

Guangzhou Micron Vending Technology Co., Ltd.

USER MANUAL-2025

Al visual smart fridge









Machine functions and manual contents will be upgraded and updated without prior notice. The actual machine shall prevail. You can download the latest version user manual from our company websites.



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Part I: Brief introduction - specification

Currently, we have 2 models of AI visual smart fridges: single-door, and double-door. We developed a "**Smart fridge" App** based on Android OS Version 11, and installed it on each machine, which will show the product image/name/price on the machine screen to the users. You will find it on the home page of the machine screen.

※ 21.5" Touch screen

- X Internet: 5G WIFI, 4G SIM Card, LAN
- ※ Android OS 11
- **X** ROM 16G / RAM 2G
- ※ No. of goods shelves: 6 floors
- X Technology: Al algorithm(Cameras)
- ※ Lock: Electrical lock
- 2-Layer tempered glass door
- 24V Electric door defogging
- ※ LED Lighting stripes
- X Dimension: W68*D68*H199cm





- **※ 21.5" Touch screen**
- **X** Internet: 5G WIFI, 4G SIM Card, LAN
- ※ Android OS 11
- **X** ROM 16G / RAM 2G
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- 24V Electric door defogging
- **X** LED Lighting stripes

Part I: Brief introduction - machine hardware



Custom-designed sticker-

Record transaction video

- Cameras x 2 single door
- Cameras x 4 double door

Door System

- > Tempered glass door
- Electric defogging

LED Lighting



21.5 Inch touch screen

- > Play advertisement
- > Display the products info.

Cooling System (on top)

- > Compressor on top of machine
- ➤ Fridges temperature:4~20°C
- ➤ Freezers temperature: -18 °C 🗡

Electrical locks

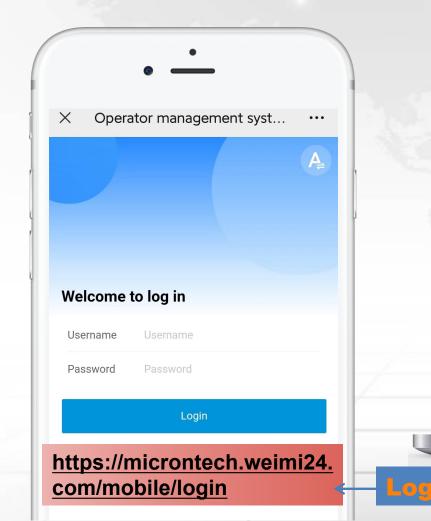
Goods trays

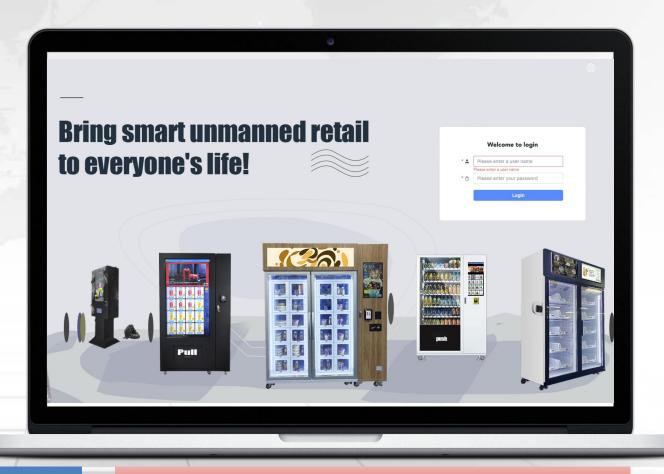
Strong & Flexible wheels



Part I: Brief introduction - management system

The back-end management system consists of 2 parts: <u>Mobile system</u>, and <u>Computer system</u>. Our sales representative will send you the <u>User name and Password</u> when the machine is ready. And you can create sub-accounts for your co-workers, or your customers [if you're re-seller].





https://microntech.weimi24.com/pc/#/login

Part I: Brief introduction - how does it work?

Grab



When the user tap the card to unlock the door, the cameras will start the recording, till the door is close and locked, cameras will stop recording. Then the video will be uploaded to the cloud server.

User shopping flow Video -- uploaded to the cloud server after door locked Algorithm -- recognize what products were taken; or let 01 02 the operators get involved Open manually in the case that algorithm can't recognize Payment -- will deduct the 03 04 amount from user's card, and

- Remark: (1) **Good network connection** is vital to make the machine work smoothly. Usually the whole processes will take a few minutes to settle the payment if the network connection is good;
- (2) The operator needs to handle some abnormal transactions manually, mainly due to **Unfriendly Behaviors from users**;

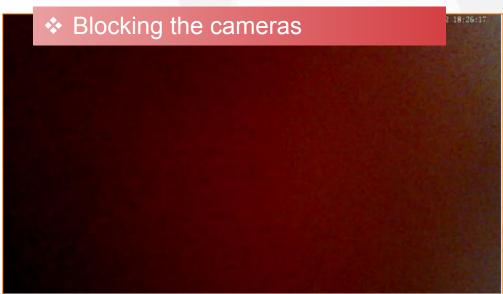
generate the E-receipt



Part I: Brief introduction - Unfriendly Behaviors

Some common Unfriendly Behaviors from users during operation





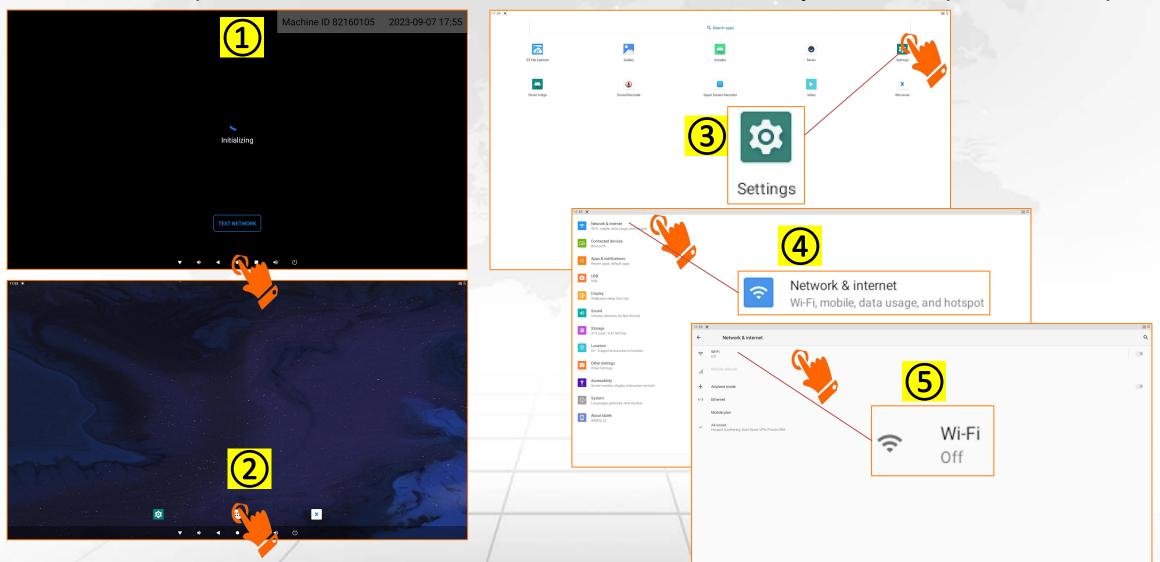






Part II: Fast set up --- Network connection

When you turn on a new machine for the 1st time, you may see the black screen as shown in below 1 Follow these steps to connect the machine to the available Wi-Fi or your mobile personal hotspot.



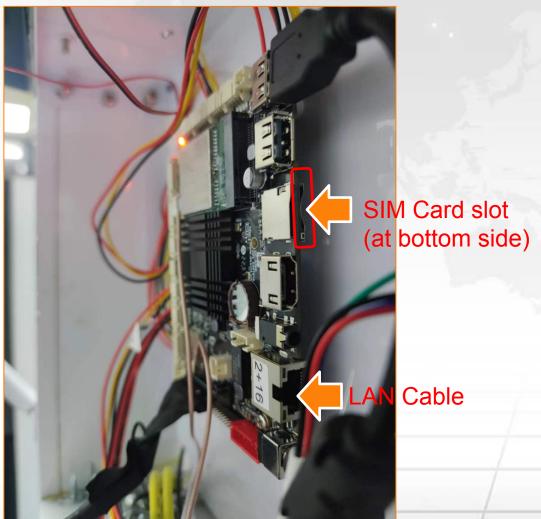
WEIMI

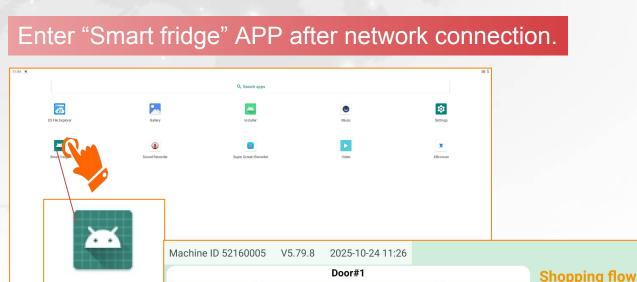
Part II: Fast set up --- Network connection

Besides, you can insert a data SIM card, or a LAN cable for network connection.

❖ Our suggestion: insert data SIM card(s) to a router, and use a LAN cable connect to android board.

Smart fridge





Coca-Cola

\$1.00 /

Tap card

Open door

Close door

Take product

SW Boerenge

Coke Zero Bo

√onster Blue

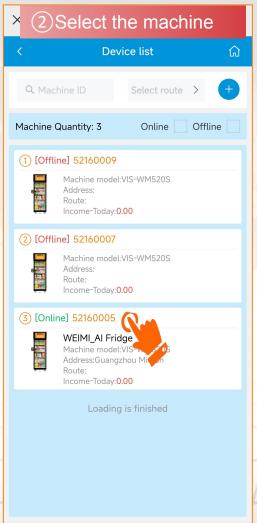


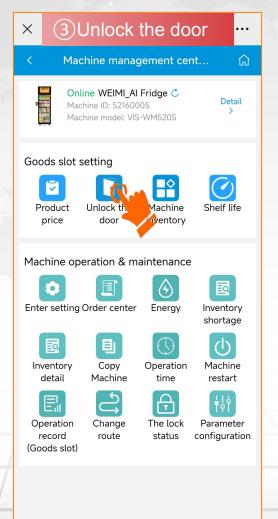
Part II: Fast set up --- Install the card reader

We put the card reader & kits inside the fridge, to save shipping cost and protect it from damage.

After connected network, you can open the door, take them out and install card reader to the machine.







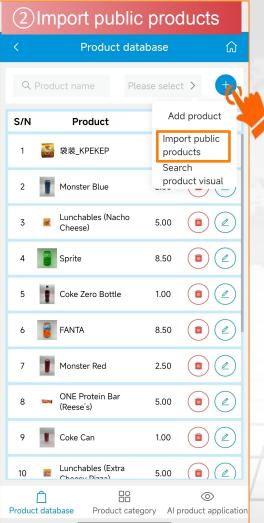


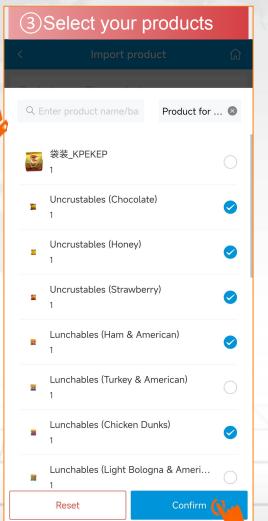


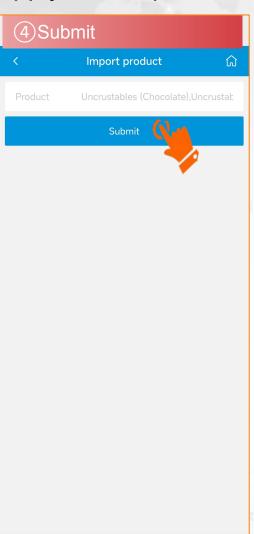
Part II: Fast set up --- Create product database

Login mobile system, you can "Import public products" if you plan to sell the same products. If your products are NOT found from public products, then you shall apply for the products.









