Smart Car Parking System Software Instruction manual

November 2021

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Chapter 1 System Introduction

1.1 System Introduction

With the continuous development of the technology economy, cars have begun to popularize ordinary families, and a large number of vehicles have brought new problems to the management of parking lots. The traditional parking lot management mainly distributes the IC car to the vehicles entering the parking lot, and records the entry and exit time of the vehicle. As the main basis for billing, whether it is a fixed vehicle or a temporary vehicle, the entrance and exit parking lot must be in the entrance and exit parking before the car can enter and exit. In the parking lot, during the busy hours of the vehicle, this management method often causes traffic jams and delays the owner's valuable time.

In response to the above phenomenon, Shenzhen TigerWang Technology Co., Ltd. has introduced a new management concept, using the license plate recognition technology to replace the traditional IC car technology, to solve the phenomenon of parking lot entrance and exit traffic caused by the need to stop the brush when the vehicle enters and exits.

Card is the main (object/subject) in the system for monitoring the entry and exit of the vehicles.With the picture capturing and verification, prevent loss of vehicle effectively Thus, reduce rate of long waiting process at the cashier entrance thus complete the whole computerized of the car parking management.

The software was designed and programmed base on Windows98 + Windows2000 with the reliable Microsoft SQL Server7.0 database software. User friendly, simple in operation and perfect functions.

The main title includes Login, Maintenance, Files, Card, Real time Surveillance, Records, Reports, Exit etc.

Latest local networking technology was applied, rapid and reliable transmitting of data, fast card response resulting effective entry and exit clearance of vehicles.

Flexible Collection Format

Support 16 different type of collecting format

Report

Multiple reports can be created with fact and figures.

Card Management

Perfect card management system includes Card Inspection, Card Registration, Card Renewal, Card value Top-up, Card Lost, Card Restore, Card Exchange, Card Return, Card Data Download, Card Data Upload, Card Files and Card Query.

Authority Assignment Options

Different level of authority can be assigned to operator according to their respective job and position in the whole operation.

Multi car parks

Client has a full control and management of different sizes of car parks, including large car park with multi exit and entrance locations.

Cards are programmed into 5 different types, namely, **Temporary Card**, **Season Card, Cash Card, VIP Card and Operator Card.**

Temporary or Hourly Card

The card is pre register by the operator for the daily hourly rate parking system. Type of card and standard collection scheme is base on the type of vehicle and its size.

Payment at the Exit Point

Load the pre registered cards into the card dispenser. The driver obtain the card from the dispenser by pressing a button at the card dispenser machine, the barrier arm raise and the entrance is cleared for the vehicle to enter into the premises. At the Exit point, the driver handed over the card to the cashier and the cashier then scan the card , the system calculate the payment automatically according to the type of and size of the vehicle, the hour of the day entered. After the payment, the barrier raise for the traffic to flow. The returned card can be recycle from the system and put it back to the dispenser.

Payment at the Central Station

After the card was obtained from the dispenser, the driver parked at the temporary car park bay. Payment can be made in the central station, the operator on duty scan the card to the reader, after the payment is cleared, the operator will enter the updated data to the workstation and send the information to the controllers. A grace period was given to every vehicle to exit. At the exit point, the driver inserts the card into the card return machine for clearing of traffic.

Season Card

The card is created for long term and regular parking purpose at a fixed rate set by the management. At the exit point, the holder flash the card at the reader fitted at the guard post, after the validity is verified by the system, the barrier arm raised for the traffic. The procedure is the same for the season card at the entrance point.

VIP Card

The card is created as a compliment card to the owner of the building and its employee and the management staff personnel.

Prepaid /Cash Card

The card is validated by the amount of value in the card. Value can be top-up at the management's office.

Operator Card

This card is created for the log in/out duty of the operators. It sends confirmation command to the system for the hourly or overdue VIP/Season to clear the traffic at the exit point.

1.2 Operating procedures

1. Setup System Data perimeters
2. Setup on - Group Authority assignment, operators and car parking Files
3. Change of operator's password
4. Registration of new cards, and downloaded to the controller
5. Surveillance on Exit & Entrance's point
6. Card Inspection, card basic file information
7. Card Renewal, top-up value of cards, suspension of card, card restore, card return, card exchange, card exit premises.
8. Exit and entrance of vehicle, usage of cards, monitoring of parking bay, operator changing shifts, operators' transaction, original events' records, enquiries and printing.
9. Statistic and printing reports of car parking collection payment , flow of vehicles in and out of the premises.
10. Operator's duty schedule

Chapter II System Requirements

2.1 Hardware requirements

CPU of computer suggest above i5,4.0G,hard disk above 200G,depends on the car flow in parking lot.

2.2 Software Requirements

2.2.1 operating system

It is required to install Microsoft Windows 7, 8,10 and Microsoft Windows 11 based on 64bit operating system and Microsoft SQL Server 2008,2012 database or above to install the software.

2.2.2 Application software

The parking management system software has an installation usb drive of the computer, run the Setup.exe file in the Setup\Disk1 directory on the usb under Microsoft Windows operating system, and start to install the application software. The car "key" answers, after the installation is complete, the application software is installed in the default "D:\ParkWatch" directory. Create a "Parking Management\Parking Management" shortcut under "Start-Programs".

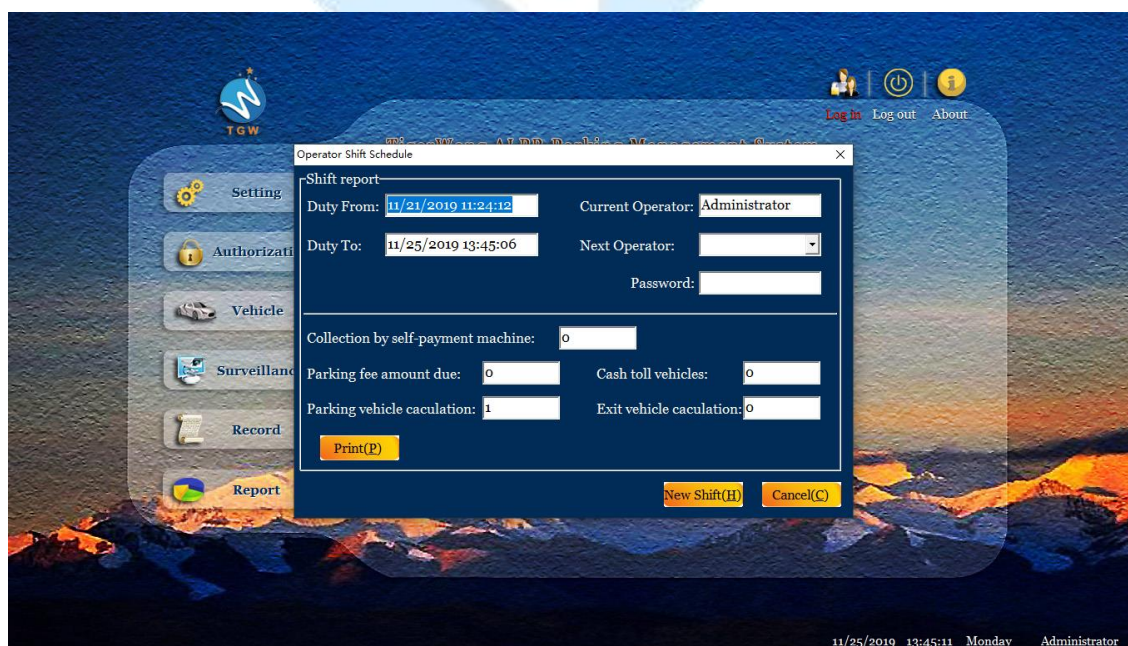# Chapter III Operating Instructions

3.1 Log in

Function: This is the portal for the operator to enter the system. When you go to work, enter your name and password to enter the system; when you are off work, fill in the shift form and leave the successor to log in to the system.

In the main menu, click the "Login System" button icon to enter the login system menu.

