



Yufei Intelligent Parking Management System

Software Installation and Operation Manual

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Remark:Hereby Yufei Intelligent Parking Management System is referred to as Yufei.

Chapter One: Installation Preparation

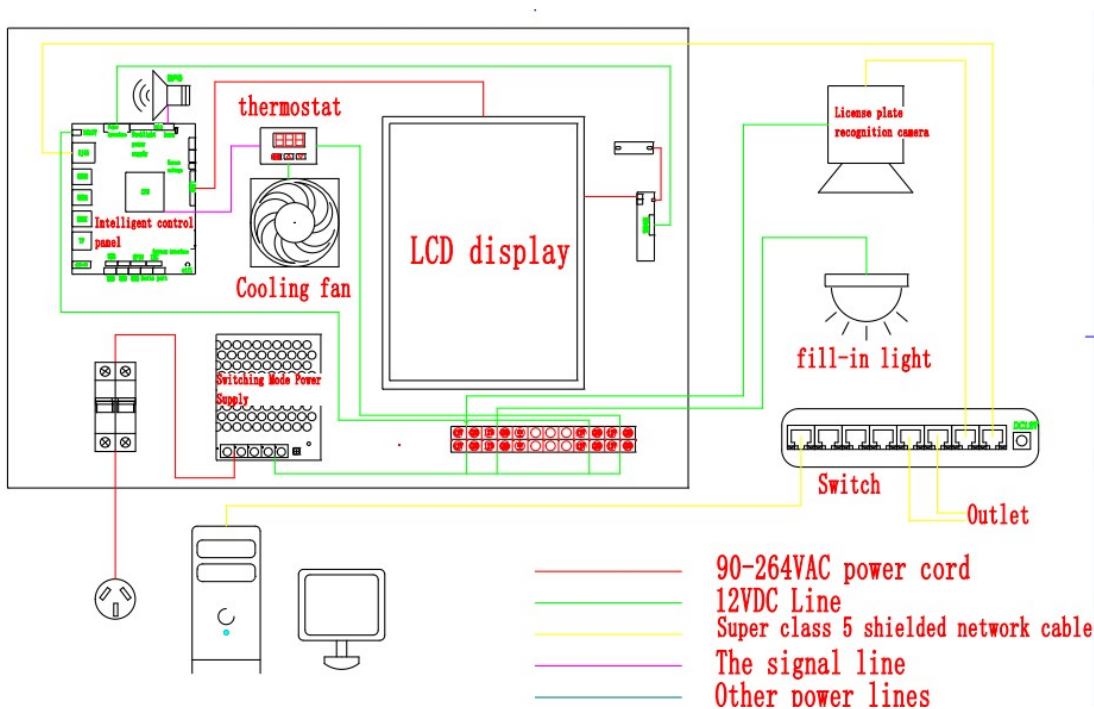
1.1: Software Prepare working

1.1.1. Preparation tools: a U disk above 8G, a Windows7/Windows10 computer, and a parking lot software dongle.

1.1.2. Software tools: clvds_setup_2.0.21.0315 installation package, a set of yufei parking intelligent parking software

1.1.3. System requirements: Windows7/Windows10 64/32-bit operating system, I3 third-generation CPU or above, a disk above 500G, 10/100M adaptive network port, 4GB or above memory. More than 100M LAN network environment, more than one logical disk. The logical disk partition shall not be less than 100G.

1.2: Hardware wiring diagram



Please Connect the AC power and network cables according to the above wiring diagram, and connect the import and export network cables to the switch.

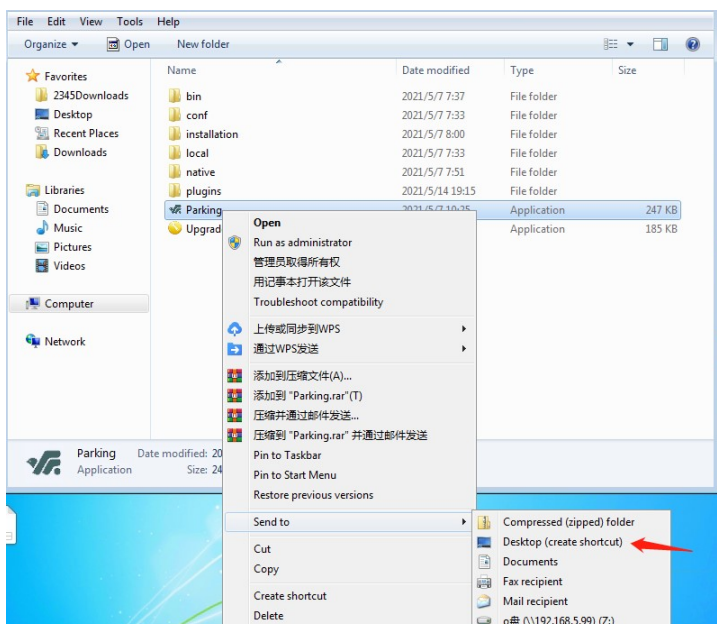
Chapter Two: Installation of Yufei

2.1: The installation of Yufei

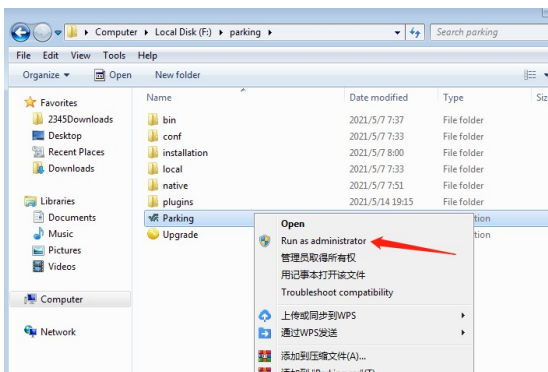
2.1.1 Decompress **parking** to the logical disk (Reminder: the path of decompression must use a pure English path)



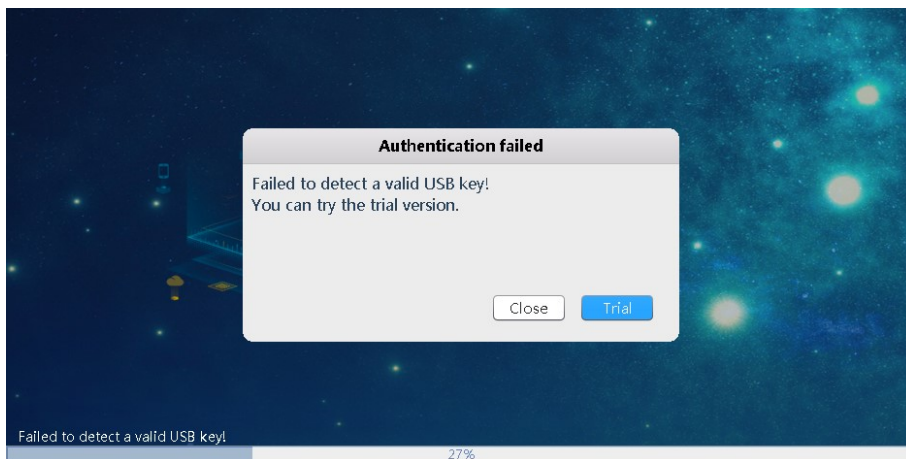
2.1.2 After decompression is complete, enter the corresponding logical disk. Open the **parking** folder, select **Parking.exe** and right-click **Send to Desktop** to send to the desktop shortcut.