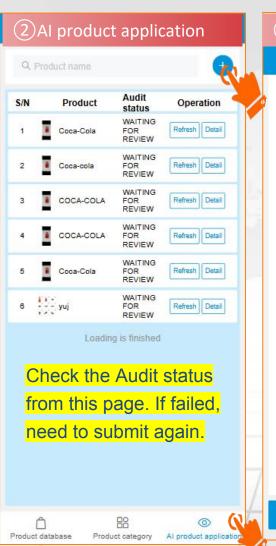


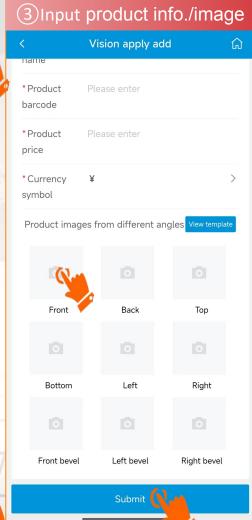
Part II: Fast set up --- Create product database

If your products are NOT found from public products, then you shall apply for the products.

For each product, you shall take 9 photos from different angles. Wait 3 working days after submit.







Remark: The background must be white and must not be cluttered with interfering objects.





Part II: Fast set up --- Create product database

Not all the products are suitable to be sold by AI smart fridge. In order to enhance product recognition, the product requirements are as follows:

Product Dimensions:

Length + Depth + Height ≥ 20cm Each side dimension (Length, Depth, Height) ≥ 3cm.



❖ Product Packaging:

- 1) Hard packaging is preferred over soft packaging.
- 2 Colored packaging is preferred over transparent packaging.
- 3 Standard products are preferred over non-standard products.

❖ Product modeling:

Product information must be organized, cleaned, and submitted for model training, so the modeling process will take a few working days.

- 1 If the number of SKUs submitted at one time no more than 30, it will take about 3 working days.
- If more than 30 SKUs are submitted at once, they will be queued and take a longer time.

WEIMI

Part II: Fast set up --- Create product database

If the Audit status is Failed, then you need to check the possible reasons, and submit again.

Reason of application rejection

* Product image

- ---mixed different product images, please do not upload multiple product images together;
- ---low quality images, the resolution shall be no less than 600px*600px;
- ---background is non-compliant, please use a plain white background in natural light (not with heavy shadow);
- ---the product is partially obscured, do not hold the product by hand while taking photos
- ---the key info. is not shown or not clear;
- ---do not include images of all the required angles;

* Product barcode

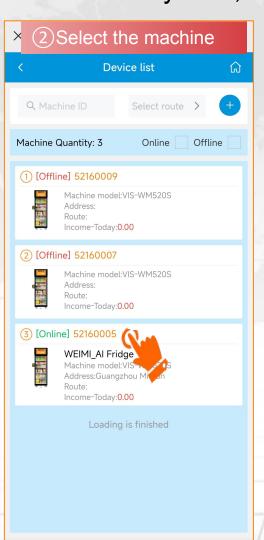
- ---wrong barcode
- ---does not match barcode on the image;
- ---for non-standard items, create your own barcode for modeling;
- * Others --- The product does not meet modeling standards.

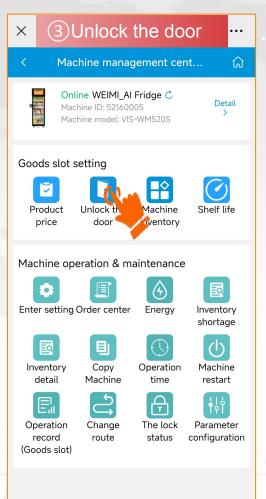


Part II: Fast set up --- fill products into shelves

Unlock the fridge door from mobile system, and put the products into the goods shelves.









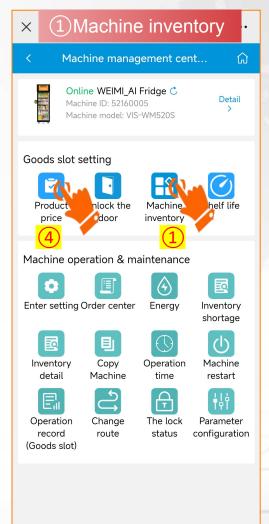
- Suggestion:
- 1. Put <u>smaller size</u> products closer to the camera;
- 2. Put **best-selling** products closer to the camera;
- 3. Each cabinet have 30~40 SKUs, no more than 70.
- 4. Do not fill products with **highly similar** packages into the same cabinet.

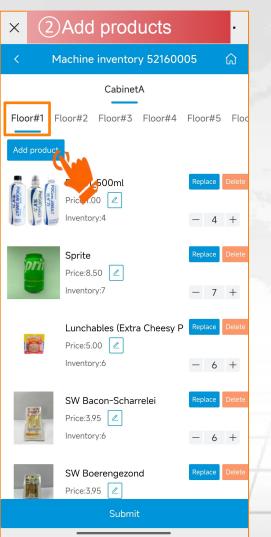


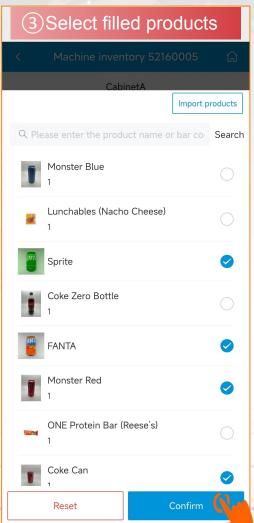
Part II: Fast set up --- set products/inventory/prices

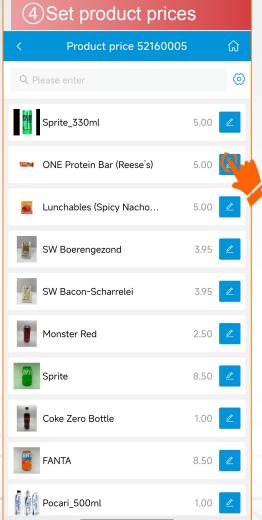
Click "Machine inventory" and select the products that you'd filled into the fridge, and set Quantities.

Click "Product price" to set the selling price of each product in this fridge.









Remark
For each product,
you can set price
different from the
price in the Product
database;

Same product, in different machines, the prices can be set to be different.

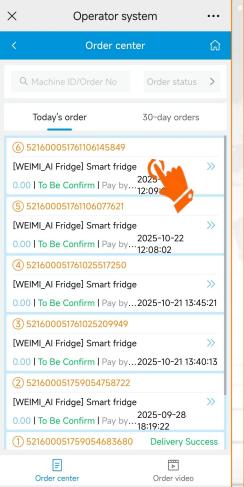


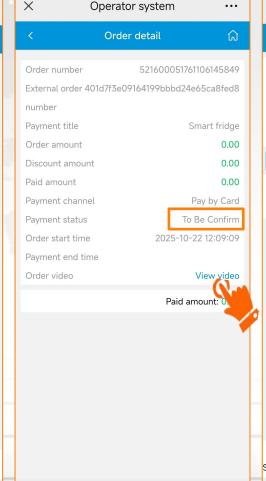
Part II: Fast set up --- Testing

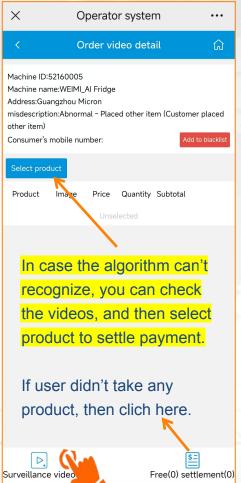


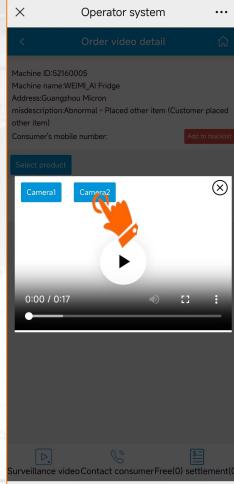
After the above-mentioned set up, you can buy from the machine, check whether the Card payment system is working properly or not, and check the order details from Mobile/PC system.











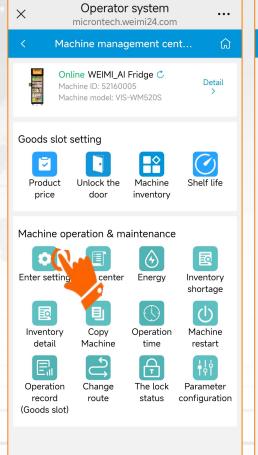


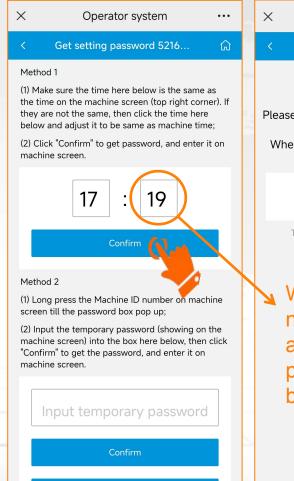
3.1 How to enter "Smart fridge" App setting on the machine?

Step 1: From the mobile system, generate the Dynamic Password (valid for no more than 5mins)







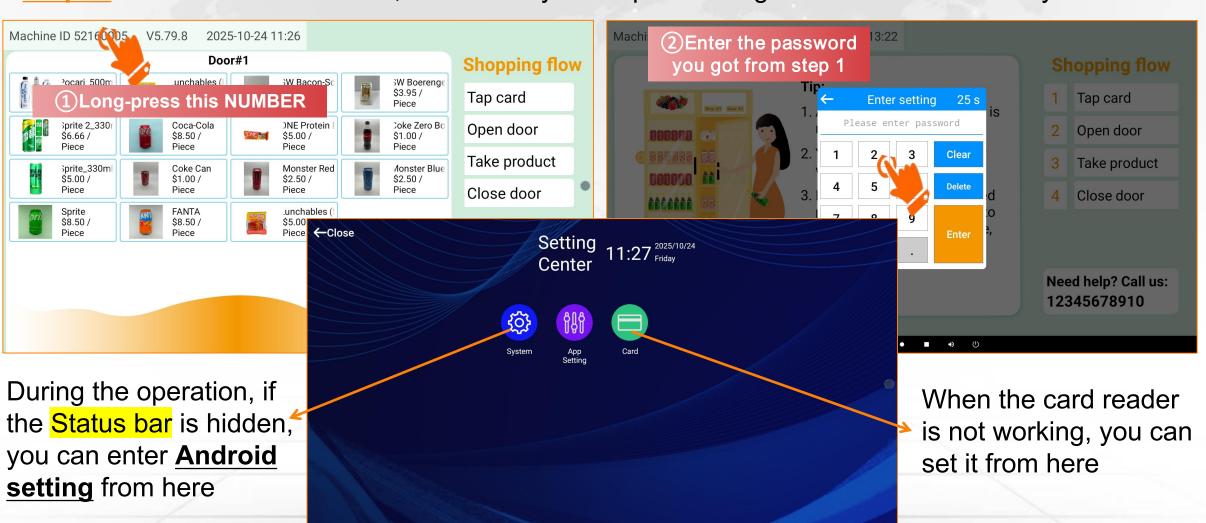






3.1 How to enter "Smart fridge" App setting on the machine?

Step 2: On the machine screen, enter the Dynamic password generated from mobile system.