The operator enters the operator's name and password and presses the "confirm" button. After the system determines that the password is correct, the operator is allowed to enter the system.

When the operator gets off work, click the "Login System" button icon to enter the operator handover data entry menu. The operator checks the data of the issued, reclaimed, and remaining temporary vehicles, and enters the number of receiving, actual delivery, and actual parking fees. And other data. If necessary, press the "print" button to start printing the shift schedule; press "cancel" to return to the system to continue to work; press the "new shift" button to complete the off-duty operation, enter the login system menu, leaving other operators to work into the system.

3.2 Maintain

Provide maintenance tools for various parameters of the system, operator password modification, charging standards, and data.
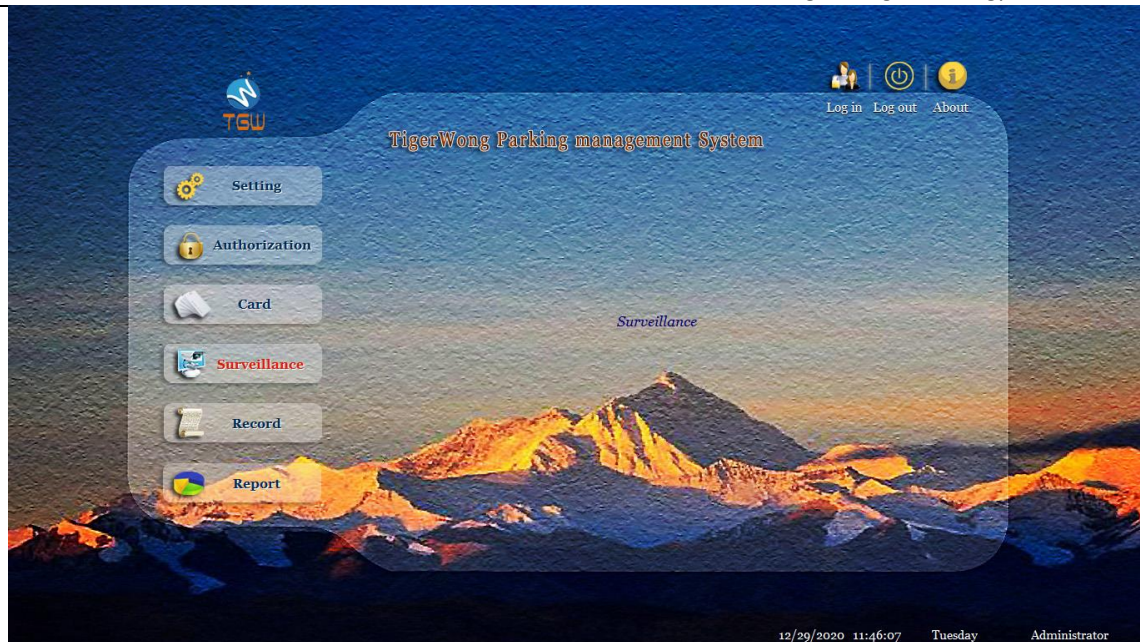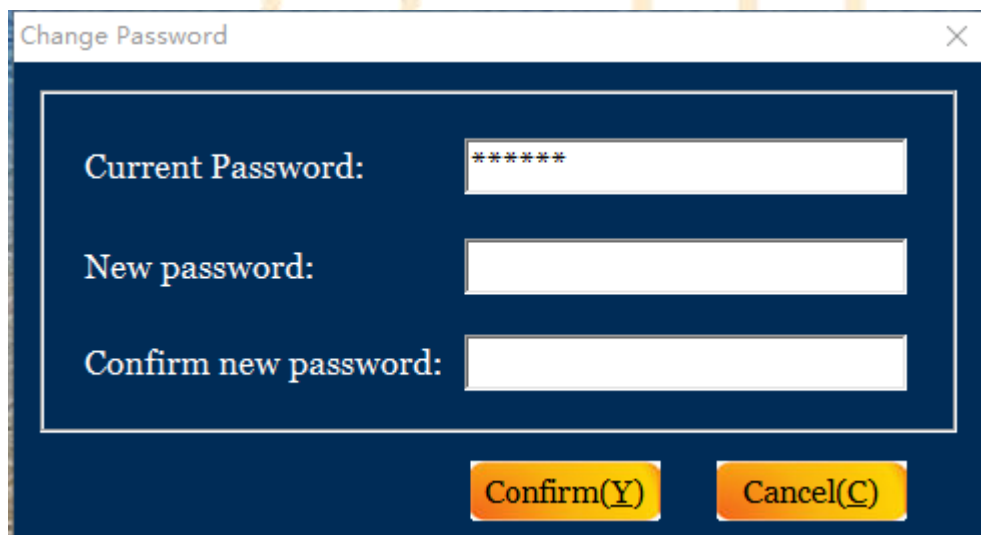
3.2.1 Change Password

If the operator wants to modify his or her own password, he can select "Change Password" in the "Maintenance" menu to enter the operator modification password interface and modify the password.

Enter the old password and two new passwords. Press the "Confirm" button. After the system determines that the old password is correct and confirms that the new password entered correctly, the user file is automatically modified to complete the password modification. Otherwise, an error is displayed.
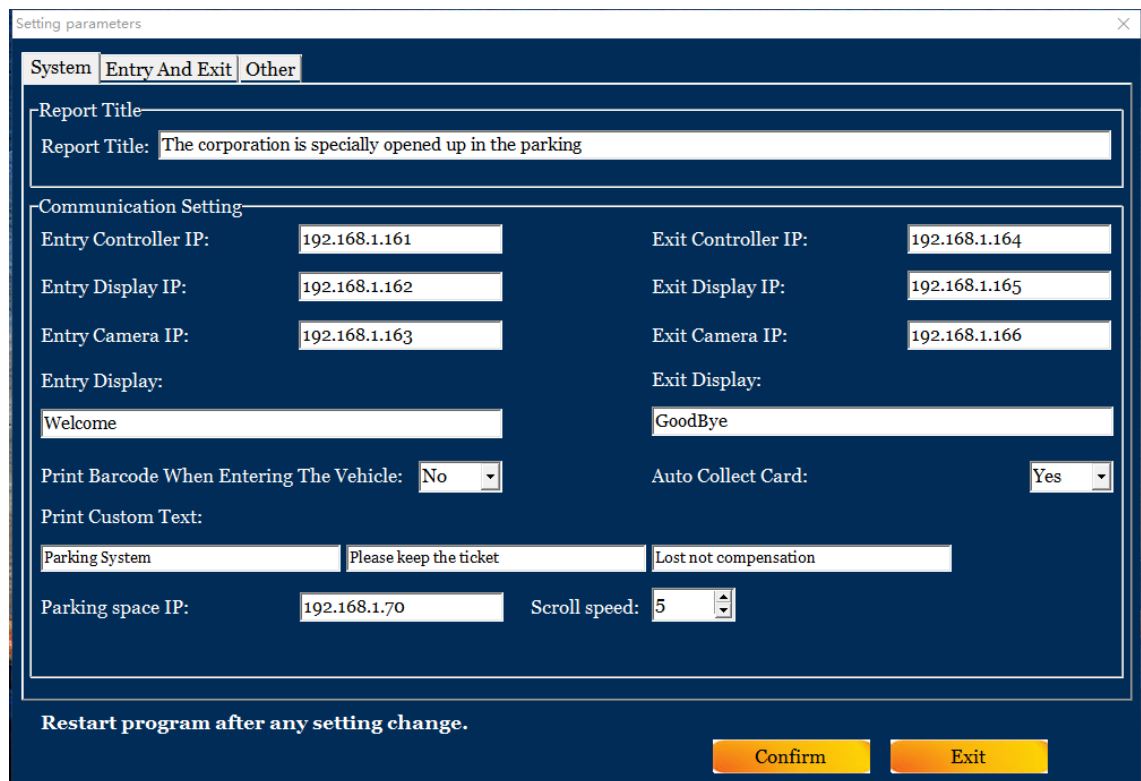
Press the "Cancel" button to exit.