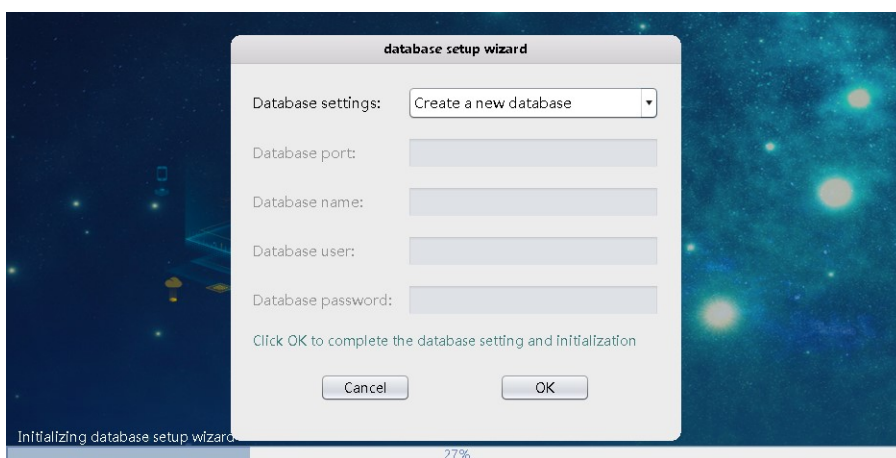
2.1.3 The mouse right click **Run as administrator**



2.1.4 Prompt to insert the dongle, after inserting the dongle into the USB port of the computer motherboard, click **trial** to enter



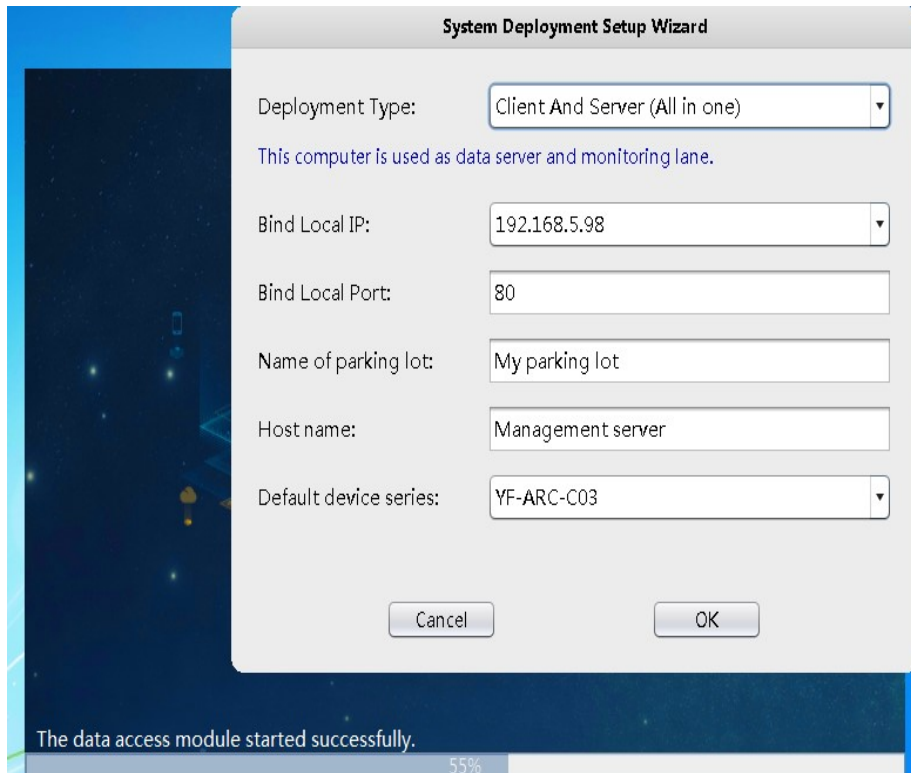
2.1.5 Click OK to install the database, the system will automatically complete the installation and deployment of the database



PS: If the intermediate system detects the lack of plug-ins, the system will automatically

pop up the plug-ins that need to be installed, click Next to complete the plug-in installation.

2.1.6 After the system is automatically deployed, the parking lot information box will pop up



2.1.6.1 If one computer controls all channels, select **client and server(all in one)**

2.1.6.2 Select the server according to the LAN segment IP

2.1.6.3 The system defaults to port 80, if the port is occupied, you can enter port 8899

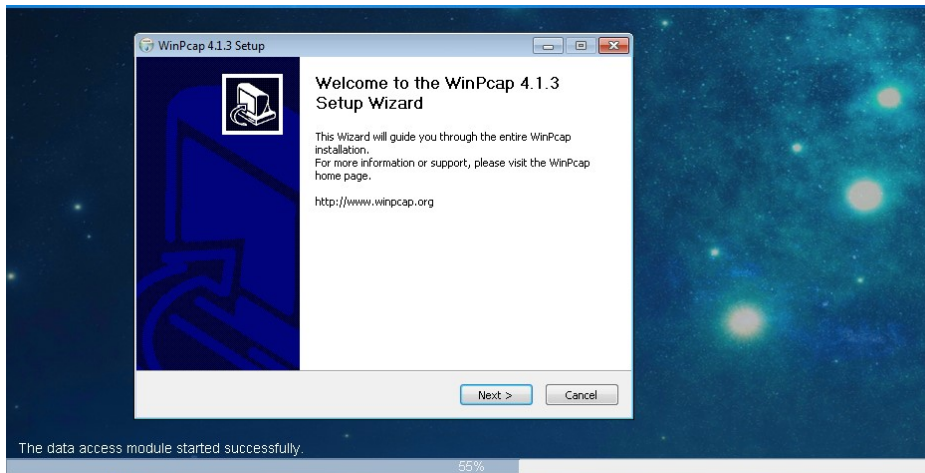
2.1.6.4 Fill in the name of the parking lot

2.1.6.5 Choose to change the server name of the host (generally choose the default)

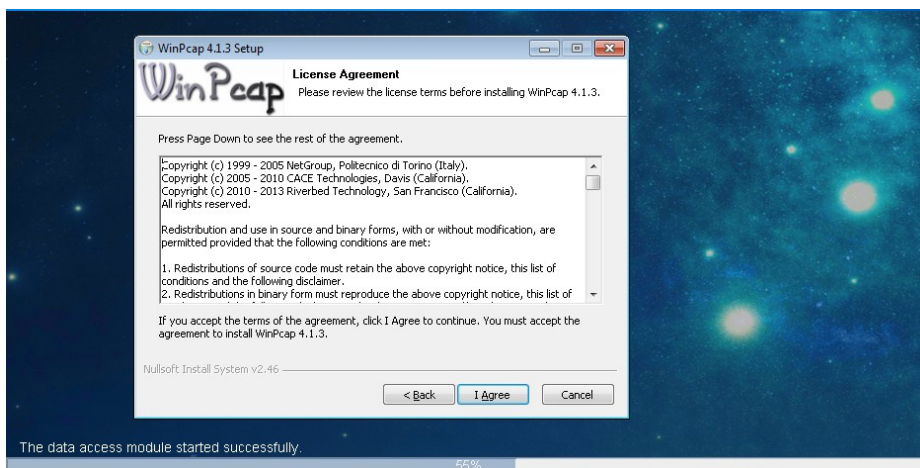
2.1.6.6 For device selection, please consult your service provider to obtain the device driver number.

2.1.7 After clicking OK, you are prompted to install the **winpcap** plugin

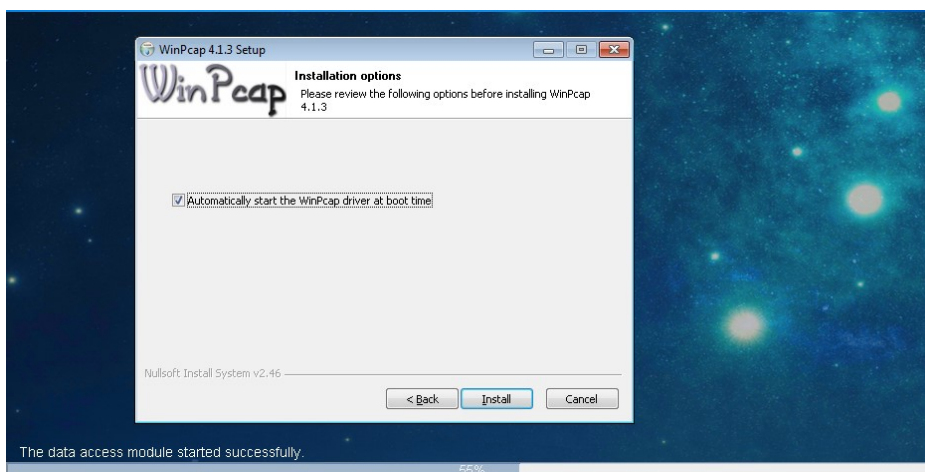
2.1.8 Click **next** to enter the plug-in installation interface



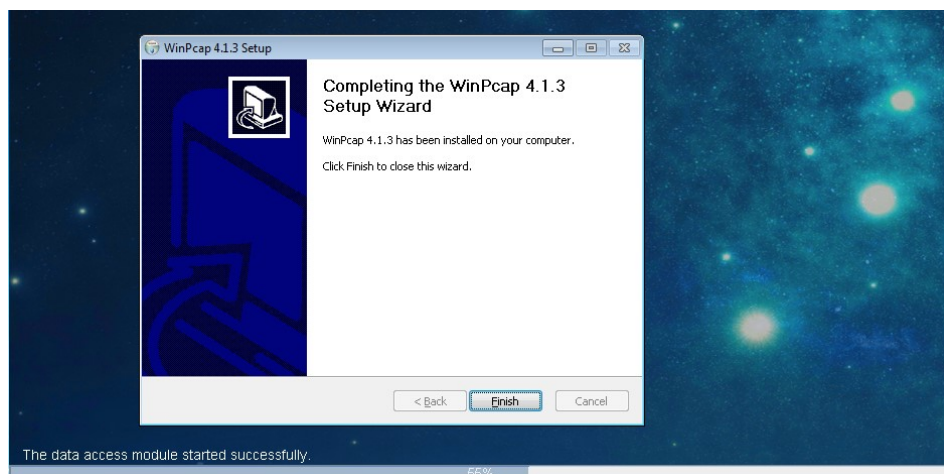
2.1.9 Select **I Agree** for the next installation