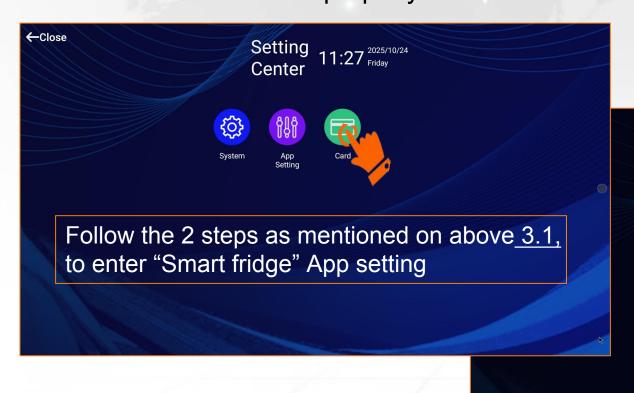




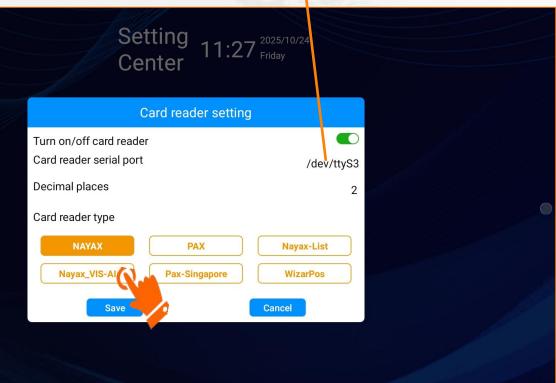


3.2 How to set BANK card reader?

If the machine installed with a NAYAX (or PAX) card reader, and it shows "Cash only", possibly, the card reader is not set properly.



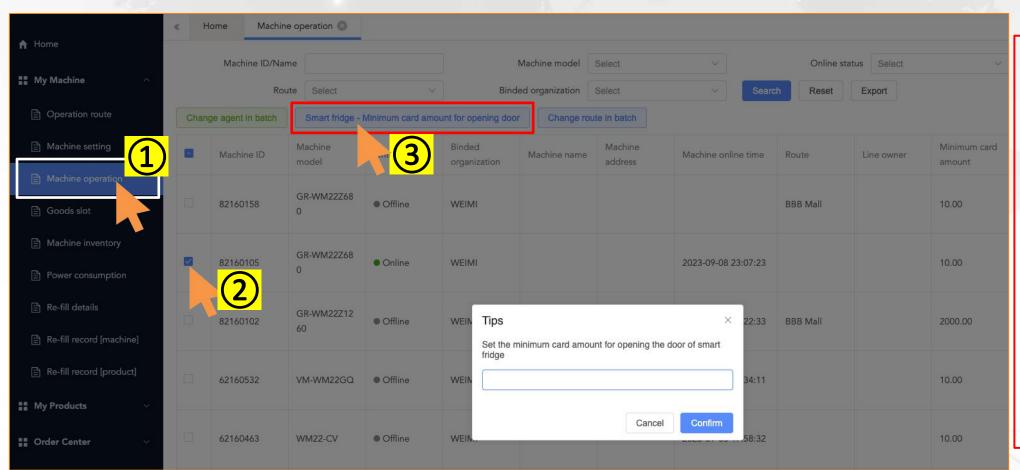
If you are not sure about which serial port is the card reader connecting to, please send a photo of the android board to our sales representative.





3.2 How to set IC/ID card reader?

If the machine installed with IC/ID membership card reader, not BANK cards reader. You can set the minimum card amount (balance) for opening the smart fridge.



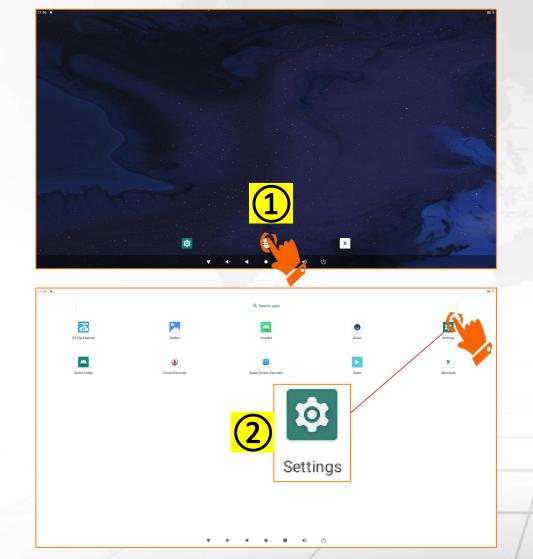
This is a very good solution for usage in offices, factories, clubs...

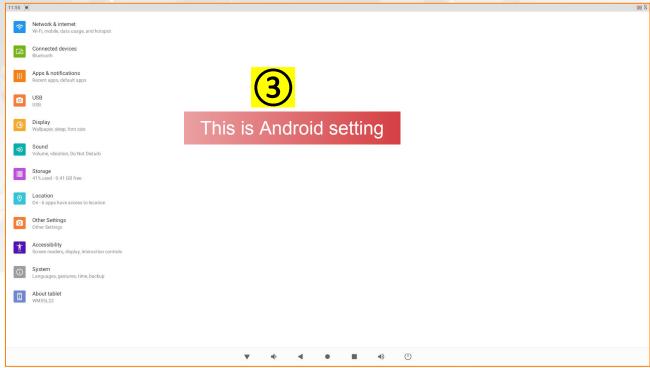
If your machine just install NAYAX card reader, you shall set the Preauthorization amount from the bank-end system of NAYAX.



3.3 How to enter Android setting?

If the Status bar is at the bottom, you can enter Android setting in this way.



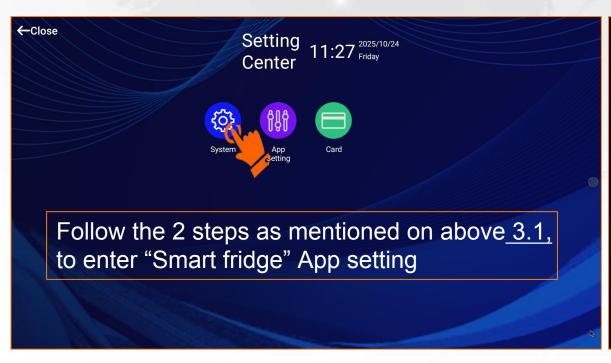


- **The "Smart fridge" App is developed based on Android, some basic settings can be done from here.
- *When you received the machine, suggest you enter this page to have a look what can be set from here.



3.3 How to enter Android setting?

During the operation, when the Status bar is hidden, you shall enter "Smart fridge" App setting first, and then click "System" ---> "More" to enter Android setting.



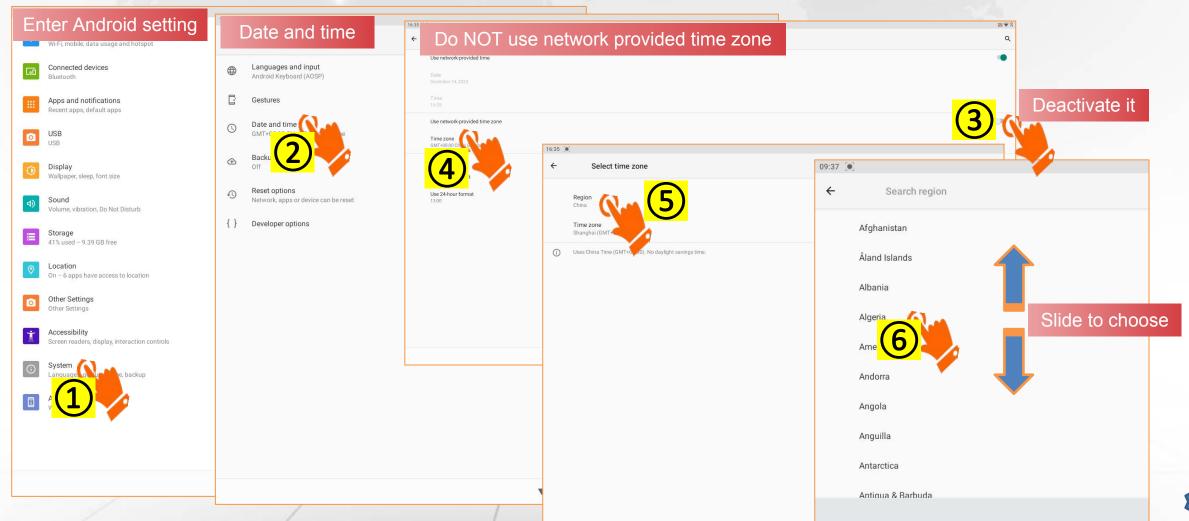




3.4 How to Sync the time when using Wifi?

When using SIM card, the time & time zone will be synchronized automatically.

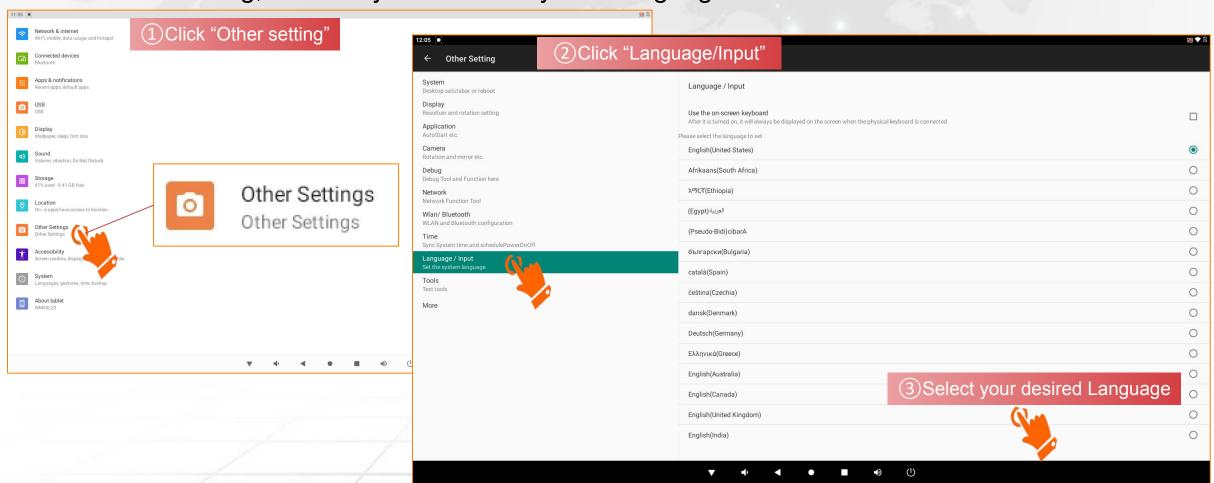
When using Wifi, if you find the time on screen does not match your actual time, then need to re-set it.