3.2.2 Setting parameters

Function: Set the parameters of the system, including: system parameters, access parameters and other parameters

3.2.2.1 System parameters

This interface mainly involves the modification of the report title, the IP of the controller, the IP of the display (the 485 wiring is not filled),Print custom text, parking space ip.

Set the parameters, press the "confirm" button to save the settings, press the "Abandon" button to cancel the settings.

Press the "Exit" button to exit.

3.2.3 System maintenance

System Maintenance deletes vehicle capture images and access records, backup snapshot images and data to a specified directory before the specified date.

In the "Maintenance" menu, click "Maintenance Data" to enter the system data maintenance interface for data maintenance.

Delete captured image: Enter the date to delete the captured image, press the "Delete captured image" button, the system will automatically delete the captured image before the specified date from the system.

Delete the entry and exit records: Enter the date to delete the entry and exit records, press the "delete entry and exit record" button, the system will automatically delete the entry and exit records before the specified date from the system.
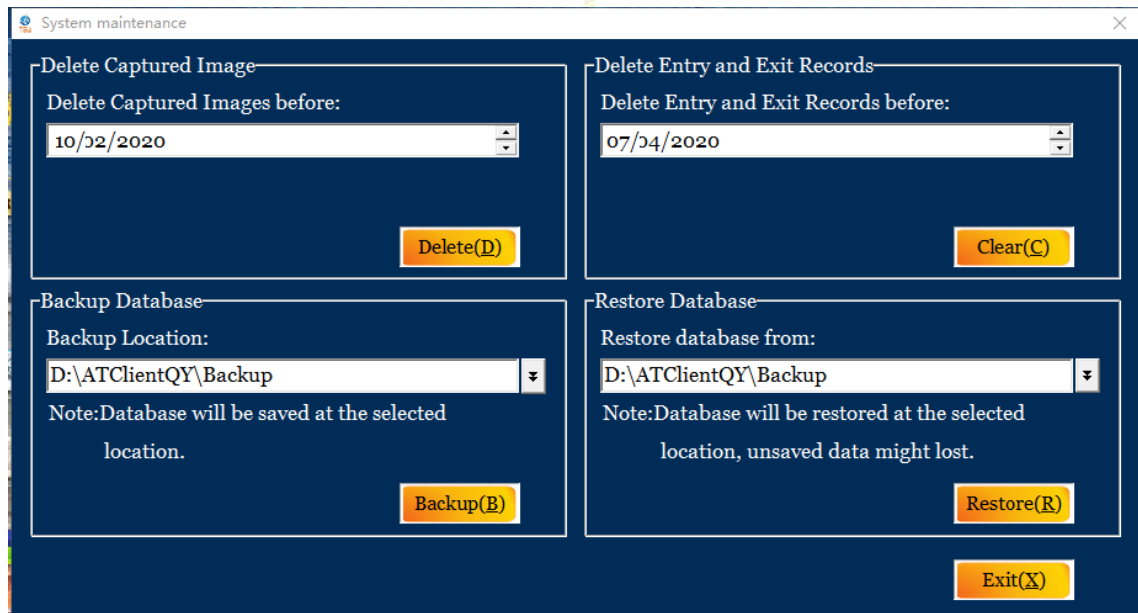
Note: Make a data backup before deleting the record!

Back up all data: Enter the directory where all data is backed up. Press the "Backup All

Data" button and the system will automatically back up all data from the specified directory to the specified directory.

Restore all data: Enter the directory where all data is restored. Press the "Restore All Data" button and the system will automatically restore all data from the specified directory to the specified directory.

Exit: Press the "Exit" button to exit.

3.2.4 Payment scheme

The "payment scheme" can set the charging standards for various types of vehicles. There are eight types, and the name can be modified in the setting parameters.

In the "Maintenance" menu, click "Set Charge" to enter the charging standard setting interface, and set the charging standard.

Set the charging method for each type of car, press the "confirm" button to save the settings. Press the "Abandon" button to cancel the setting.

Press the "Exit" button to exit.

Note: The charging standard calculation method should be set by the professional, and will not be changed after the system provider has set it. If you need to make changes, please contact the system vendor to avoid charging errors.
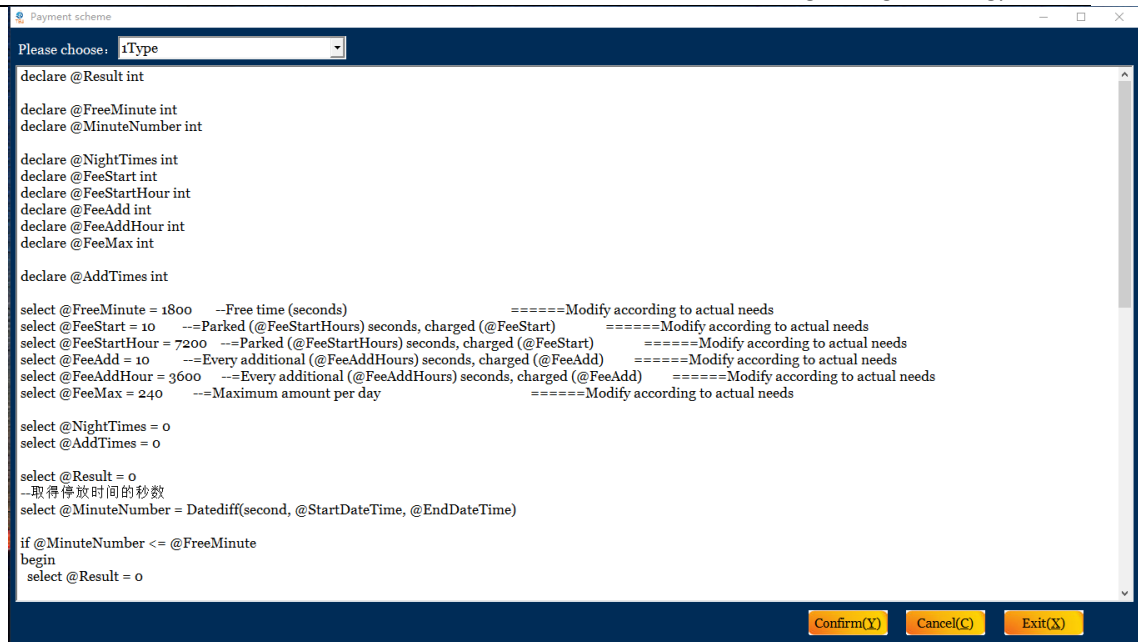
3.3 File

Click the "File" button icon in the main menu to enter the file management menu, and you can manage the system permission group, system operator and parking lot files. Normal operators do not have this permission.

3.3.1 Permission group file

In the "Files" interface, select the "Permission Group File" option to enter the "Permission Group File" menu.

"Privilege Group File" sub-function can add, delete, and modify files of system permission group.

Add permission group records: Press the "Add" button, enter the permission group name and permissions, press the "Save" button to save, and press the "Cancel" button to cancel adding permission groups.