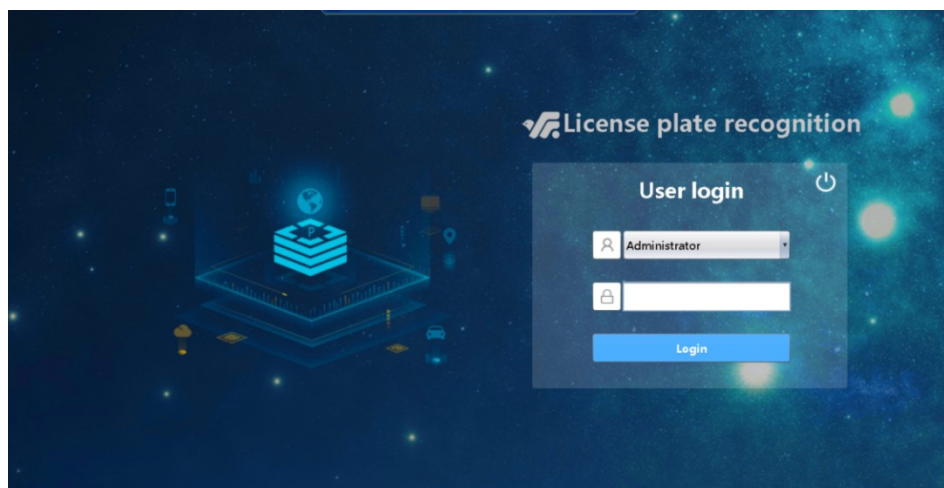
2.1.10 Click **Install** to enter the installation progress bar



2.1.11 Click Finish to deploy the software and enter the yufei login interface



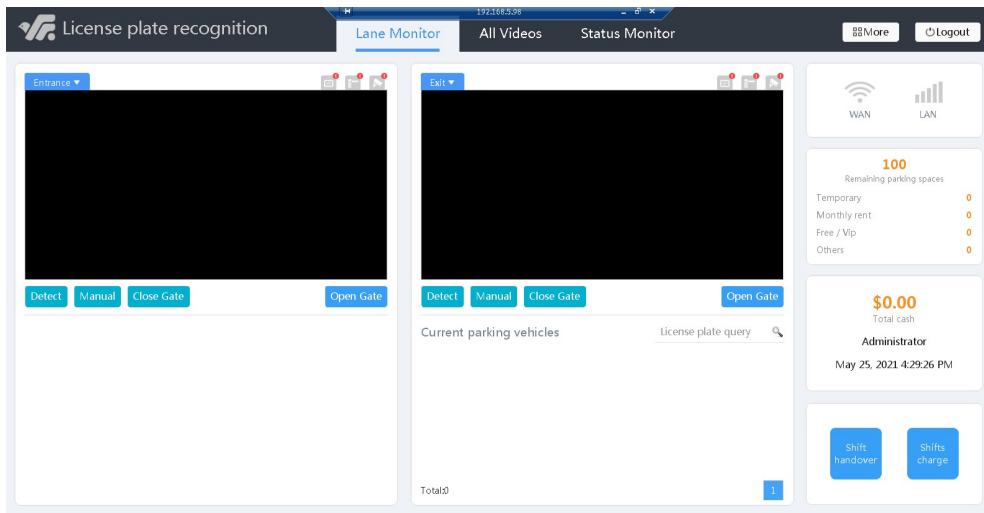
2.1.12 Device driver loading



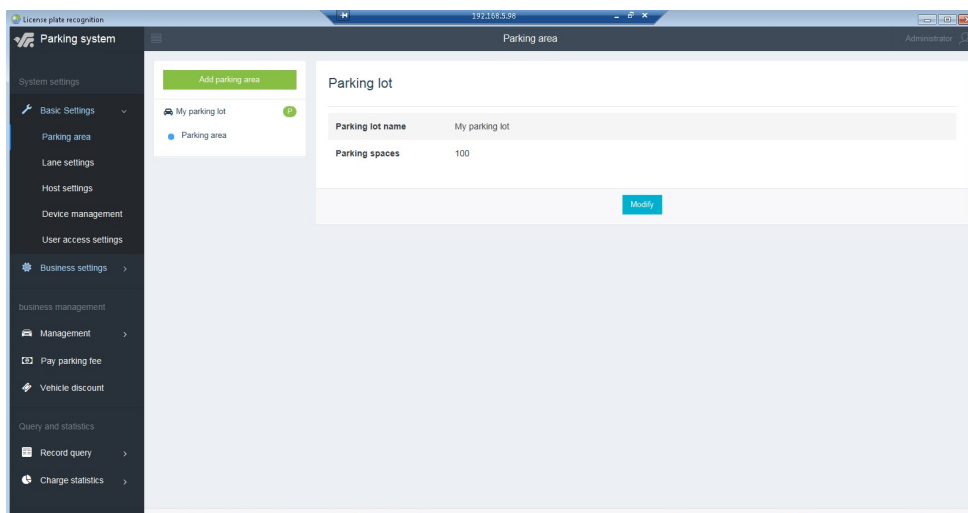
2.2:Administrator Setup of Yufei

2.2.1. Enter the default Administrator password as **123456** to enter the main page

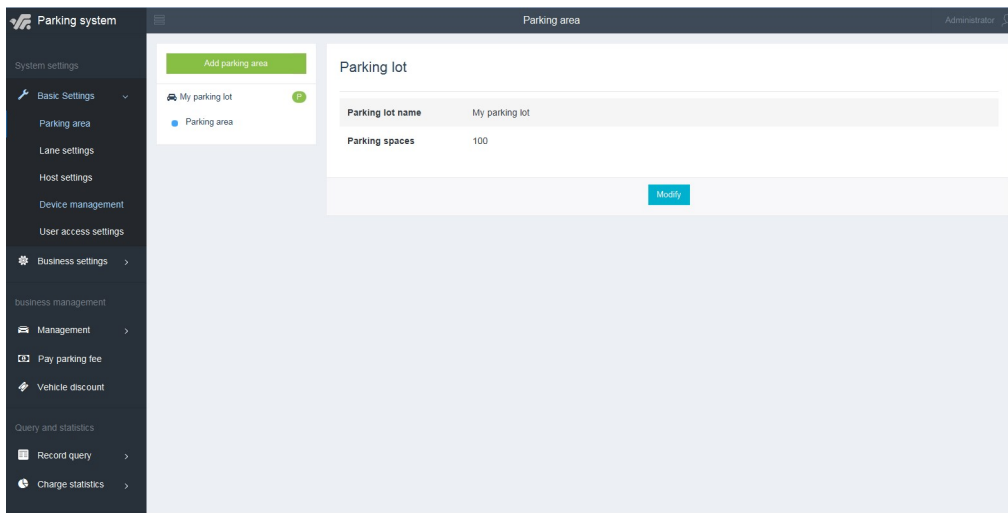
2.2.2.Click **MORE**, select **login management system** to enter the background configuration.