3.5 How to set the Android System Language?

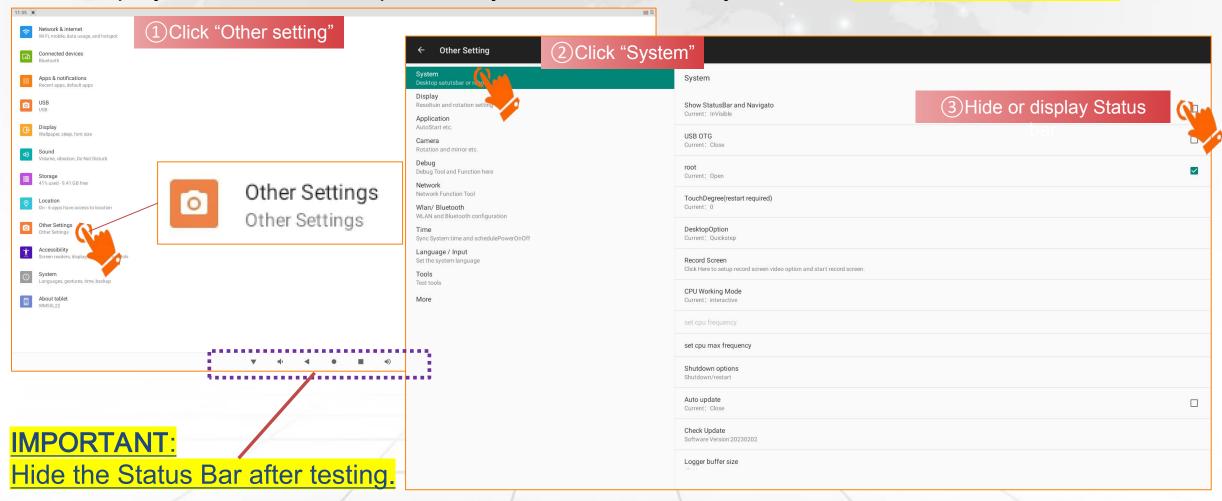
Enter Android setting, then set your desired system language from here.





3.6 How to hide or display Status Bar (also called "System bar")?

When deploy the machine for operation, you shall hide the System bar. VERY IMPORTANT!!!

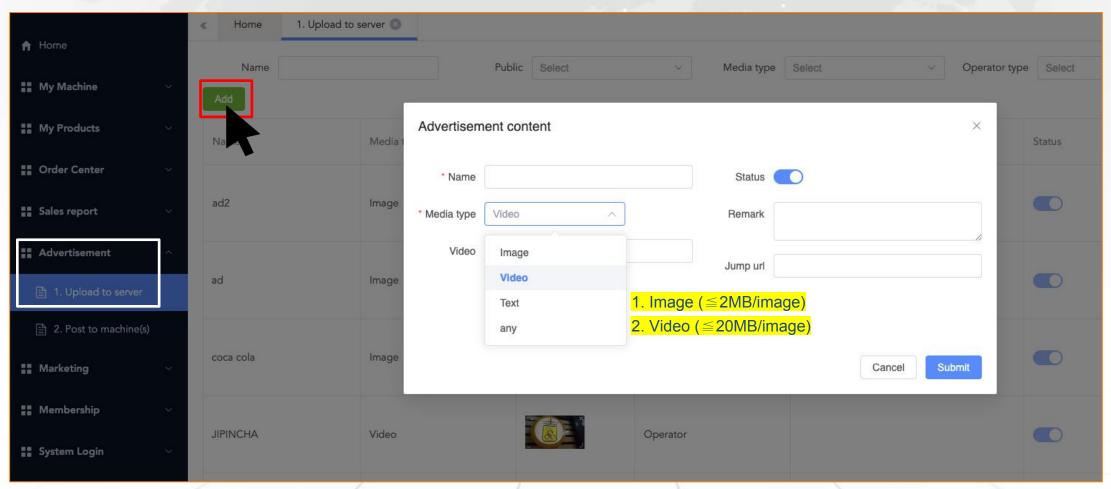


Otherwise, users can click the buttons, and make the unnecessary settings to affect the transaction.



4.1 How to post Advertisments(Ads) to the machine screen?

Step 1: Upload the advertisements materials to the server on PC system.

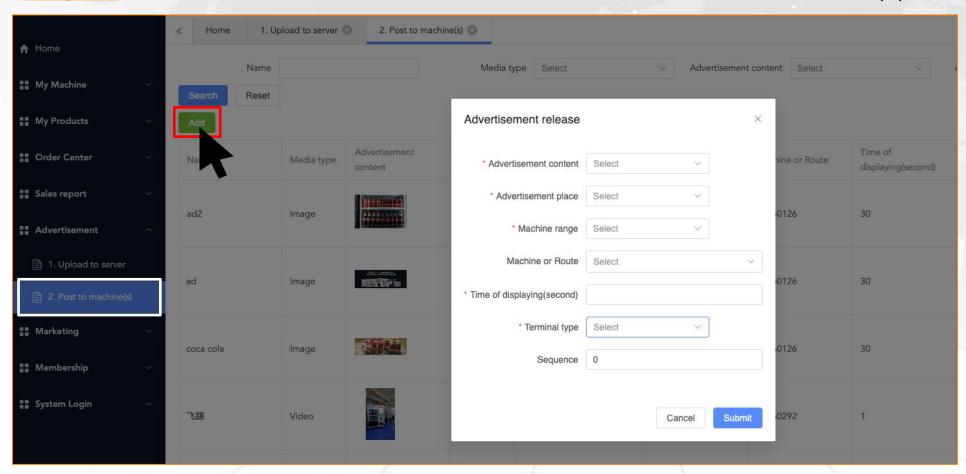


Remark: The uploaded Ads can be posted to any machine under your account.



4.1 How to post Advertisments(Ads) to the machine screen?

Step 2: Post the advertisements material from the server to the machine(s).



Remark:

1. Time of displaying

For images or texts, you shall set the desired displaying time, such as 10s or 20s/image;

For videos, you can just set any number greater than 0, such as 1 or 2. The videos will be played as

2. If you post more than 1 Ads to a machine, you can set the display **Sequence**.

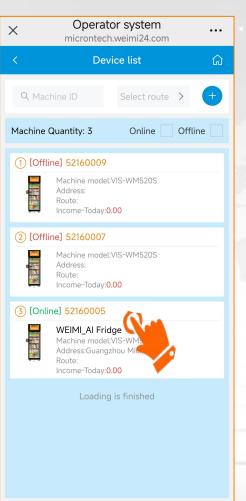
per its own time length.

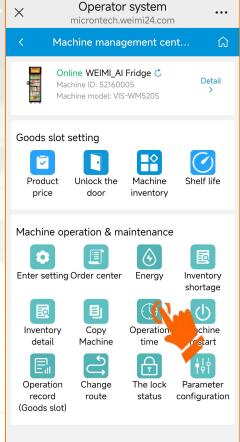


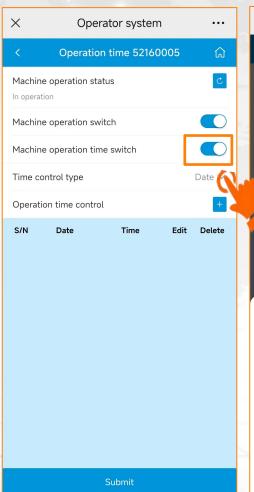
4.2 How to set the machine Operation Time (Business hour)?

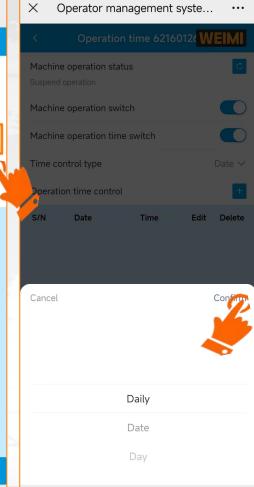
You have 3 options to set the business hours: by Daily or Date or Day.







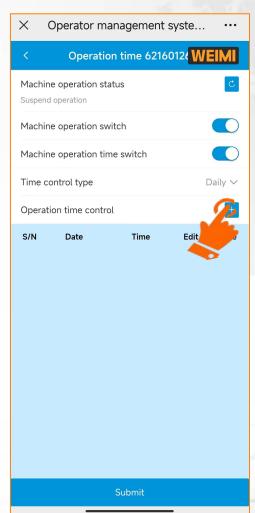


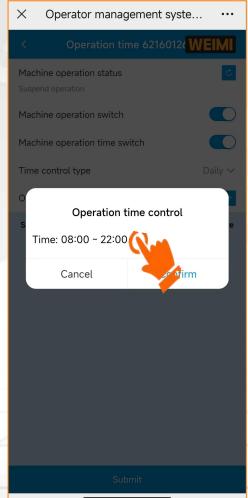


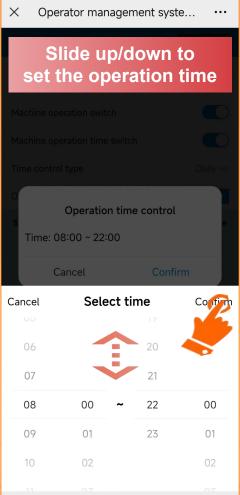


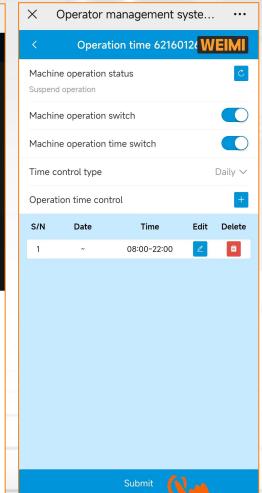
4.2 How to set the machine Operation Time (Business hour)?

When you want to set the business hours by <u>Daily</u>, please follow these steps.









Remark:

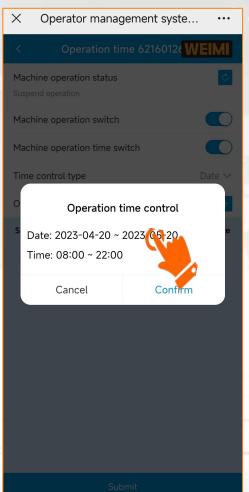
The machine screen will show "Out of Service" beyond this time period.

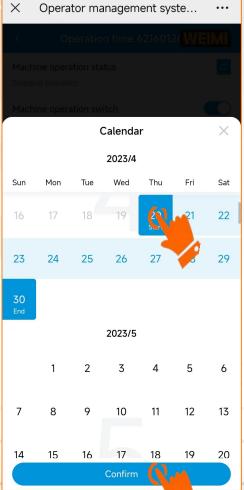


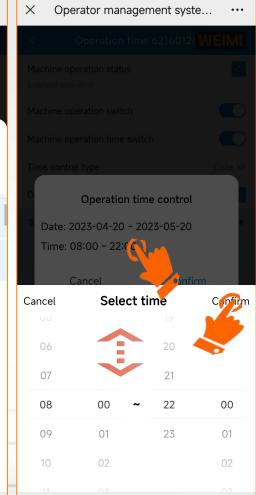
4.2 How to set the machine Operation Time (Business hour)?

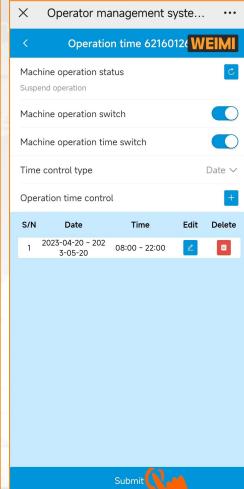
When you want to set the business hours by <u>Date</u>, please follow these steps.