Delete the permission group record: Press the "Delete" button, the system will pop up a question menu, prompting the operator if you really want to delete the permission group file. After confirming, the system deletes the permission group file, otherwise it will give up deleting.
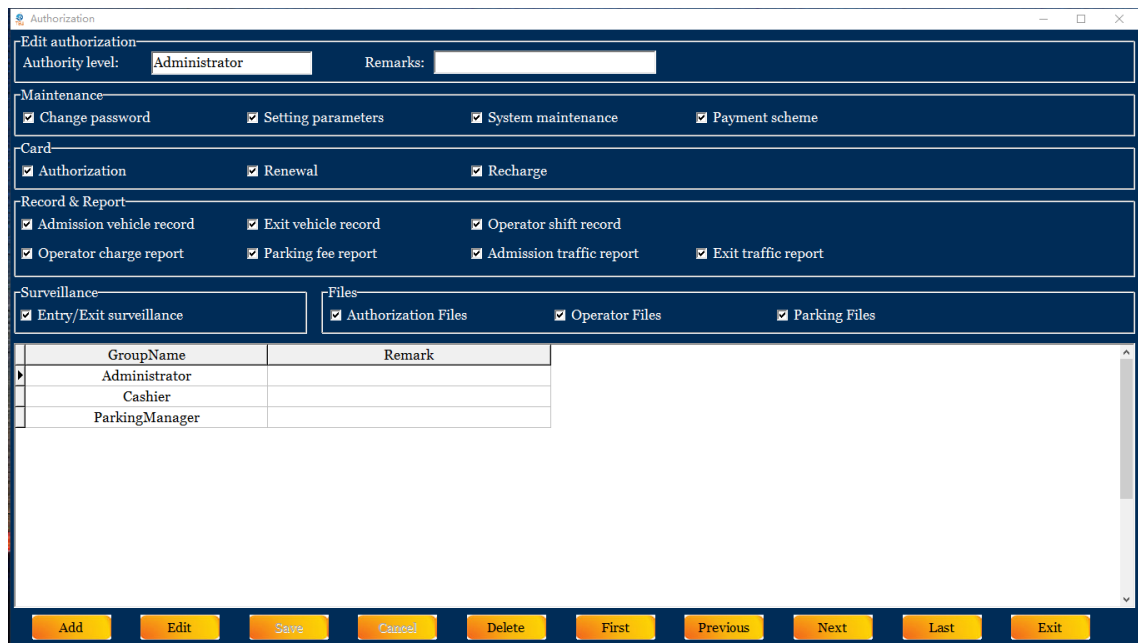
Modify the permission group record: press the "Edit" button, modify the permission group name, permissions, press "Save" button to save, press "cancel" button to cancel modify the permission group.

Browse permission group records: Press the "First", "Previous", "Next", "Last" buttons to browse the records of the permission group.

Preview / print operator records: Press the "Preview" button to enter the preview menu (for details, see Print Preview).

Refresh permission group record: Press the "Refresh" button to refresh the permission group record.

Exit：Press the "Exit" button to exit.

3.3.2 Operator profile

Select the "operator file" option in the "file" interface to enter the "operator file" menu.

The "operator file" sub-function can add, delete, and modify the system operator's file.

Add operator records: Press the "Add" button, enter the operator name, select the permission group, press the "Save" button to save, and press the "Cancel" button to cancel adding an operator. The password for the new operator is empty.

Delete the operator record: Press the "Delete" button, the system will pop up a question menu, prompting the operator if he really wants to delete the operator's file, after confirming, the system deletes the operator file, otherwise give up deleting.

Change the operator record: press the "Edit" button, modify the name of the operator and the rights group, press "Save" button to save, press "Cancel" button to cancel the modifications operator.
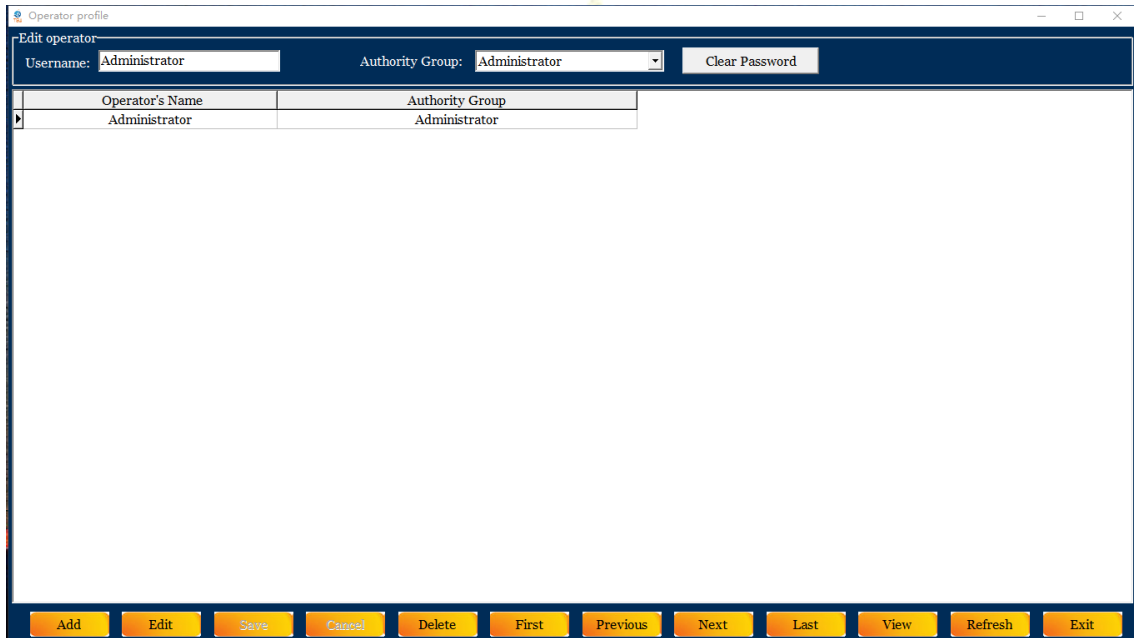
Browse operator records: Press the "First", "Previous", "Next", "Last" buttons to browse the operator records.

Preview / print operator records: Press the "Preview" button to enter the preview menu (for details, see Print Preview).

Refresh permission group record: Press the "Refresh" button to refresh the permission

group record.

Clear operator password: When the operator forgets his password, the administrator can clear the operator password and let the operator reset his password. Press the "Clear Password" button, the system pops up a question menu, prompting the operator whether to really clear the password of the operator. After confirmation, the system clears the password of the operator, otherwise it will give up the password. Press the "Exit" button to exit.

3.3.3 Parking file

Select the "Parking Lot File" option in the "Files" interface to enter the "Parking Lot File" menu.

The "parking lot file" sub-function can add, delete and modify the parking lot file.

Add parking lot records: Press the "Add" button, enter the number and name of the parking lot, press the "Save" button to save, and press the "Cancel" button to cancel adding a parking lot.

Deleting parking lot records: Press the "Delete" button, the system pops up a question menu, prompting the operator if you really want to delete the parking lot files. After confirming, the system deletes the parking lot files, otherwise the deletion is abandoned.
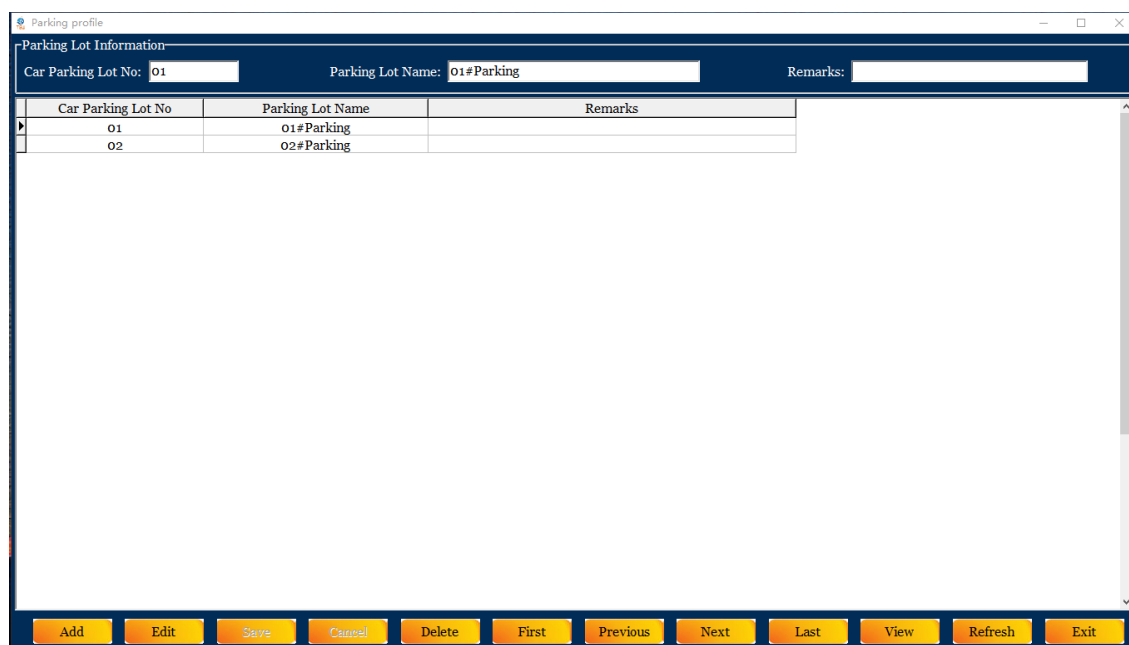
Modify the parking lot record: Press the "Edit" button, modify the number and name of the parking lot, press the "Save" button to save, and press the "Abandon" button to cancel the modification of the parking lot.