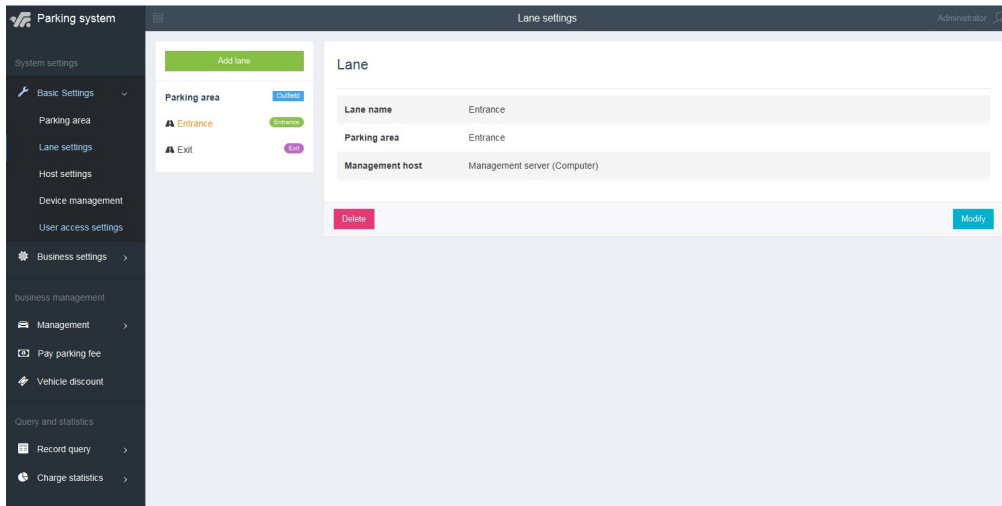
2.2.3 Set the area of the parking lot in the **parking area**. Only areas that are not interoperable or have a parent-child relationship need to be set



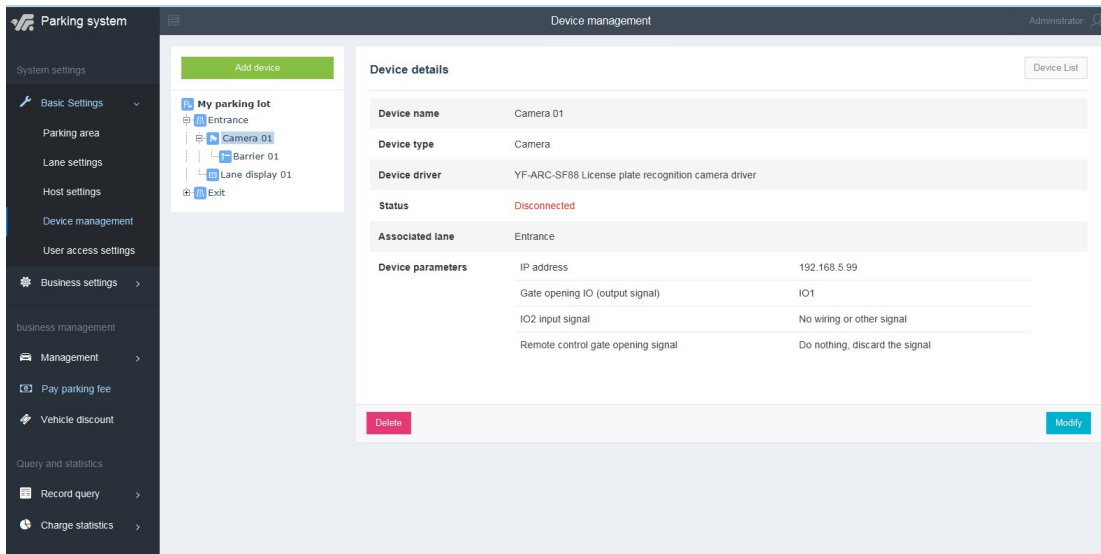
2.2.4 Set the yard channel in **lane settings**, and add new channels according to the actual situation.



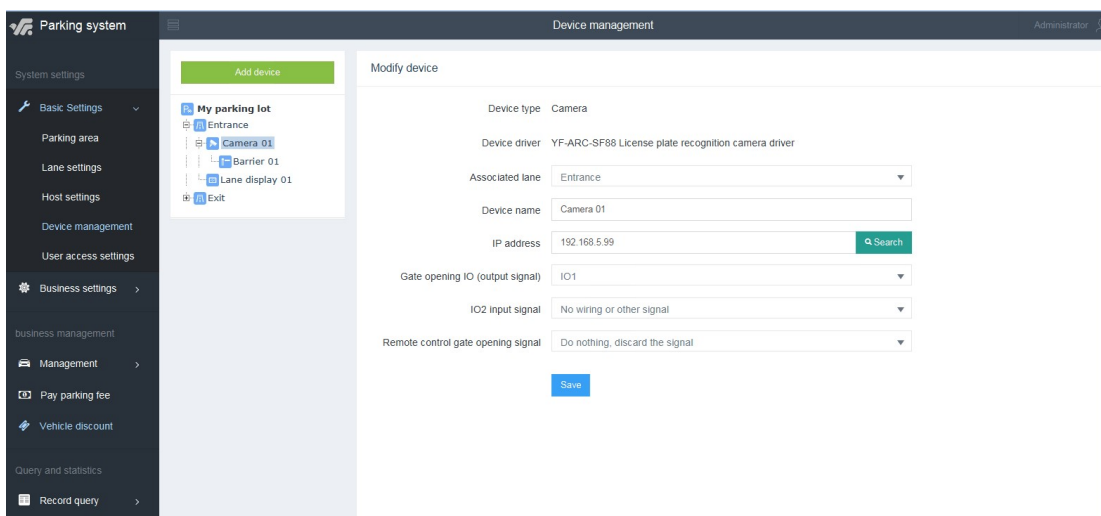
2.2.5 Binding the device in **device management**



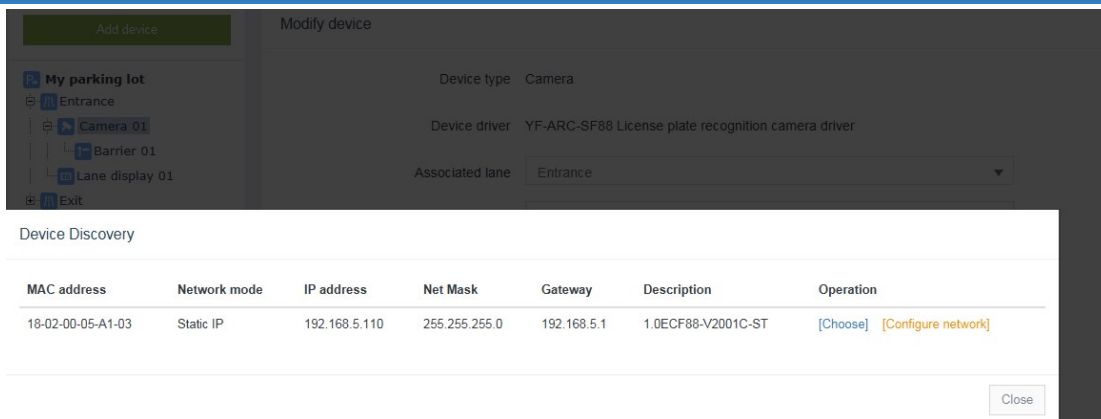
2.2.5.1 Click **camera 01** in **entrance** and click **modify** to enter the device driver modification interface



2.2.5.2 Click **search** to search for devices in the local area network, and the hardware IP of the changed device appears



2.2.5.3 Select a device, click **Configure network** to enter the device IP setting interface



2.2.5.4 Modify the camera IP for the same network segment of the computer and click **save** to complete the IP settings of the camera and return to the device IP selection page, Select the device corresponding to the channel and click **choose** to confirm, then click **save** to save

Configure network

☒ Static IP

MAC address:

IP address*:

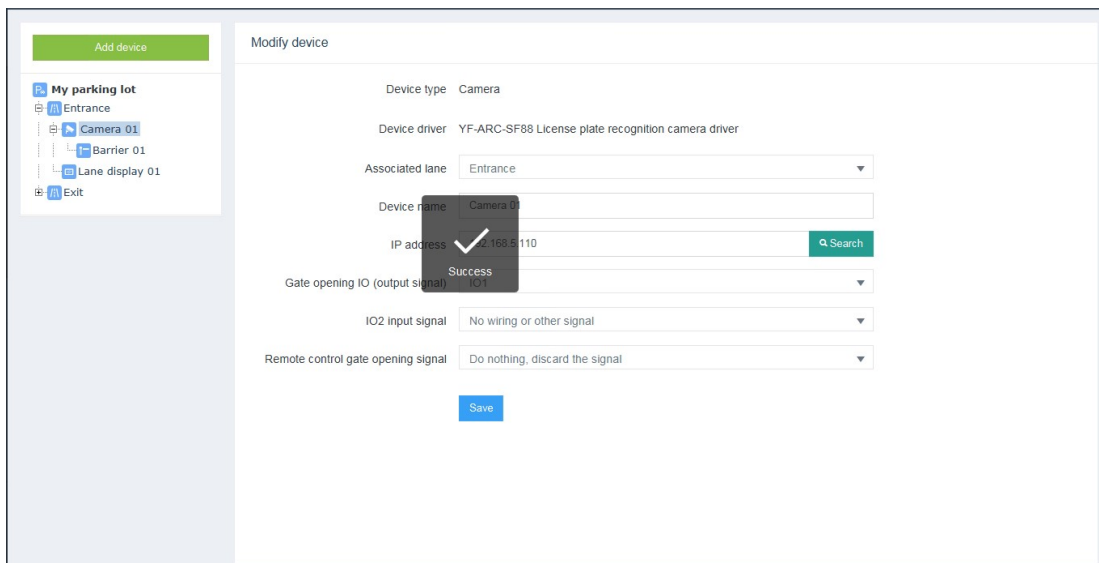
Net Mask*:

Gateway*:

Camera login user:

Camera login password:

2.2.5.5 In the same way, bind the **lane display 01** of the channel with the IP address obtained by referring to the display



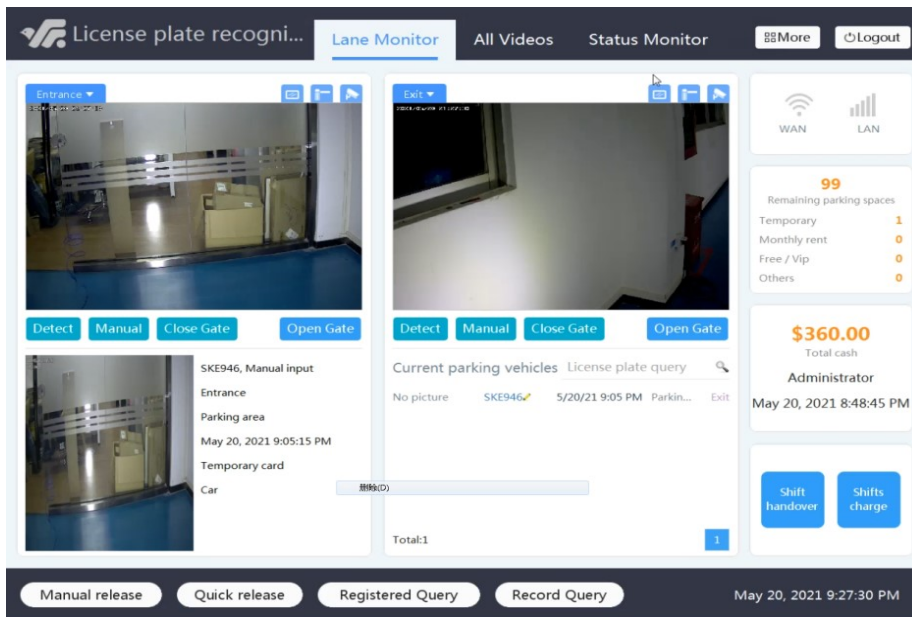
2.2.5.6 Use the same method to bind other entrance and exit devices

2.2.5.7 After finishing, click the **device management** in **basic settings** and all the device status should be connected. If there is a disconnected status, please check the LAN network connection.

Chapter Three:Yufei Operation Guide

3.1:Basic Button settings of Yufei.

3.1.1 After completing the above settings, return to the main interface of the Yufei and the real-time channel video will be displayed.



3.1.2 **Lane monitor** can be used to manage lanes, and the interface can be used for some shifts and quick release

3.1.2.1 **Detect** can manually trigger the recognition of the license plate of the current monitoring channel.

3.1.2.2 **Manual** can manually capture and release the unlicensed cars in the current monitoring channel.

3.1.2.3 **Close gate** can carry out the pole drop operation of the barrier gate of the current monitoring channel (requires the camera O2 interface and the pole gate wiring).

3.1.2.4 **Open gate** can operate the gate of the current monitoring channel.

3.1.2.5 **Manual release** can manually release unlicensed vehicles in all channels.

3.1.2.6 **Quick release** can release special vehicles on all channels.

3.1.2.7 **Registered query** can query the license plate numbers and expiration status of all monthly rental cars in the parking lot.

3.1.2.8 **Record query** can query the entry and exit records of all vehicles in the parking lot according to conditions.

3.1.2.9 **Shift handover** can handover the duty personnel in the morning and evening shifts.

3.1.2.10 **Shifts charge** can query the charge status of the staff in this class.

3.1.2.11 **Current parking vehicles** This area is the display area of the vehicles in the field.

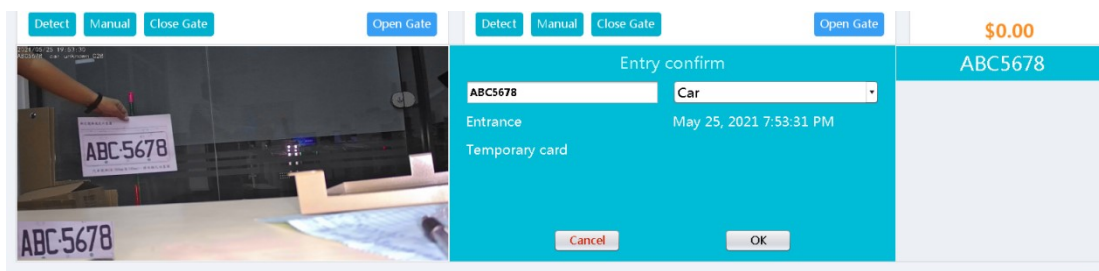
3.1.3 In **all videos**, you can view all the monitoring interfaces of the channels managed by the computer, the server can view all the monitoring interfaces, and the client can only watch the real-time monitoring of the channel managed by them.

3.1.4 You can view the online status of the device network in the **status monitor**.

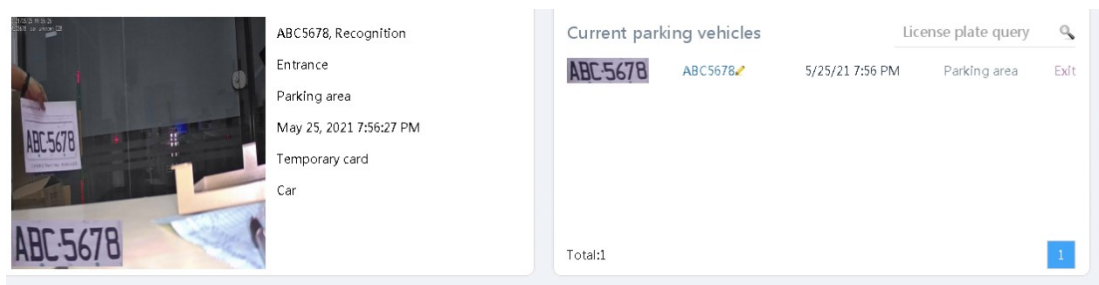
3.2 Basic Service setting of Yufei

3.2.1 In the **vehicle release policy** of the **system policy**, you can set a simple release strategy for the license plate.

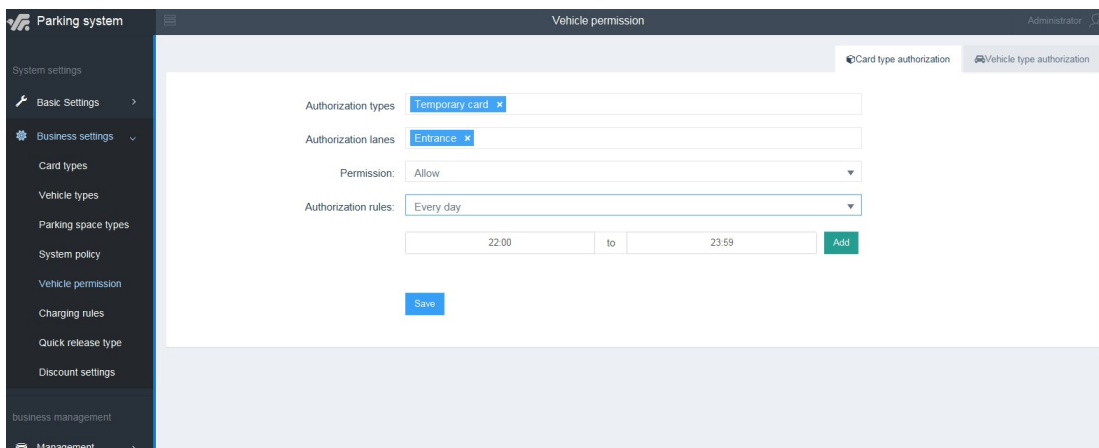
For example: Temporary vehicles need to be released manually, you need to select the corresponding entrance channel and vehicle model: **Vehicle release mode** to **manual confirmation**, and click **save** in the corresponding row after the setting is completed. After setting, all temporary vehicle types in the entrance lane will be in the lane monitor bullet box which means it need manual confirmation.



After clicking confirm, the vehicle can enter the parking lot.