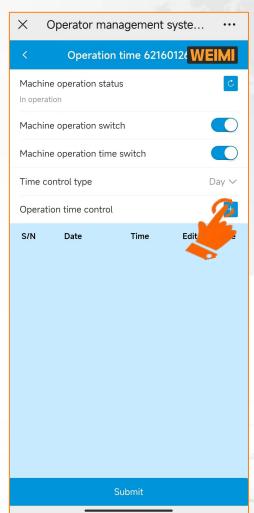


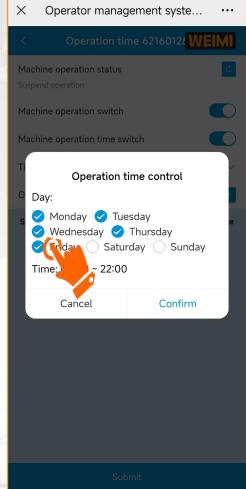


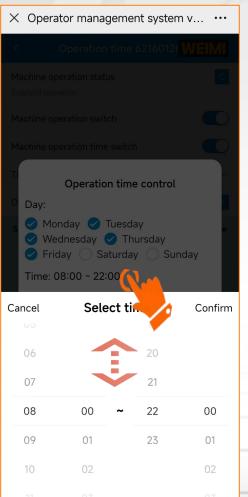


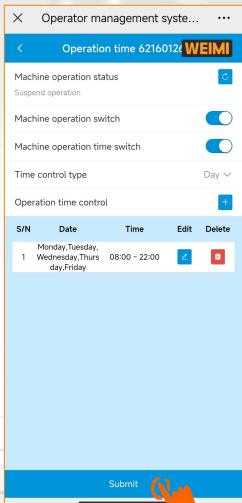
4.2 How to set the machine Operation Time (Business hour)?

When you want to set the business hours by <u>Day</u>, please follow these steps.





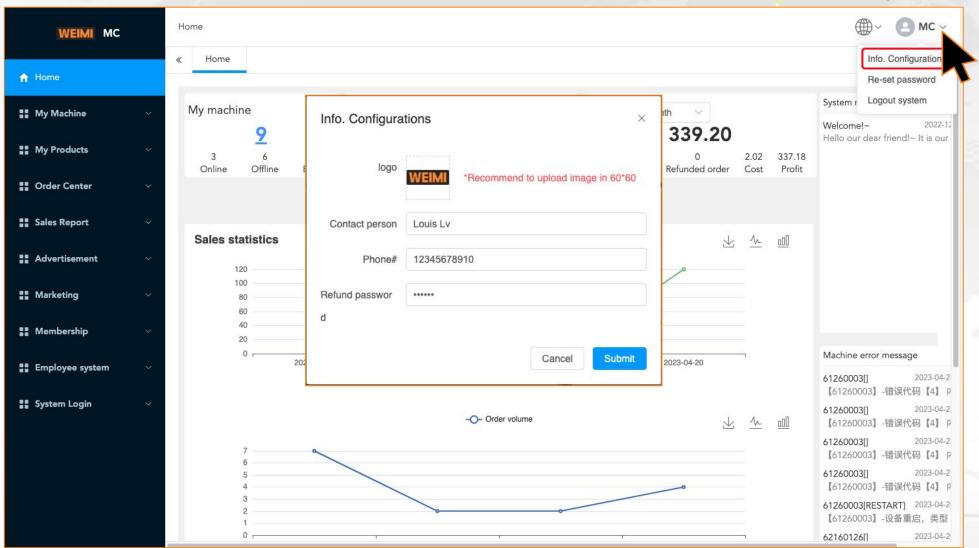






4.3 How to upload LOGO, and set Contact Number?

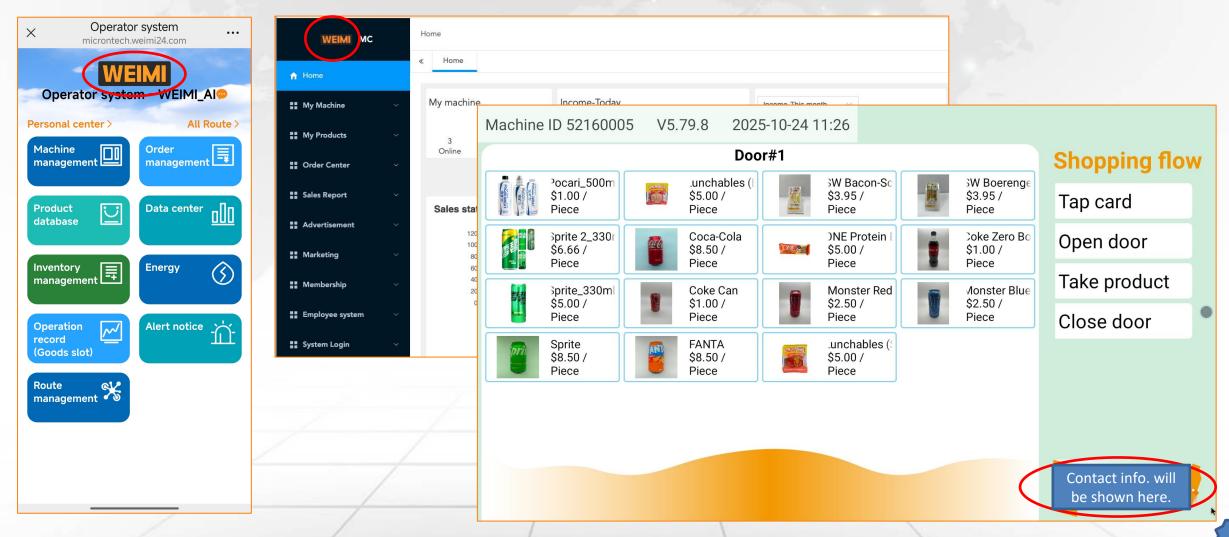
You can upload the LOGO, and enter the contact info. from the computer system [Info. configuration].





4.3 How to upload LOGO, and set Contact Number?

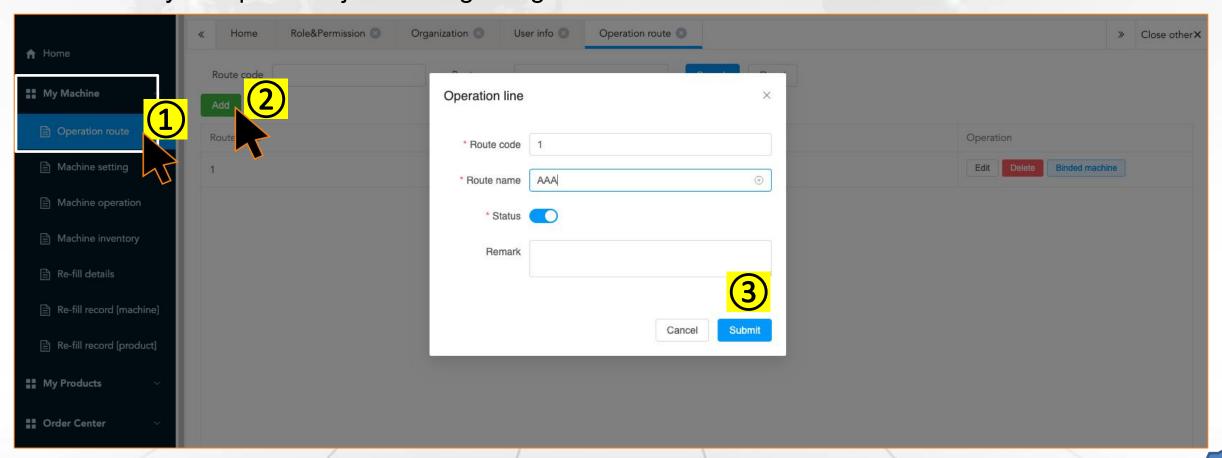
You will see the uploaded the LOGO and the contact info. from these places.





4.4 How to set Operation route?

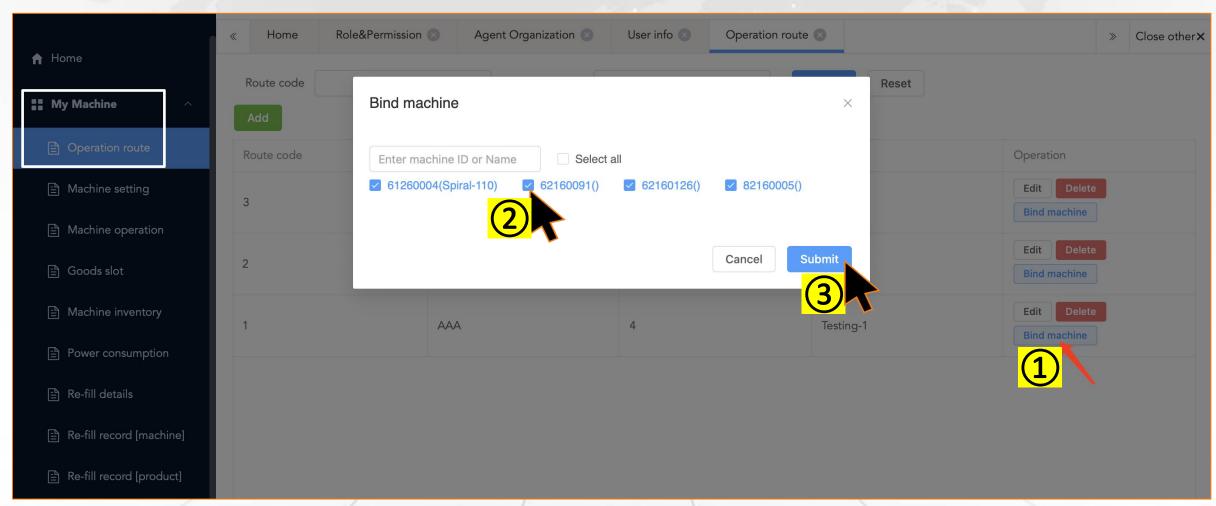
When you have many machines deployed in different locations, suggest you set Operation routes based on locations [follow these steps], then allocate them to different persons[same organization]. It will make your operation job running in higher efficient.





4.4 How to set Operation route?

After set the routes, then bind the machines to each route. 1 machine can be bound to 1 route only.





4.5 How to set Sub-accounts for your co-workers, and for your customers?

When you order from us for the 1st time, we will create an account for you, which will be regarded as the <u>Master Account</u> to manage all the machines. In future, if you place new orders, we will move the new machines into this Master account as well.

Under the Master Account, you can create 2 types of sub-accounts:

☐ 1. For your co-workers (same organization)

Such as re-fillers, financial team, warehouse keeper...

☐ 2. For your customers (different organizations) when you re-sell the machine(s).