Browse parking lot records: Press the "First ", "Previous", "Next", "Last " buttons to browse the parking lot records.

Preview / print parking lot records: Press the "Preview" button to preview the print effect. (For details, see Print Preview）。

Refresh the parking lot record: Press the "Refresh" button to refresh the parking lot record.

Exit：Press the "Exit" button to exit.

3.4 vehicle

Click the "vehicle" button icon in the main menu to enter the vehicle management menu. Vehicle management includes the following sub-functions:Registration,Renewal,Recharge, Error correction, etc.

3.4.1 Registration

In the "Vehicle" menu, click on the "Registration" to enter the vehicle issuance interface, and issue the vehicle.

Add release records: Press the "Add" button to enter the release status. Enter the vehicle number,type of car, type of vehicle,vehicle color,value balance , validity period, payment account, remarks, etc., and press the "Save" button to complete the issuance work and store the issuance record. Otherwise, an error message is displayed. Press the "Cancel" button to cancel the issuance of the vehicle.

Modify the release record: Press the "Edit" button to enter the state of modifying the release record. After modification, press the "Save" button to save and press the "Cancel" button to cancel modification of the release record.

Browse release notes：Press the "First ", "Previous", "Next", "Last " buttons to browse the parking lot records.

Query the release records: Press the "Search" button to query the records that meet the specified conditions (see the record query for specific operations).

Preview / print the release record: press the "Preview" button to preview the print effect

(for details, see Print Preview).

Refresh the release record: Press the "Refresh" button to refresh the release record.

Exit：Press the "Exit" button to exit.

Card No.	Vehicle No.	Type of car	Valid date	Value balance	Type of vehicle	Vehicle model No.	Vehicle color	Name
04457274	AGW7604	VIP	01/28/2021	0.00	1Type			
19337370	BKF8175	Cash		460.00	1Type			
19412778		Temporary		0.00				
19438874		Temporary		0.00				
19652458	JSY2511	Season	01/28/2021	0.00	1Type			
19932938		Temporary		0.00				
20424554		Temporary		0.00				
20465434		Temporary		0.00				
20654426	AGG9772	VIP	01/28/2021	0.00	1Type			
20657370		Temporary		0.00				
20862474		Temporary		0.00				
20946138		Temporary		0.00				
21015306	BJP6359	Season	01/28/2021	0.00	1Type			
21716490		Temporary		0.00				

3.4.2 Renewal

In the "vehicle" menu, click the mouse to "Renewal" to enter the vehicle extension interface, and carry out the vehicle extension work.

Add extension records: press the "Add" button, enter the vehicle number,new valid date, payment value, remarks, etc., and press the "Save" button, the system automatically stores the extension records, and modify the basic file records of the vehicle to complete the vehicle extension. Press the "Cancel" button to cancel the vehicle extension

Modifying the deferred record: Press the "Edit" button to enter the state of modifying the deferred record. After modification, press the "Save" button to save and press the "Cancel" button to cancel modification of the deferred record.

Browse extension records：Press the "First ", "Previous", "Next", "Last " buttons to browse the parking lot records.

Query deferred records: Press the "Search" button to search for records that meet the specified conditions (for details, see Record Inquiry).

Preview / print the extension record: press the "Preview" button to preview the print effect (for details, see Print Preview).

Refresh the extension record: Press the "Refresh" button to refresh the release record.

Exit：Press the "Exit" button to exit.

3.4.3 Recharge

In the "Vehicle" menu, click "Recharge" to enter the vehicle recharge interface to recharge the vehicle.

Increase the recharge record: press the "Add" button, enter the vehicle number, recharge amount, remarks, etc. Press the "Save" button, the system automatically stores the recharge record to complete the recharge of the vehicle. Press the "Cancel" button to cancel the recharge of the vehicle.

Modify the recharge record: Press the "Edit" button to enter the status of the recharge record. After modification, press the "Save" button to save, press the "Cancel" button to cancel the modification of the recharge record.

View recharge records: Press the "First", "Previous", "Next", "Last" buttons to browse the recharge record.

Search recharge records: Press the "Search" button to query the records that meet the specified conditions (see the record query for specific operations).

View/print recharge record: Press the "View" button to preview the print effect (see the print preview for details).

Refresh the recharge record: Press the "Refresh" button to refresh the recharge record.

Exit: Press the "Exit" button to exit.

3.5 Surveillance

"Access Surveillance" charges management of vehicle access. This is the main functional module of the system.

In the main menu, click the "Surveillance" button icon to enter the access control menu. The upper part of the "Surveillance" menu displays the image of the entering vehicle. The upper middle shows the number of parking lots in real time, the middle shows the information of the entering vehicle and the prompt information of the system, and the lower right is the contrast image.

Parking status: Real-time monitoring of the total number of vehicles and the number of remaining vehicles. The number of vehicles entering and leaving can be reflected in real time here. When the entrance enters a car, the number of empty spaces is reduced by one; when exiting a car, the number of empty spaces is increased by one.
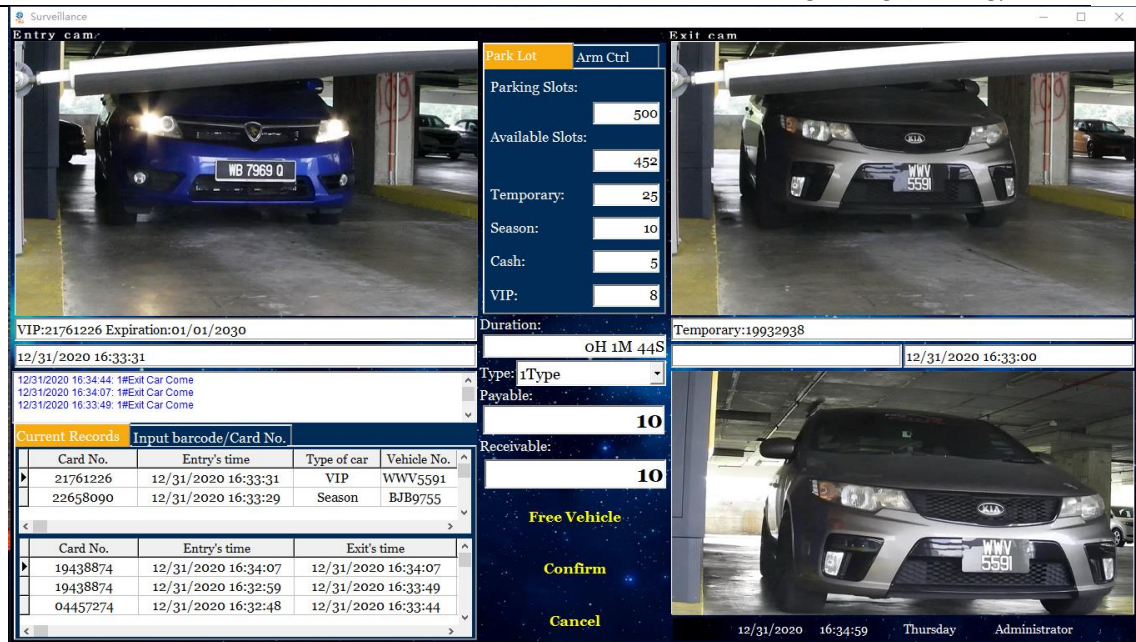
Entry Picture Capturing

Click "surveillance" to enter into the surveillance mode,

At the Entry point as the vehicle approached the card dispenser machine, the capturing is done after the card is obtained. The upper left corner column show the captured picture of vehicle at the entry point.