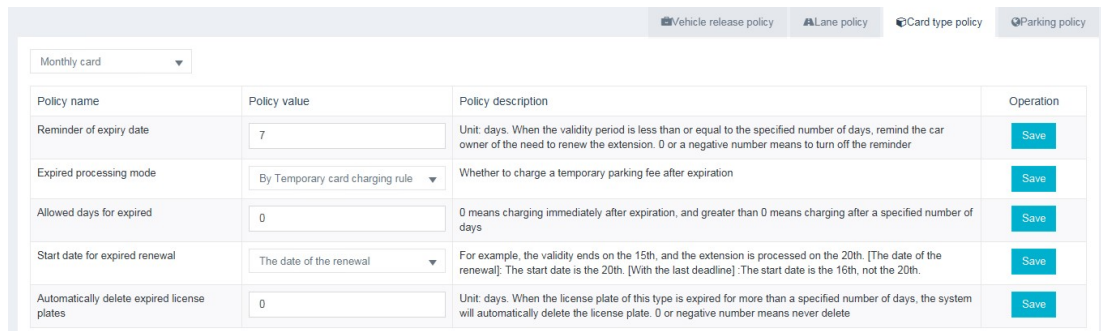
3.2.2 The basic policy of the channel can be set in the **lane policy** of the **system policy**. For example, after opening **Lane authorization**, you can set the channel in **vehicle permission** for certain periods of time to allow only specified vehicle types to enter.



3.2.3 In the **card type policy** of the **system policy**, you can set the policy settings for vehicle classification by card type.

For example, after the monthly rental car expires, the temporary car will be charged, and the **Expired processing mode** can be set to **by temporary card charging rule**, so that after the monthly rental car expires, the car will incur charges after entering the parking lot and

will be charged according to the temporary card type.



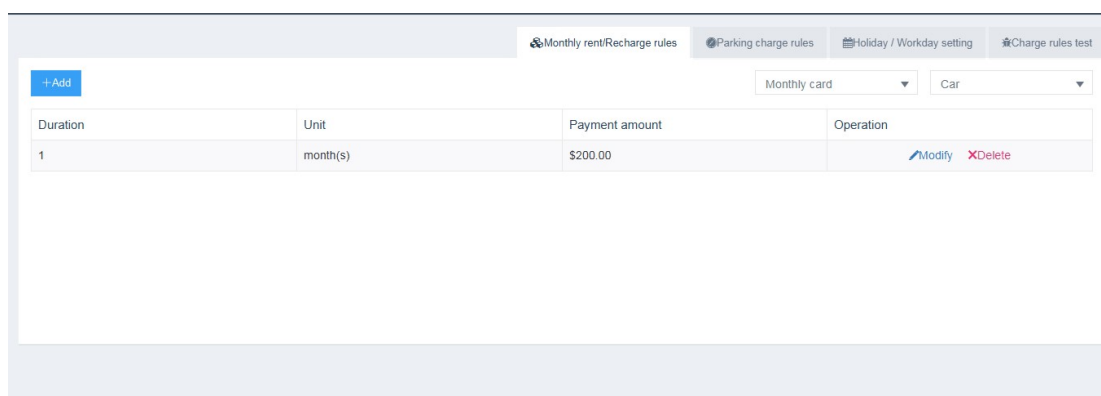
Policy name	Policy value	Policy description	Operation
Reminder of expiry date	7	Unit: days. When the validity period is less than or equal to the specified number of days, remind the car owner of the need to renew the extension. 0 or a negative number means to turn off the reminder	Save
Expired processing mode	By Temporary card charging rule	Whether to charge a temporary parking fee after expiration	Save
Allowed days for expired	0	0 means charging immediately after expiration, and greater than 0 means charging after a specified number of days	Save
Start date for expired renewal	The date of the renewal	For example, the validity ends on the 15th, and the extension is processed on the 20th [The date of the renewal]. The start date is the 20th. [With the last deadline]. The start date is the 16th, not the 20th.	Save
Automatically delete expired license plates	0	Unit: days. When the license plate of this type is expired for more than a specified number of days, the system will automatically delete the license plate. 0 or negative number means never delete	Save

3.2.4 The system configuration of the parking lot can be set in the parking policy of the system policy.

For example, after the **Maximum stay time** after **vehicle payment** is set to 30 minutes, the system will automatically release vehicles that leave within 30 minutes after the centralized payment. The Yufei will charge for the period exceeding 30 minutes after the centralized payment, and the owner needs to re-enter the toll office or the guard box pays the detention and parking fee.

3.2.5 In the **monthly rent/recharge rules** of the **charging rules**, you can set the charging standards for the car types.

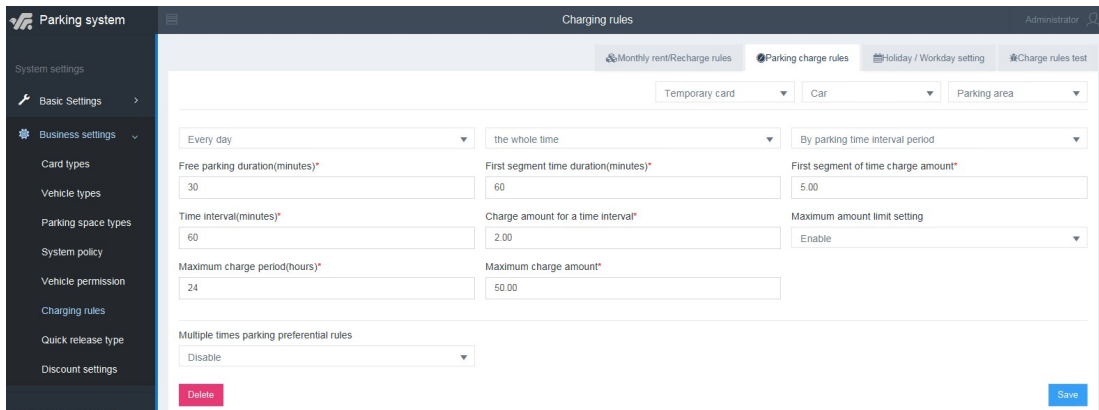
For example, a monthly car rental is charged USD200 per month, and you need to click **Add** to charge the vehicle type on a monthly basis.



Duration	Unit	Payment amount	Operation
1	month(s)	\$200.00	Modify Delete

3.2.6 In the **parking charge rules** of the **charging rules**, charging settings can be set for vehicles charged by the hour.

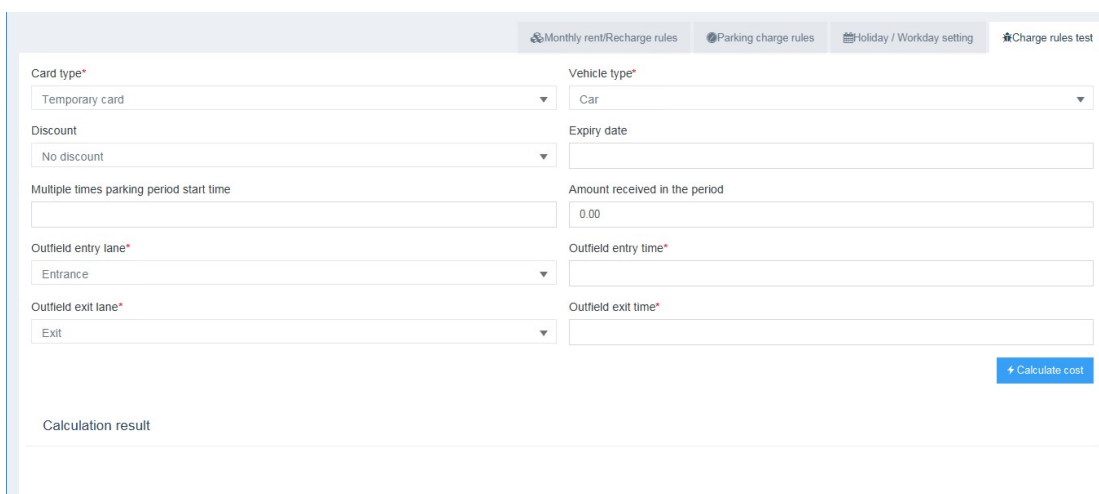
For example, 30 minutes is free. USD5 for the first hour, USD2 every 1 hour thereafter, up to 50 US dollars for 24 hours.



3.2.7 Set holidays in the **holiday/workday setting** of **charging rules**.

You need to set the holiday billing rules in the parking charge rules. The logic is that Saturdays and Sundays are holidays, and Mondays to Fridays are working days.

3.2.8 In the **charge rules test** of **charging rules**, you can perform a simulation test on your charging rule settings in **parking charge rules** to check whether your charging settings are wrong.