Log in the PC system via this website link

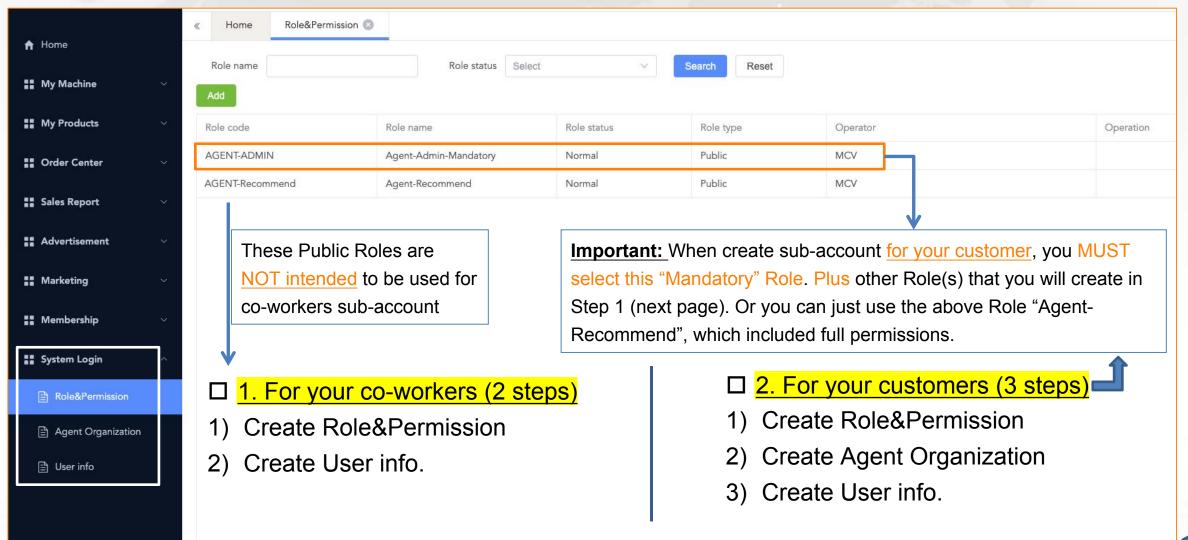
https://microntech.weimi24.com/pc/#/login





4.5 How to set Sub-accounts for your co-workers, and for your customers?

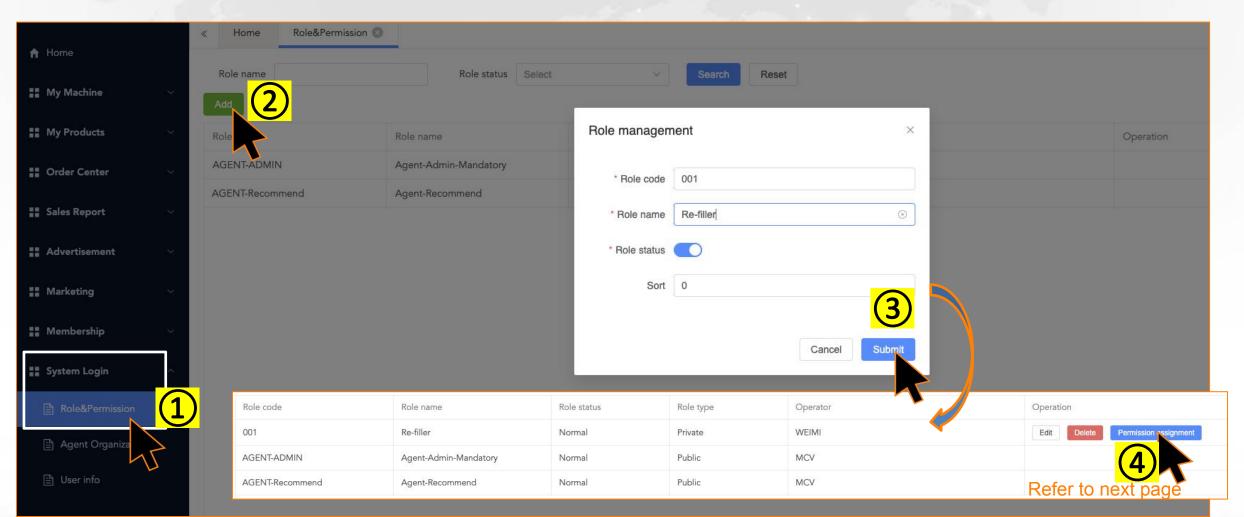
Follow these steps to create sub-accounts on "System Login" module.





4.5 How to set Sub-accounts for your co-workers, and for your customers?

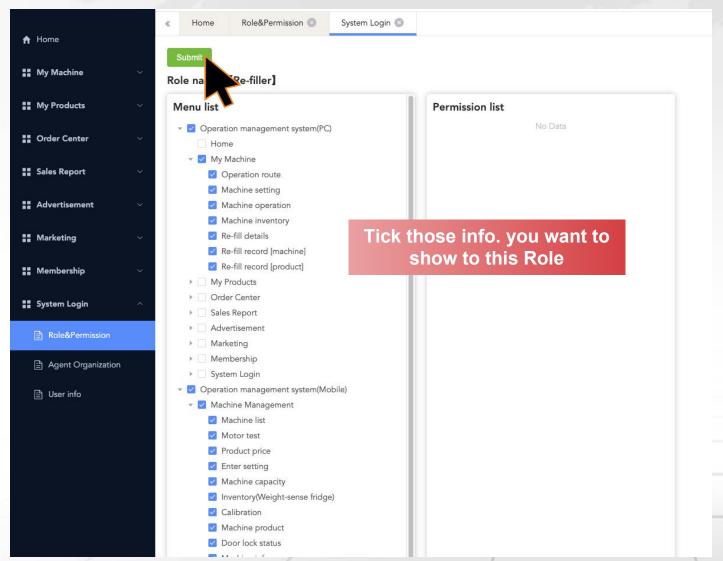
Step 1: Create a Role with your desired permissions (what info. you want to show to this role?).





4.5 How to set Sub-accounts for your co-workers, and for your customers?

Step 1: Create a role with your desired permissions (what info. you want to show to this role?).



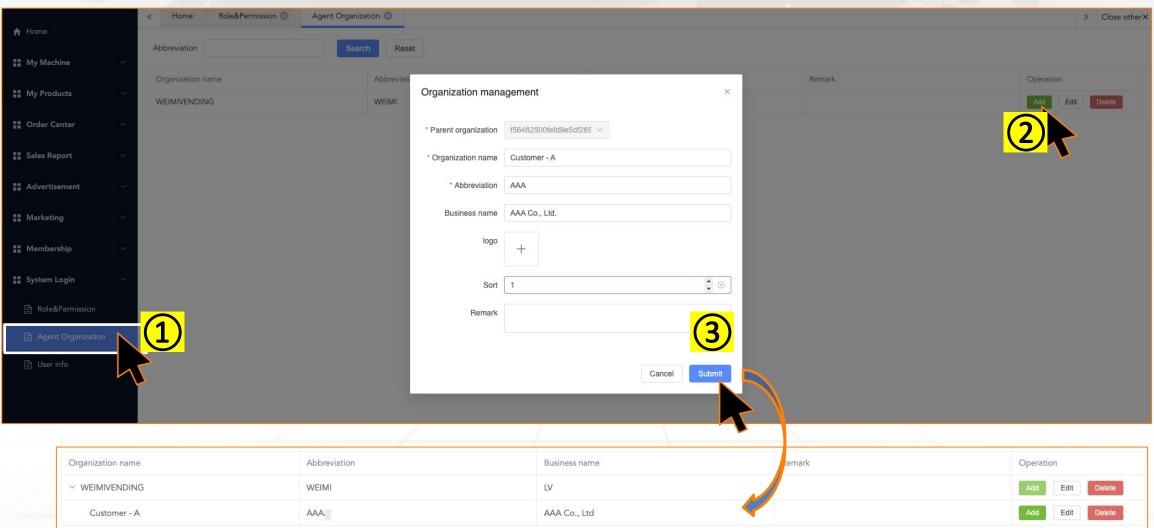
Remark:

The sub-accounts can only see the ticked items when they log in the system.



4.5 How to set Sub-accounts for your customers?

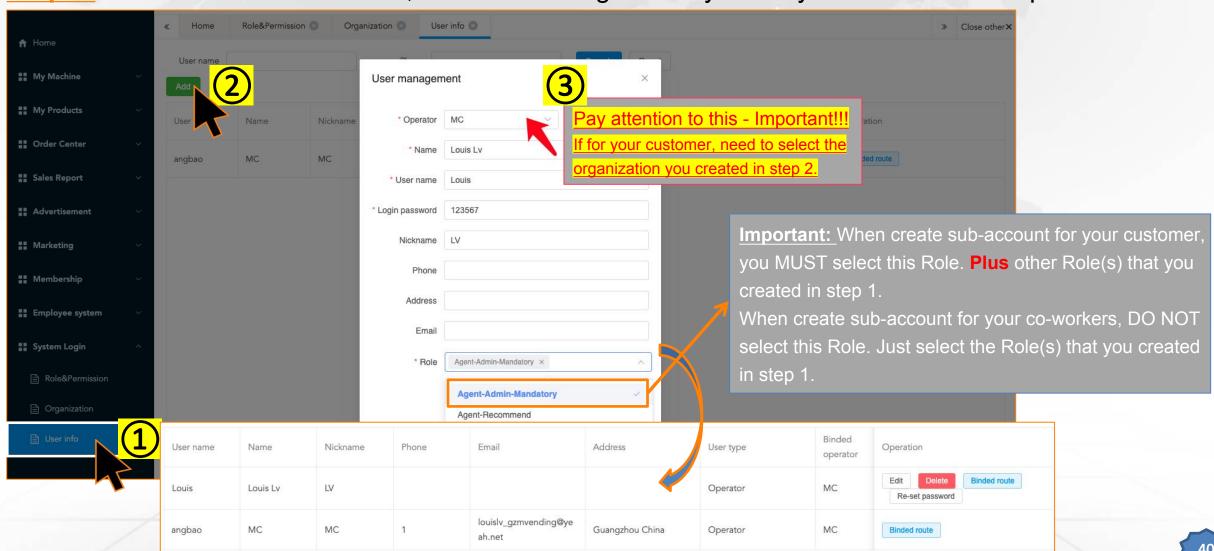
Step 2: Create an Agent Organization (ignore this step if create sub-account for your co-workers).





4.5 How to set Sub-accounts for your co-workers, and for your customers?

Step 3: Create an User. After that, the user can log in the system by this User name & password.

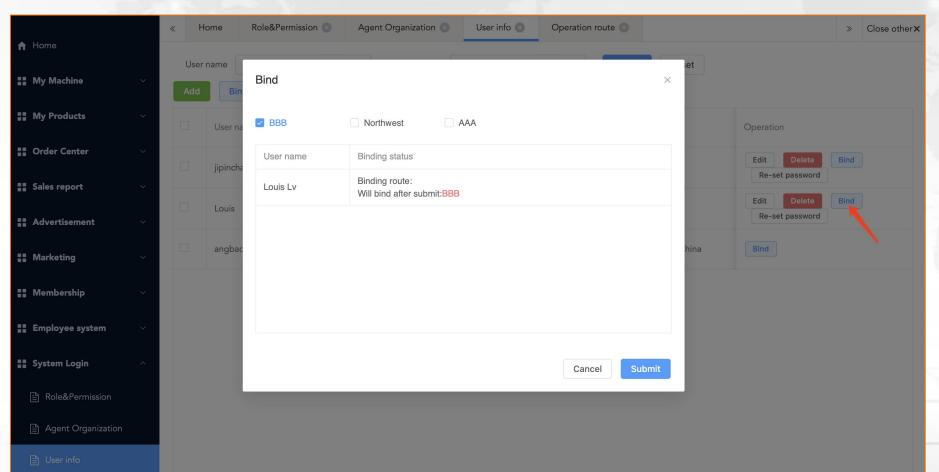




4.6 Bind machine(s) to sub-account [for co-workers]

After created a sub-account for your co-worker, please follow these steps to bind machine(s).