Software controlling the operation of traffic barrier

In the upper center portion showing all the control button to control movement of all the traffic barriers. In the middle row showing entry and exit card's particular, time etc.

Vacant car park availability and details indication

Lower center portion showing total time the card has been in the parking bay, type of vehicle and the payment collectable. The indication of number of vacant lot is available in the workstation, so that the front cashier could take necessary action to inform the public in the event the parking lot is no more available.

An Auto indication LED display Board is available with additional gadget been added to the system.

Exit Picture Capturing and picture verification

The lower right corner showing captured picture of vehicle at the exit point. The security personnel could do some verification and comparison between the entry and exit's picture, thus to enhance further security measures.

The lower left corner portion showing details of traffic transaction in the parking bay.

Reset - To reset all barrier control and process.

3.6 Record

The "record" provides a means of querying the entry and capture images of the vehicle, the appearance of the vehicle and the capture image, the vehicle usage record, and the like. Users can flexibly enter the query conditions and query the records that meet the conditions. The "record" contains six sub-function modules: vehicle entry record, vehicle exit record, vehicle usage record, on-site parking status, operator handover record, and operator duty account.

3.6.1 Admission vehicle records

In the "Record" menu, select the " Admission Vehicle Record" option and enter the vehicle entry record query interface.

Browse the admission record: Press the "first", "previous", "next" and "last" buttons to browse the query results.

Search the entry record: Press the "Search" button to query the record that meets the specified conditions (see the record query for specific operations). Unrecorded records are displayed in green as the base color, and recorded records are displayed in light yellow.

View/print admission record: Press the "View" button to preview the print effect (for details, see Print Preview).
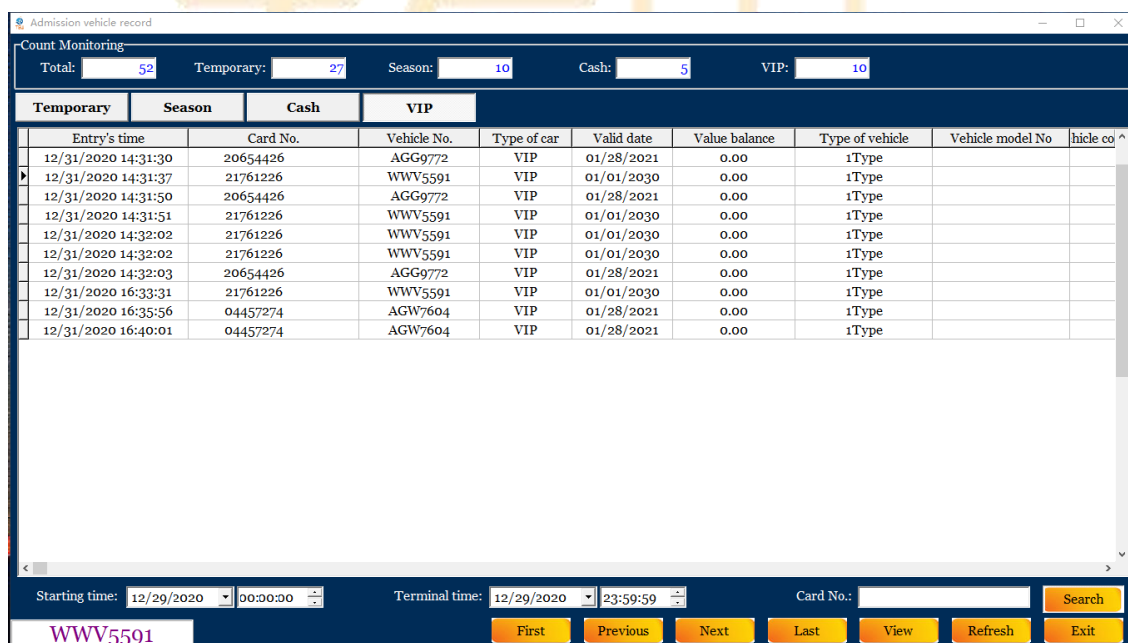
Refresh the entry record: Press the "Refresh" button to refresh the entry record.

Viewing the image of the entrance capture: To view the captured image of the entrance, simply double-click the right mouse button in the form of the vehicle entry record to enter the menu for viewing the image of the vehicle entrance capture. When you double-click the right mouse button on the captured image, you can return to the query interface of the vehicle entry record.

Viewing the image of the entrance capture: In the snapshot image of the vehicle entrance, press the "first", "previous", "next" and "last" buttons to check the captured image of each vehicle.

Preview/Print Admission Capture Image: In the capture image of the vehicle entry, press the "View" button to enter the preview menu. (For details, see Print Preview).

Exit: Press the "Exit" button to exit.

3.6.2 Exit vehicle record

In the "Record" menu, click "Exit Vehicle Record" to enter the exit record query interface.

Browse the appearance record: Press the "first", "previous", "next", "last" buttons to browse the query results.

Search the appearance record: Press the "Search" button to query the record that meets the specified conditions (see the record query for specific operations).

View/print the exit record: Press the "View" button to preview the print effect (see the print preview for details).

Refresh the exit record: Press the "Refresh" button to refresh the exit record.

View the image of the captured image: To view the captured image of the entrance, simply double click the right mouse button in the form of the vehicle's appearance record to enter the menu for viewing the image of the vehicle's entry and exit. The image on the left is the image of the entrance capture. The image on the right is the captured image. When you double-click the right mouse button on any captured image, you can return to the query interface of the vehicle's exit record.

Browse the image of the captured image: In the captured image of the vehicle's entry and exit, press the "first", "previous", "next" and "last" buttons to check the captured image of each vehicle.

View/Print Outbound Capture Image: In the captured image of the vehicle's entry and exit, press the "View" button to enter the preview menu. (For details, see Print Preview).

Exit: Press the "Exit" button to exit.

Exit vehicle record

Card No.	Vehicle No.	Type of car	Valid date	Value balance	Entry's time	Exit's time	Type of vehicle
20654426	AGG9772	VIP	01/28/2021	0.00	12/29/2020 09:25:57	12/31/2020 14:27:55	1Type
21761226	WWV5591	VIP	01/01/2030	0.00	12/29/2020 09:26:01	12/31/2020 14:27:58	1Type
19652458	JSY2511	Season	01/28/2021	0.00	12/29/2020 09:26:03	12/31/2020 14:28:00	1Type
22658090	BJB9755	Season	01/28/2021	0.00	12/29/2020 09:26:04	12/31/2020 14:28:02	1Type
19337370	BKF8175	Cash		1,000.00	12/29/2020 09:26:05	12/31/2020 14:28:04	1Type
20654426	AGG9772	VIP	01/28/2021	0.00	12/31/2020 14:28:29	12/31/2020 14:28:29	1Type
21761226	WWV5591	VIP	01/01/2030	0.00	12/31/2020 14:28:31	12/31/2020 14:28:31	1Type
19652458	JSY2511	Season	01/28/2021	0.00	12/31/2020 14:28:32	12/31/2020 14:28:32	1Type
22658090	BJB9755	Season	01/28/2021	0.00	12/31/2020 14:28:34	12/31/2020 14:28:34	1Type
19337370	BKF8175	Cash		460.00	12/31/2020 14:28:35	12/31/2020 14:28:35	1Type
19337370	BKF8175	Cash		460.00	12/31/2020 14:28:36	12/31/2020 14:28:36	1Type
20424554		Temporary		0.00	12/29/2020 09:26:06	12/31/2020 14:28:38	1Type
19337370	BKF8175	Cash		460.00	12/31/2020 14:28:45	12/31/2020 14:28:45	1Type
20424554		Temporary		0.00	12/31/2020 14:28:47	12/31/2020 14:28:47	1Type
20465434		Temporary		0.00	12/29/2020 09:26:08	12/31/2020 14:28:48	1Type
20465434		Temporary		0.00	12/31/2020 14:28:55	12/31/2020 14:28:55	1Type
20946138		Temporary		0.00	12/29/2020 09:26:09	12/31/2020 14:28:56	1Type
20946138		Temporary		0.00	12/31/2020 14:29:01	12/31/2020 14:29:01	1Type
21015306	BJP6359	Season	01/28/2021	0.00	12/29/2020 09:26:10	12/31/2020 14:29:02	1Type
04457274	AGW7604	VIP	01/28/2021	0.00	12/29/2020 09:25:07	12/31/2020 14:29:09	1Type
19438874		Temporary		0.00	12/29/2020 09:25:14	12/31/2020 14:29:11	2Type
22563098		Temporary		0.00	12/29/2020 09:25:15	12/31/2020 14:29:19	4Type
19932938		Temporary		0.00	12/29/2020 09:25:16	12/31/2020 14:29:26	3Type
22563098		Temporary		0.00	12/31/2020 14:29:35	12/31/2020 14:29:35	1Type
20657370		Temporary		0.00	12/29/2020 09:25:20	12/31/2020 14:29:36	1Type
20862474		Temporary		0.00	12/29/2020 09:25:18	12/31/2020 14:29:40	1Type