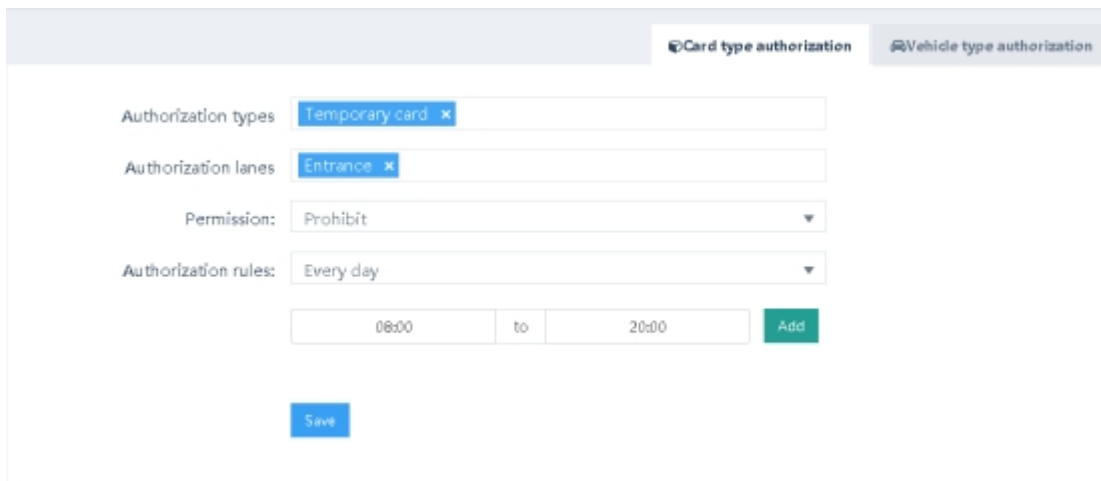
3.2.9 Access permission settings: This setting can restrict the passage of vehicles in and out of the time period.

3.2.9.1 Open channel authorization: Lane authorization in Lane policy under System policy can authorize the opening or closing of the channel. This permission can only be set when the vehicle is used to limit the time period. The default configuration of the system is Disable state.

3.2.9.2 After **Lane authorization** is turned on, you can set the passage according to the license plate type or vehicle type in the **vehicle permission**.

For example: the bar parking lot does not allow temporary vehicles to enter the parking lot during the day (8:00-20:00). In the **Lane policy** under **System policy**, Lane authorization of Entrance changes into the Enable state, and click the Save button to save.

Click the +Add button in the **Card type authorization** of **Vehicle permission** to configure as follows:

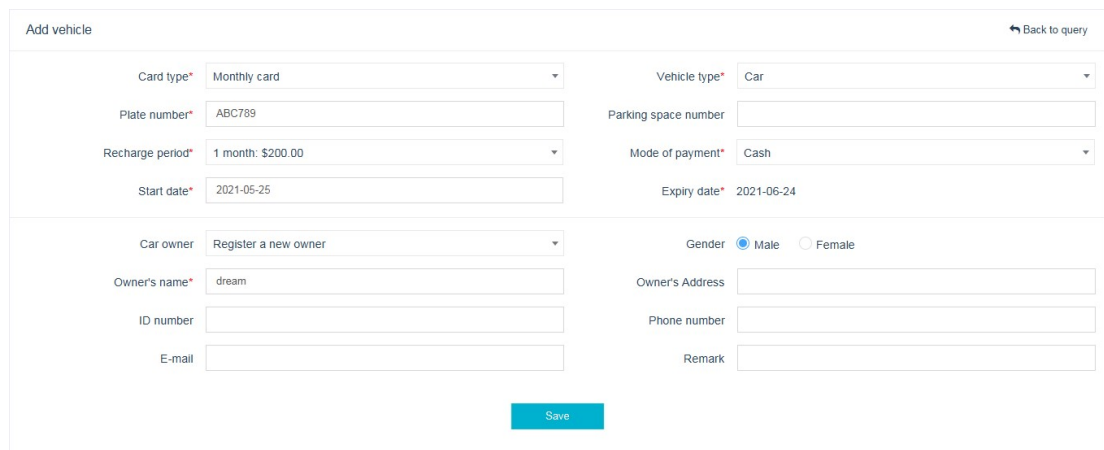


3.3 Vehicle management and payment discount

3.3.1 Vehicle and owner registration

3.3.1.1 In the **vehicle registration** in the **management**, you can add new vehicles, and set the charging rules for the newly added vehicle types to charge.

For example, add a new monthly rental license plate named ABC789 of the owner of Dream. After charging the monthly rental fee, click **add vehicle** to register.

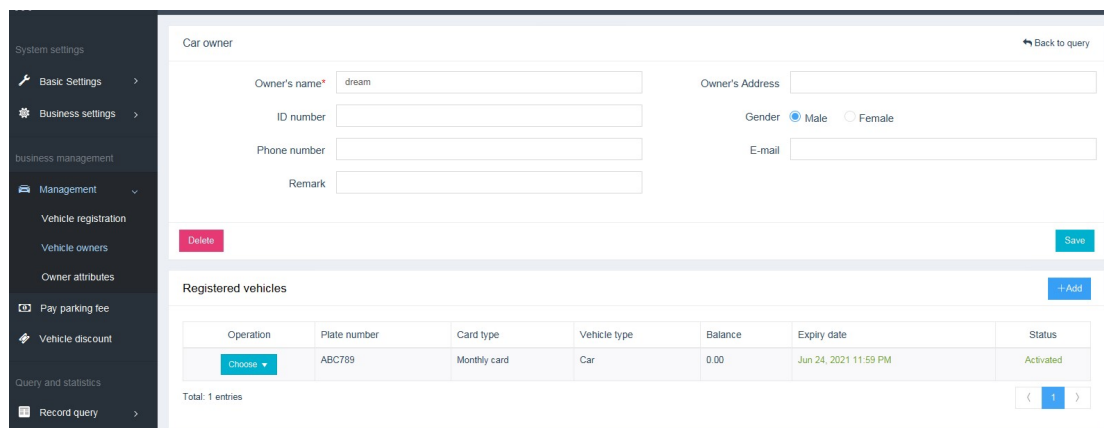


The 'Add vehicle' form contains the following fields:

- Card type*: Monthly card (dropdown)
- Vehicle type*: Car (dropdown)
- Plate number*: ABC789 (text input)
- Parking space number (text input)
- Recharge period*: 1 month: \$200.00 (dropdown)
- Mode of payment*: Cash (dropdown)
- Start date*: 2021-05-25 (text input)
- Expiry date*: 2021-06-24 (text input)
- Car owner: Register a new owner (dropdown)
- Gender: ☒ Male ☐ Female (radio buttons)
- Owner's name*: dream (text input)
- Owner's Address (text input)
- ID number (text input)
- Phone number (text input)
- E-mail (text input)
- Remark (text input)
- Save (button)

3.3.1.2 In the **vehicle owners** of **management**, you can manage the registered owners, and you can add vehicles to the owners on this page.

For example, if the owner of Dream have two cars and the license plate number of the other car is SKE946, you need to select the owner's name and enter the owner information page.



The 'Car owner' page includes a sidebar with navigation options: System settings, Basic Settings, Business settings, business management, Management, Vehicle registration, Vehicle owners, Owner attributes, Pay parking fee, Vehicle discount, Query and statistics, and Record query.

The main content area shows the 'Car owner' form with fields for Owner's name, ID number, Phone number, Remark, Owner's Address, Gender, and E-mail. Below the form is a 'Registered vehicles' table:

Operation	Plate number	Card type	Vehicle type	Balance	Expiry date	Status
Choose	ABC789	Monthly card	Car	0.00	Jun 24, 2021 11:59 PM	Activated

Total: 1 entries

3.3.1.3 Click +ADD to enter the new vehicle interface, fill in the corresponding

information and save.