- 1 Create "Operation route" --- Refer to the above 4.4;
- 2 Bind the route(s) to the created user;



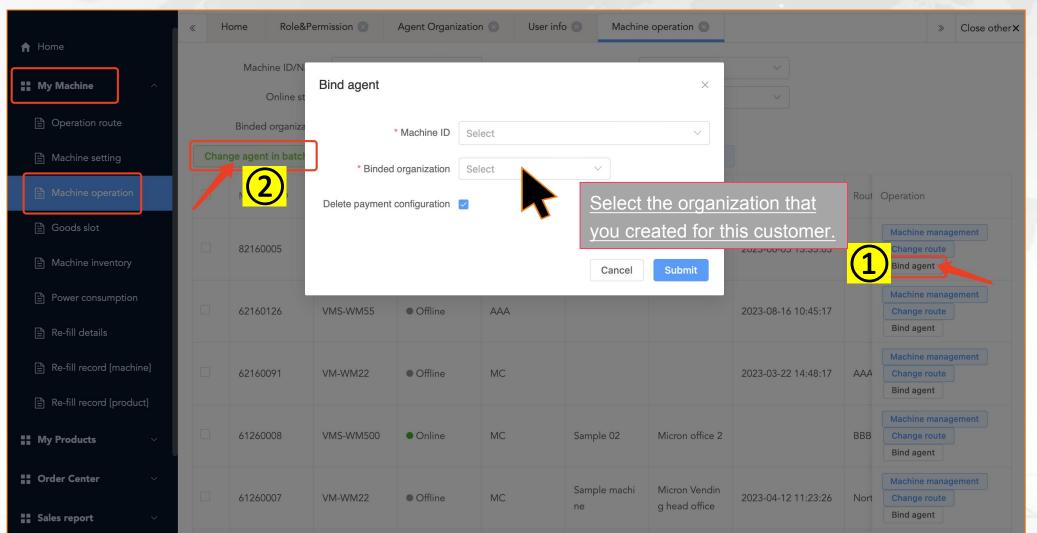
Remark:

- 1 user can bind 1 and more routes.
- 1 route can be bound to1 and more users.



4.6 Bind machine(s) to sub-account [for customers]

After created a sub-account for your customer, bind machine(s) from "Machine operation".



Remark:

You can move the machine(s) to the agent account 1 by 1, or in batch.



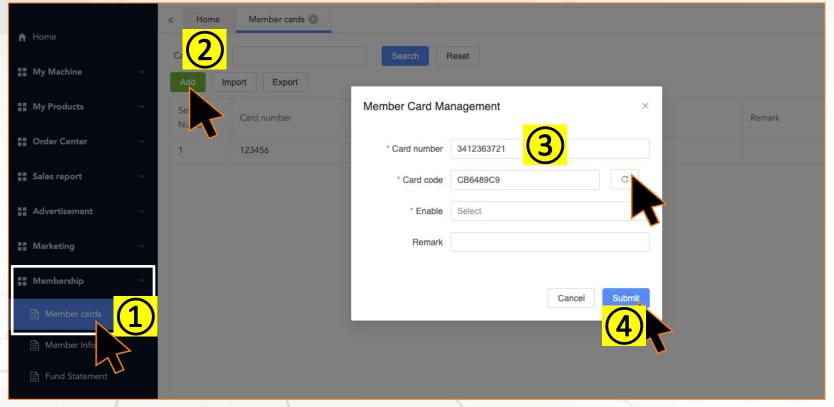
4.7 Set member card [if your machine has an IC/ID card reader]

When deploying the machines to some usage scenarios, such as offices, factories, clubs, and so on, the users can purchase from the smart fridge by using their employee cards/member cards. Follow these steps to set the cards:

Step 1: Input the "Card number" which is printed on the card, then click the button to get "Card code" in Hexadecimal format.

Enable: select "Normal"

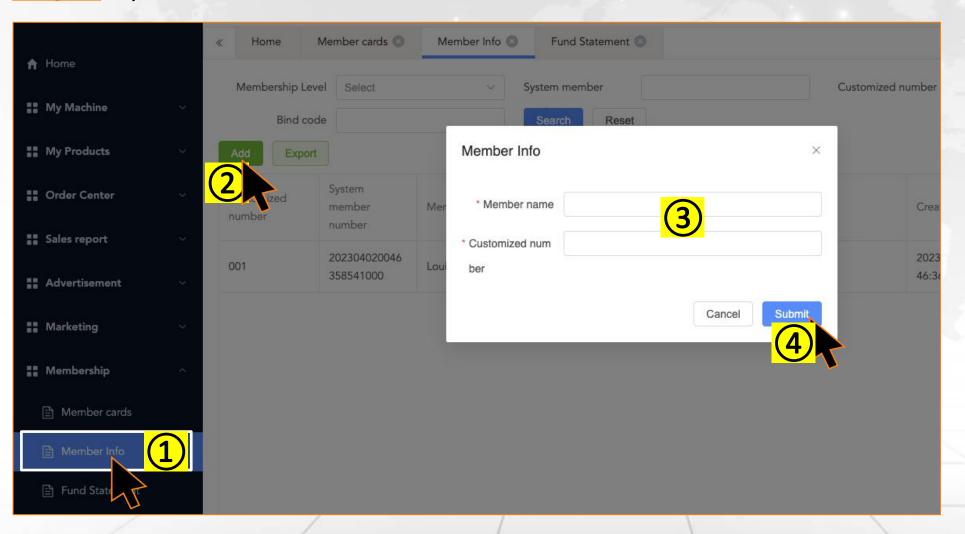
Tips: when you buy the IC/ID cards, you can ask your supplier to provide you with the "Card number" and "Card code".





4.7 Set member card [if your machine has an IC/ID card reader]

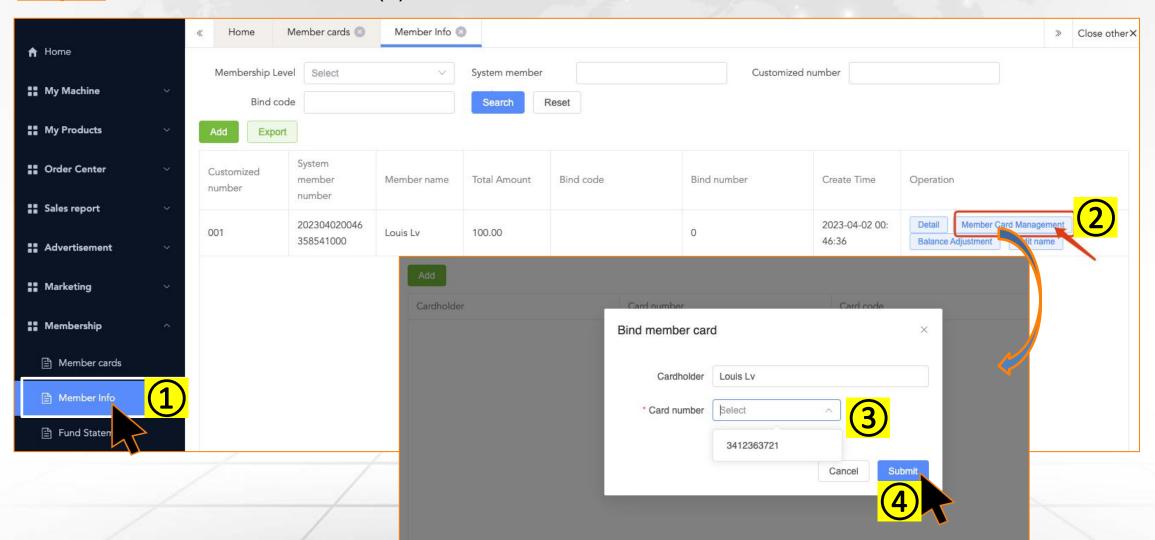
Step 2: Input the Member name and Customized number.





4.7 Set member card [if your machine has an IC/ID card reader]

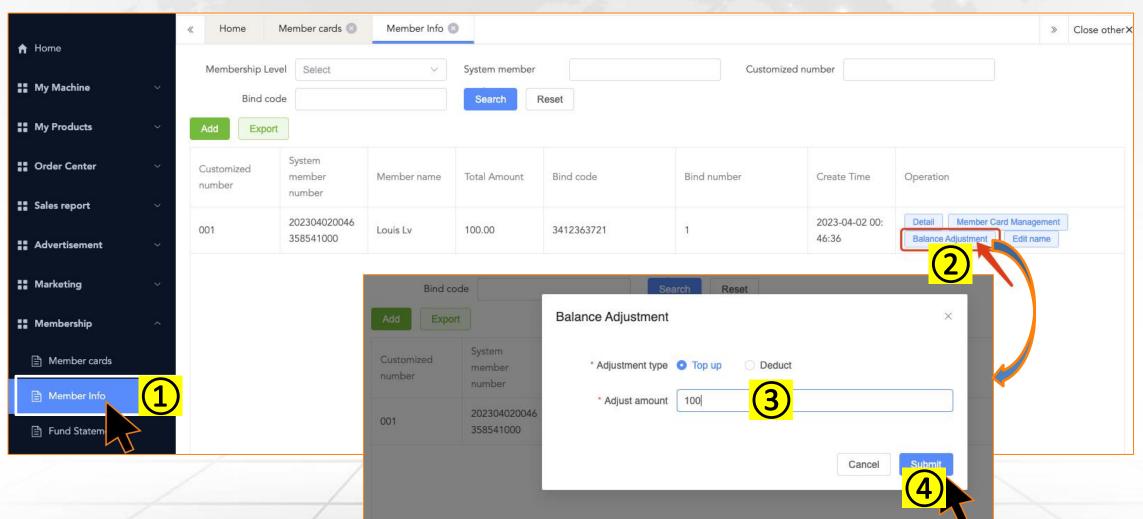
Step 3: Bind the Member card(s) to the Member name.





4.7 Set member card [if your machine has an IC/ID card reader]

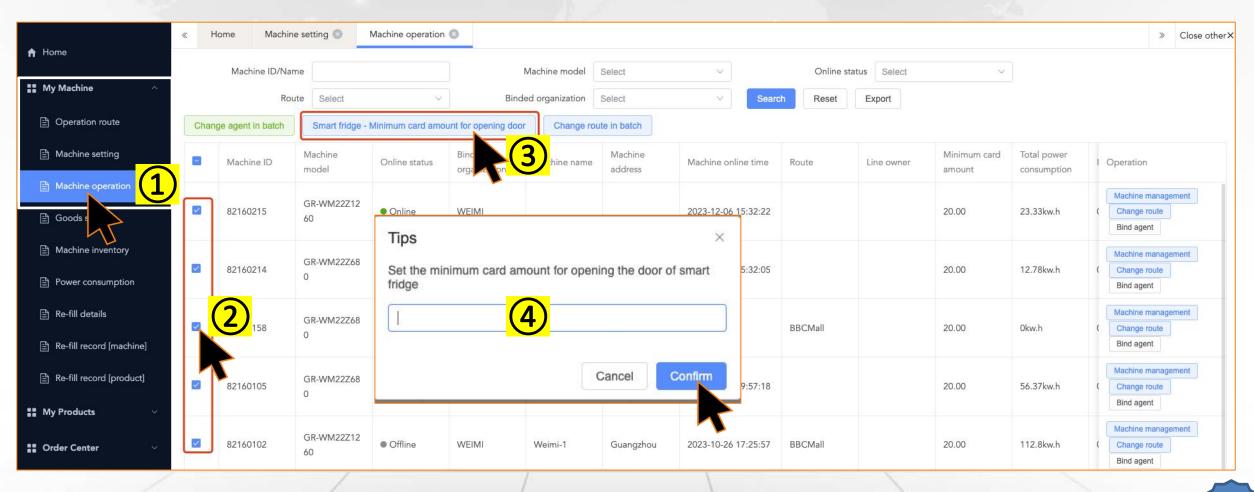
Step 4: Adjust the balance (Top up "+", or deduct "-") for the member.