Starting exit time: 12/31/2020 00:00:00   Terminal exit time: 12/31/2020 23:59:59   Card No:

Search

WWV5591   First Previous Next Last Find View Refresh Exit

Exit vehicle record
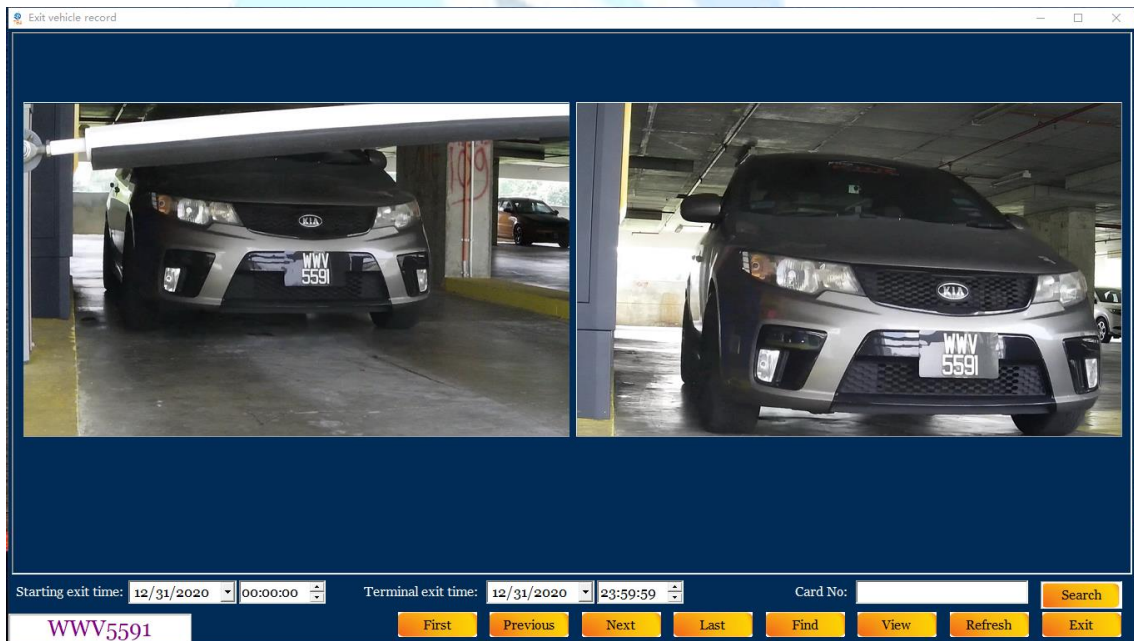
Starting exit time: 12/31/2020 00:00:00   Terminal exit time: 12/31/2020 23:59:59   Card No:

Search

WWV5591   First Previous Next Last Find View Refresh Exit

The corporation is specially opened up in the parking
Parking fee report

Date:12/29/2020--12/31/2020

Date	Card fee				Management fee			Total
	Registration	Renewal	Recharge	Management	Chargeable	Collected	SelfPayment	
12/29/2020	0.00	0.00	100.00	100.00	0.00	0.00	0.00	100.00
Total	0.00	0.00	100.00	100.00	0.00	0.00	0.00	100.00

Operator:Administrator   Print date: 12/29/2020 10:33:31

3.6.3 Operator shift record

In the "Record" menu, click "Operator Shift Record" to enter the operator handover record query interface.

View operator shift record: Press the "First", "Previous", "Next" and "Last" buttons to view the operator's shift record.

Search the operator's shift record: Press the "Search" button to query the record that meets the specified conditions (see the record query for specific operations).

View/print operator shift record: Press the "View" button to preview the print effect (see the print preview for details).

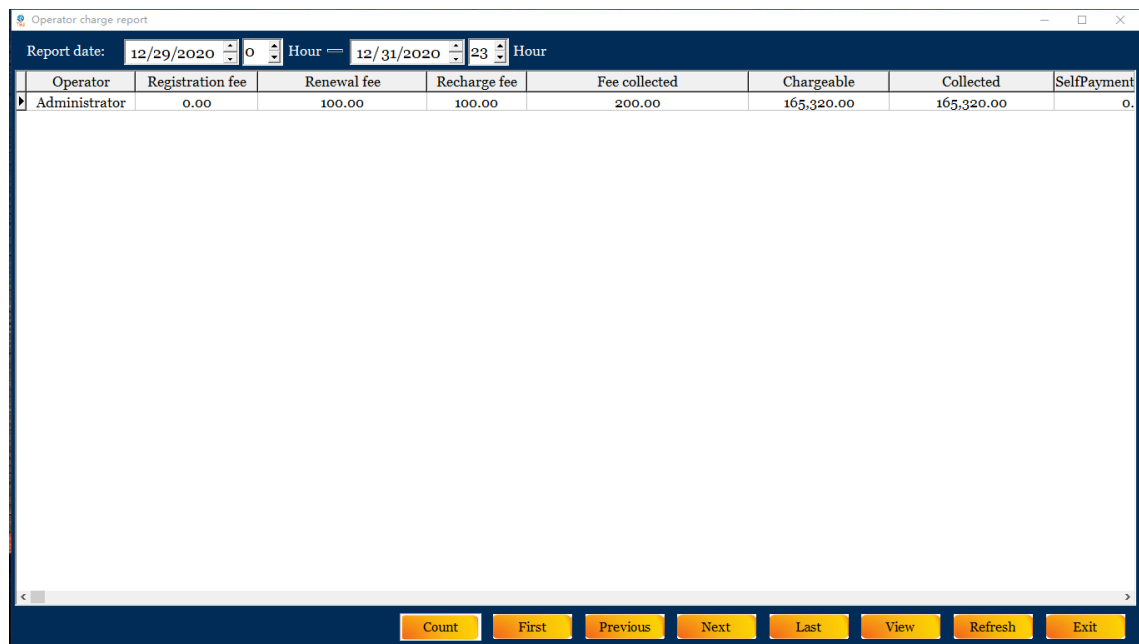Refresh operator shift record: Press the "Refresh" button to refresh the operator shift record.

Exit: Press the "Exit" button to exit.