Car owner
Back to query

Owner's name* dream

ID number

Phone number

Remark

Owner's Address

Gender
☒ Male
☐ Female

E-mail

Delete
Save

Registered vehicles

Card type* Monthly card

Plate number*

Recharge period* 1 month: \$200.00

Start date* 2021-05-25

Vehicle type* Car

Parking space number

Mode of payment* Cash

Expiry date* 2021-06-24

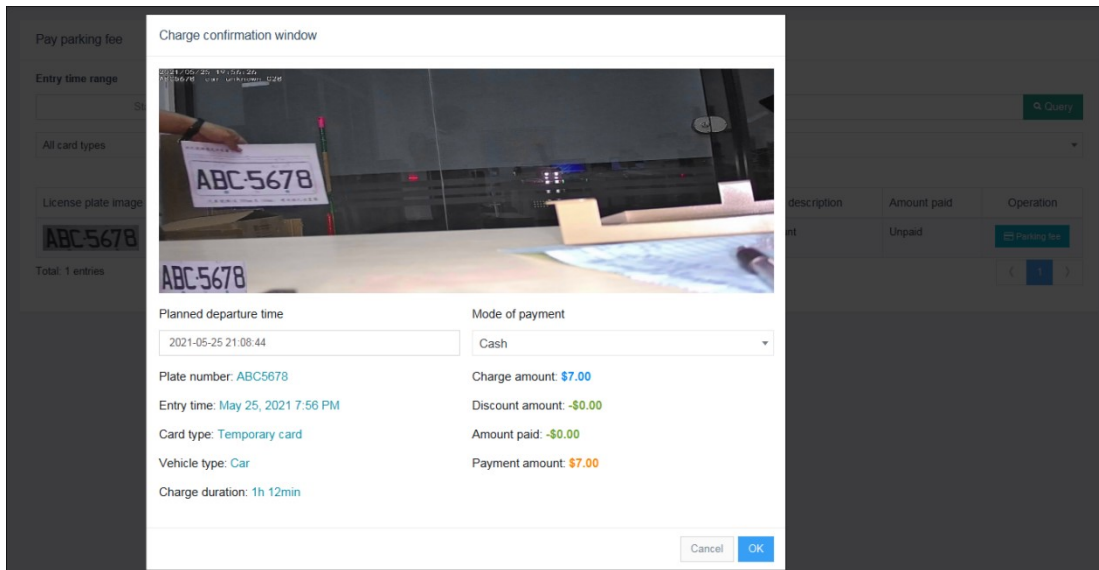
Cancel
Save

3.3.2 Vehicle payment

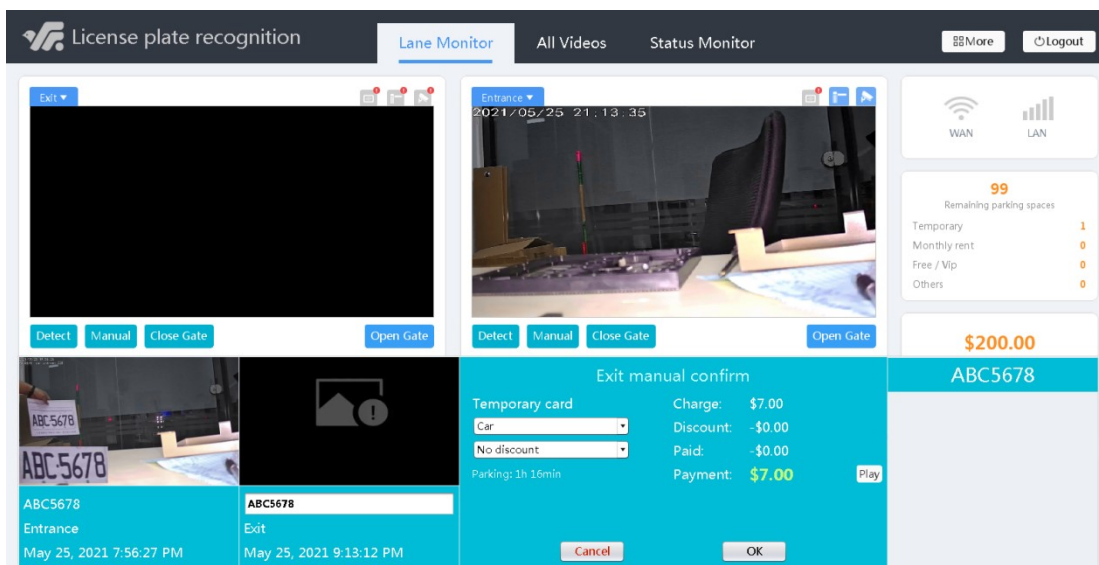
Fees incurred after the vehicle entering the parking lot can be paid in two ways.

3.3.2.1 Pay the fee first and then release

The vehicle pays at the management office before leaving the parking lot. When the vehicle wants to leaving the parking lot, the owner can check the fee at the management office. After the administrator enters the **pay parking fee** to query the vehicle charging information and selects the estimated departure time, the system will automatically generate the billing information. After the car owner pays the fee through POS or cash, the administrator clicks the confirmation button, and the car can be automatically identified and exited within the set time.



3.3.2.2 Pay the fee at the guard post. After the owner's vehicle enters and exits the identification area, Yufei will automatically pop up the billing result. After the administrator charges, he can click the OK button to release.



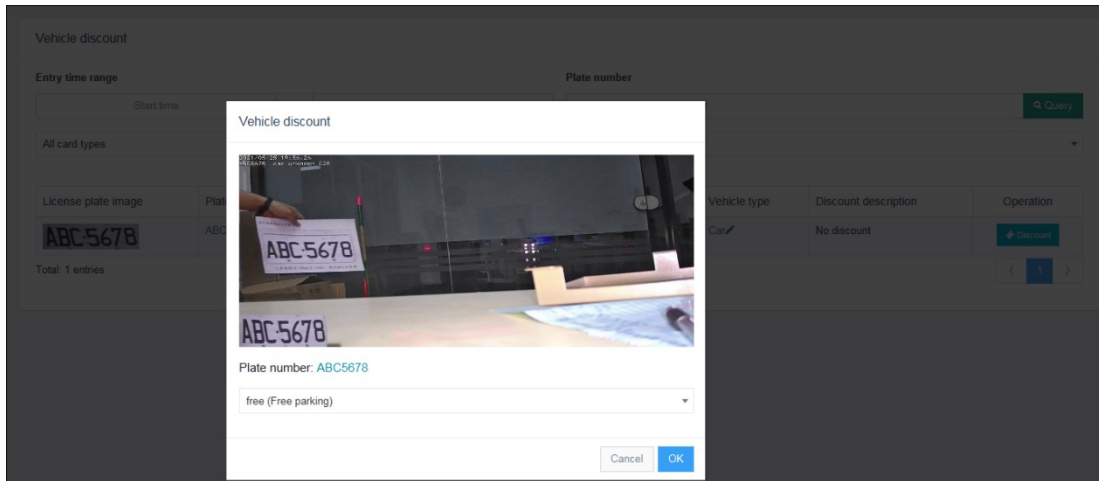
3.3.3 Discounted vehicles

When there is a vehicle in the parking lot for consumption, the vehicle needs to be discounted or exempted, and the discount rules need to be set in the **discount settings** of the **business settings** in advance, and the vehicle can find the administrator or the guard

post before leaving the field for discount processing.

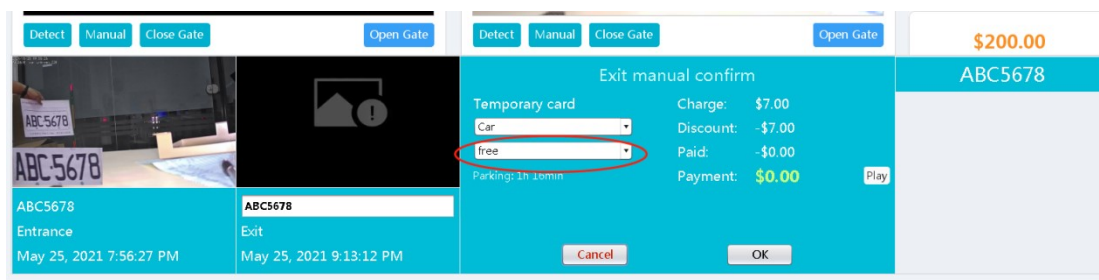
3.3.3.1 On-site discounts.

After finding the vehicle according to the conditions, select **discount** for discount at **vehicle discount**.



3.3.3.2 Discount at the exit.

When the vehicle enters the exit identification zone, the attendant confirms that the owner chooses the discount method after making purchases in the parking lot, and the owner pays the remaining parking fee, then the attendant clicks OK to release.



3.4: Record query

In **record query**, you can query vehicle access records and identify records and log files according to conditions.

License plate recognition

License plate recognition log

Recognition time range: 2021-05-25 00:00:00 to 2021-05-25 21:24:18

Plate number: Enter any character to query

All hosts: All lanes

All cameras: [Query](#)

License plate image	Plate number	Recognition time	Lane	Camera IP	Host	Recognition mode	Other info
	ABC5678	May 25, 2021 7:56:27 PM	Entrance	[192.168.5.110] Camera 01	Management server	Video trigger	Confidence: 28.0, Front and rear, car
	ABC5678	May 25, 2021 7:53:31 PM	Entrance	[192.168.5.110] Camera 01	Management server	Video trigger	Confidence: 28.0, Front and rear, car

Total: 2 entries

3.5: Charge query

The payment status can be inquired and summarized in charge statistics.

Parking system

Charge report

Statistics category

Statistics category: ☐ Parking fee ☐ Monthly fee ☐ Recharge fee

Card type: ☐ Temporary card ☐ Monthly card ☐ Recharge card ☐ Free card

Vehicle type: ☐ Car ☐ Truck ☐ Bus

Payment method: ☐ Cash ☐ Debit card ☐ Credit Card ☐ Electronic wallet ☐ Other

Statistical results

Statistics by day: 2021 - May - 25 to 25

day(s)/Category	Total
25	200.00
Total	200.00