorized parkers entering your premises, or giving access to authorized parkers.

Power Supply: AC 220V ±10%, 50/60Hz, Max. 1.5A
Motor (AC): 70W concrete decelerating torque motor
Controller: Intel 80C51 MCU, 40 MHz, controlled silicon motor control
Spring: Multi-spring balance
Loop detector input: Pulse width 100>ms
Infrared detector input: Pulse width 100>ms
Up & Down input: Pulse width > 1ms
Traffic light output: Relay output, max. current 1A
Loop detectorSync. output: Relay output, AC 220V, DC 12V/1A
Wireless remote (optional): Two button remote transmitter, distance >30m
RS-485 interface: 9600bps, ASCII decimal encoded
Arc: 45×100mm-Aluminum alloy, Max. 6m
Housing: 2mm cold-roller sheet, IP 54 level
Housing dimension: 329mm × 345mm × 950mm
Weight: Around 55 KG
Operating temperature: -25°C~65°C
Humidity: 10%~95%
Exit Station
With its season parkers can leave by self-service swiping their cards close to the reader built-in Exit Station, or leave w/o stop if window shield tag is read by external long range reader. Typically Exit Station is coupled with Exit Barriers, Loop Detectors, and optional devices, depending on the site requirements.

Specification
- **Power Supply**:
  - AC 220V±10%, 50/60HZ, Max.1.5A
  - AC 110V±10%, 50/60HZ, Max.3.0A
- **Operating temperature**:
  - -10°C～55°C (-w/o heater)
  - -40°C～55°C (-with heater)
- **Humidity**:
  - 10%～95%
- **Card Reader Interface**:
  - 2nos. Wiegand28 interface
- **Card Reader type**:
  - EM-ID, Mifare-IC, passive adaptive long-range optional
- **Reading and verifying time**:
  - <1s
- **Reading range**:
  - EM-ID 10cm
  - Mifare-IC 20cm
  - Passive long-range, 3-12m
  - Active long-range, 3-15m
- **LCD Display**:
  - First TFT resolution 480×800 (F style) / LCD Resolution 240×64 (AC style)
- **LED Display (Optional)**:
  - Resolution64×16, active size 256mm×64mm
- **Intelligent Control Unit**:
  - 40MHz Intel 80C51 Microprocessor
  - SRAM with holding circuit of losing electricity
  - With Real-time Calendar Clock
  - Multi Rs232 interface
  - Multi 0-5V Input / On-Off output
  - Multi Relay output
  - DC/DC Electrical isolation CAN interface, compatible with Peli CAN2.0B
  - Lightning protection circuit

Parking System Expert

Loop Detector
Connecting to a ground induction coil with two relays output, loop detector is to detect existence of vehicles.

Specification
- **Power Supply**:
  - AC 220V / DC 12V, 20mA
  - AC 220V / DC 12V
- **Frequency**:
  - 9~90KHZ
- **Sensitivity**:
  - Three-level sensitivity adjustable by manual
- **Environment Compensation**:
  - Automatic drift compensation technology avoids wrong detection caused by environmental temperature change.
  - Ground induction coil: 80uH ~ 300uH.

MPS (Manual-Pay-Station)
When leaving, hourly parkers drive to the Manual-Pay-Station and give the ticket to the guard, and the guard scans the ticket by a barcode scanner which is connected to the MPS and collects cash. The charging data will be displayed and stored in cash register.

Specification
- **Power Supply**:
  - AC 220V±10%, 50/60HZ, Max.1.5A
  - AC 110V±10%, 50/60HZ, Max.3.0A
- **Operating temperature**:
  - -10°C～55°C (w/o heater)
  - -40°C～55°C (with heater)
- **Humidity**:
  - 10%～95%
- **Card Reader Interface**:
  - 2nos. Wiegand28 interface
  - EM-ID or Mifare-IC
  - EM-ID 10cm
  - Mifare-IC 20cm
  - Passive long-range, 3-12m
  - Active long-range, 3-15m
- **LCD Display**:
  - 7 inch TFT resolution 480×800 (F style) / LCD Resolution 240×64 (AC style)
  - Resolution64×16, active size 256mm×64mm
- **Intelligent Control Unit**:
  - 40MHz Intel 80C51 Microprocessor
  - SRAM with holding circuit of losing electricity
  - With Real-time Calendar Clock
  - Multi Rs232 interface
  - Multi 0-5V Input / On-Off output
  - Multi Relay output
  - DC/DC Electrical isolation CAN interface, compatible with Peli CAN2.0B
  - Lightning protection circuit

Optional
- Photo Comparison, Driver Face Capture, Voice Prompt, Intercom, Parking Space Display, Parking Fee Display, Middle Distance Card Reader, Long Distance Card Reader, Red & Green Lights, Automatic License Plate Recognition, Heating System etc.
Parking Management System Software & PC

The Windows-based PMS software provides the operators with idiot proof and user-friendly graphic interface, using it is extremely simple, even without training. Operator will be able to run the system quickly. It provides multi functions, such as managing registered parkers and occasional parkers, setting charging standard, real-time surveillance, parking space display, managing events, managing report, registering card etc.

Parking Management System Diagram

- APS = Automatic Pay Station
- RVV6X0.5
- RVVP2X1
- PC
- Entry Station
- Exit Station
- Barrier
- Barcode Scanner
- RS232
- UTP CAT5E
- CAN BUS