Duty started	Duty ended	Previous operator	Next operator	Advance receipt amount	Paid amount	SelfPayment
12/28/2020 15:50:52	12/29/2020 10:23:57	Administrator		165,860.00	165,320.00	0.00

◉ Duty started   ◉ Duty ended   ◉ Previous operator   ◉ Next operator   12/31/2020   Search

First   Previous   Next   Last   Find   View   Refresh   Exit

3.7 Report

The "Report" provides statistics on the flow of vehicles entering the vehicle by day, month and year, and outputs statistics on the traffic flow of the entrance vehicles. The traffic flow of the vehicles on the exit is classified by day, month and year. And the statistics of the car class, and output the traffic flow statistics report; the parking fee charged by the operator is classified according to the operator, day, month and year, and the charging statistics report is output.

3.7.1 Operator charge report

In the "Report" menu, click "Operator charge report" to enter the entry traffic statistics table interface.

The entry traffic statistics table is based on the hourly (one-hour divided into 24 hours), the split class, and the split class to calculate the traffic volume of the designated lane entering the designated yard within the specified date.

Statistical entry traffic statistics table: Enter the date, parking lot, and entrance of the statistics. Press the "Count" button. The system automatically reports the traffic flow by the hour, the class, and the class.

View the entry traffic statistics table: Press the "First", "Previous", "Next" and "Last" buttons to view the statistics.

View/print the arrival traffic statistics table: Press the "View" button to preview the print effect (see the print preview for details).

Refresh the arrival traffic flow daily statistics table: Press the "Refresh" button to refresh the arrival traffic flow daily statistics table.

Exit: Press the "Exit" button to exit.

3.7.2 Parking fee Report

In the "Report" menu, click the "Parking fee Report" to enter the operator charge date statistics table interface.

Statistical operator charge daily statistics table: Enter the date of the statistics, press the "Count" button, the system automatically counts the operator's various charges.

View the operator's charge daily statistics table: Press the "First", "Previous", "Next" and "Last" buttons to view the statistical results.

View/Print Operator Charge Daily Statistics: Press the "View" button to preview the print results (see the print preview for details).

Exit: Press the "Exit" button to exit.

Operator	Registration fee	Renewal fee	Recharge fee	Fee collected	Chargeable	Collected	SelfPayment	Total payment received
UserD	0.00	0.00	0.00	0.00	9,579,600.00	14,000.00	0.00	14,000.00
UserN	0.00	0.00	0.00	0.00	4,115,400.00	14,200.00	0.00	14,200.00
Administrator	0.00	0.00	0.00	0.00	1,847,460.00	8,110.00	0.00	8,110.00

3.7.3 Entrance traffic report

In the reports and menus, click the "Entrance Traffic Report" and the traffic statistics table interface.

The entrance traffic statistics table calculates the amount of traffic that the designated lane enters the designated yard within a specified time based on the date, the grade of the vehicle, and the grade of the vehicle.

Statistical Item Traffic Statistics: Enter the date, code, and entry for the statistics. Press the "Count" button. The system automatically reports traffic by date, class, and class.

View the entry traffic statistics table: Press the "first", "previous", "next", "last" buttons to view the statistics.

View/Print Arrival Flow Statistics: Press the "View" button to preview the print (see Print Preview for details).

Refresh the entry traffic statistics table: Press the "Refresh" button to refresh the entry traffic statistics table.

Exit: Press the "Exit" button to exit.

Date	Temporary1Type	Temporary2Type	Temporary3Type	Temporary4Type	Temporary5Type	Temporary6Type	Temporary7Type	Temporary8Type	Temporary Total
12/29/2020	9	0	0	0	0	0	0	0	9

3.7.4Exit traffic report

In the reports and menus, click the "Exit Traffic Report" and the traffic statistics table interface.

The export traffic statistics table calculates the amount of traffic that the designated lane enters the designated yard within a specified time based on the date, the grade of the vehicle, and the grade of the vehicle.
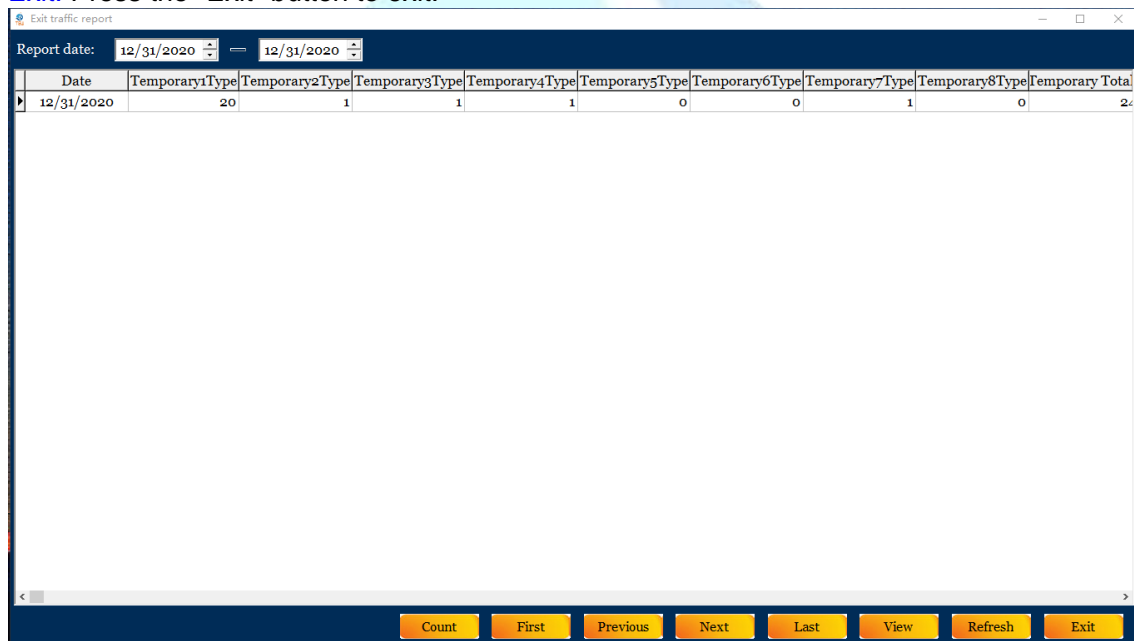
Statistical Item Traffic Statistics: Enter the date, code, and exit of the statistics. Press the "Count" button. The system automatically reports traffic by date, class, and class.

View the entry traffic statistics table: Press the "first", "previous", "next", "last" buttons to view the statistics.

View/Print Arrival Flow Statistics: Press the "View" button to preview the print (see Print Preview for details).

Refresh the entry traffic statistics table: Press the "Refresh" button to refresh the entry traffic statistics table.

Exit: Press the "Exit" button to exit.

3.8 About

"About" displays the software name, version information, and so on.

In the "Help" menu, click on "About" to enter the information interface.

Software information includes software name, version, development date, design platform and development platform.

Press the "Exit" button to exit.

3.12 Record Search

Press the "Search" button in each function module to enter the record query menu.
The search is divided into two types:
One is a quick search that exists in every function:
The other is a conditional combination search, in which you can enter any search condition.
The format of each search condition is: logical character + keyword + comparator + comparison value. The logical character refers to the logical relationship between each query condition. There are two kinds of logical characters: and, or; the keyword refers to the key field in the query record, which is automatically provided by the system for the user to select; Refers to the comparison between keywords and comparators, including: > (greater than), >= (greater than or equal), = (equal to), <= (less than or equal to), < (less than), ! = (not equal) , Like (similar).
Add the query condition: After selecting the keyword and the comparison character, enter the comparison value. If the increase is not the first query condition, you need to select the logic. Press the "Add" button to add the input query condition to the query condition list.
Modify the query condition: In the query condition list, select the query condition to be modified by left mouse button, modify the logical character, keyword, comparison character, comparison value, and press the "Edit" button to replace the query condition.
Delete the query condition: In the query condition list, left mouse button to select the query condition to be deleted, press the "Delete" button to delete the query condition.
Clear the query conditions: Press the "Empty" button to clear the list of query conditions.
Query records according to query conditions: After determining the input query conditions, press the "Search" button to start querying the records that meet the conditions and exit the query menu. If you do not enter any query conditions, just press the "Search" button, the system will query all the records.
Press the "Exit" button to exit the query menu.