4.7 Set member card [if your machine has an IC/ID card reader]

Step 5: Set the minimum card balance to open the door (User can't buy if balance is less than this). This setting is for member card only, not for BANK cards which shall be set in card reader's back-end.

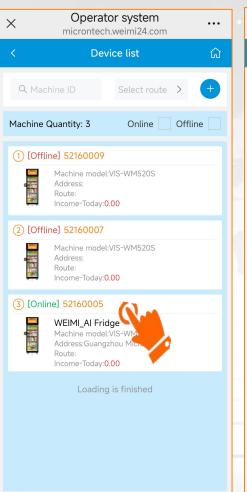


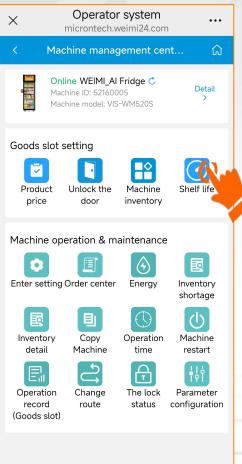


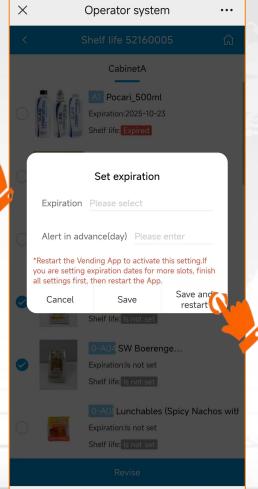
4.8 How to set Shelf life [Expiration] for the products?

Log in mobile system, follow these steps to set the Shelf life [Expiration] for each product.







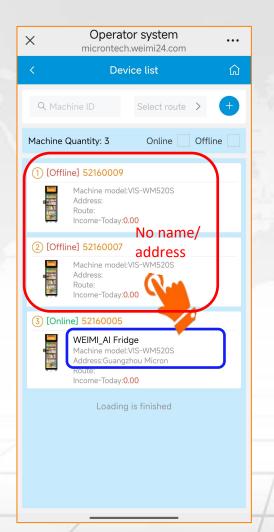


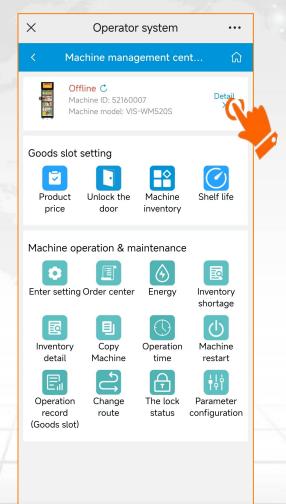


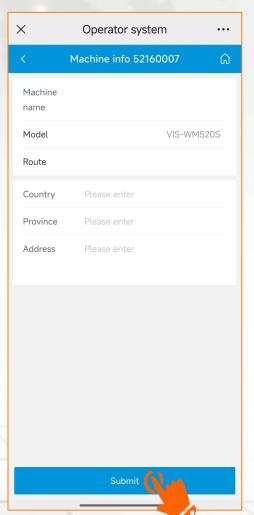
4.9 How to set Machine name/address?

After you deployed the machine to the location, you can set the machine name and location.







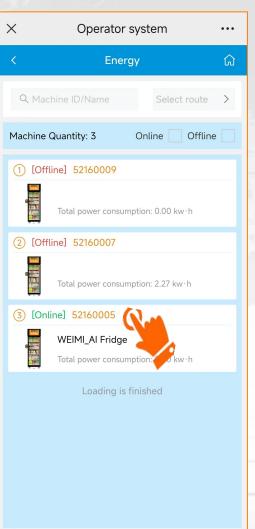


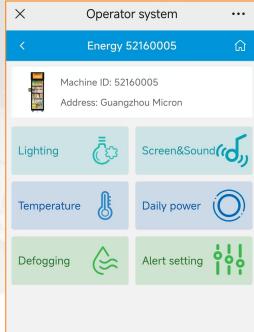




5.1 Energy module







From here you can check the daily power consumption of each machine;

You can remotely control the LED lighting/Screen/Sound/Temperature/ Glass defogging;

You can set the Alert from abnormal temperature, current, and voltages, the abnormal info. will be sent to your email.

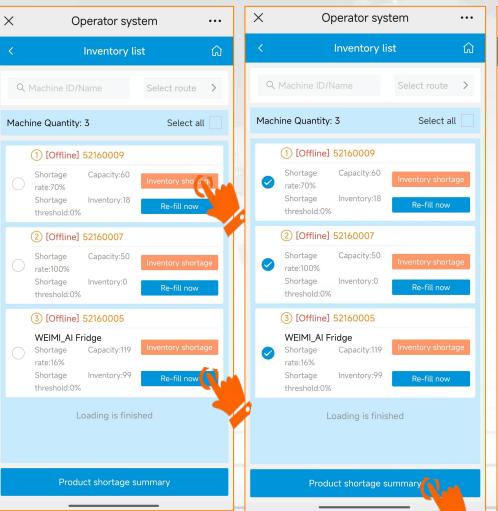
Part V: Check real-time data

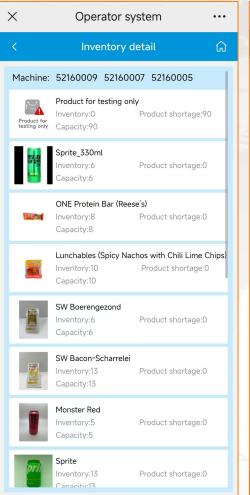


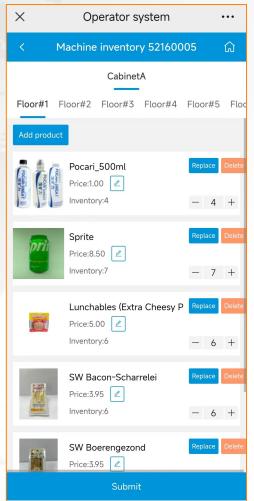
5.2 Real-time Inventory

In this page, you can check the inventory shortage, and you can do the re-fill as well.







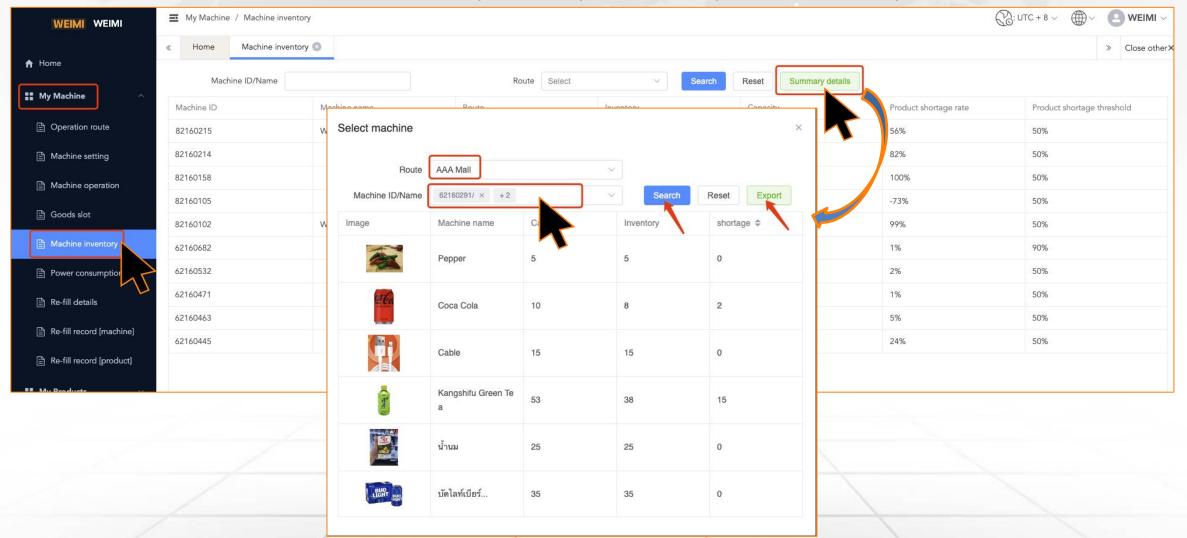




Part V: Check real-time data

5.2 Real-time Inventory

You can also check, or export inventory details(in excel file) from the PC system.



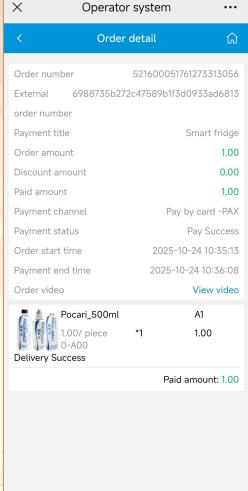




5.3 Real-time & History Orders







From here you can check the realtime order (Today's order) and the 30-day orders;

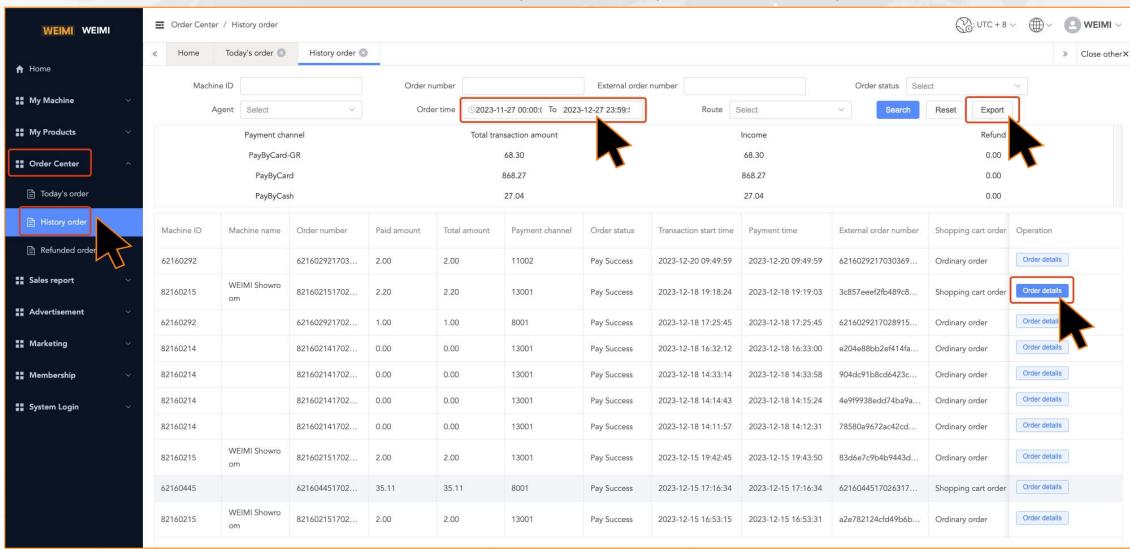
You can see the status of each order, success or failes, and click the order to check more details;



Part V: Check real-time data

5.3 Real-time & History Orders

You can also check, or export order details (in excel file) from the PC system.

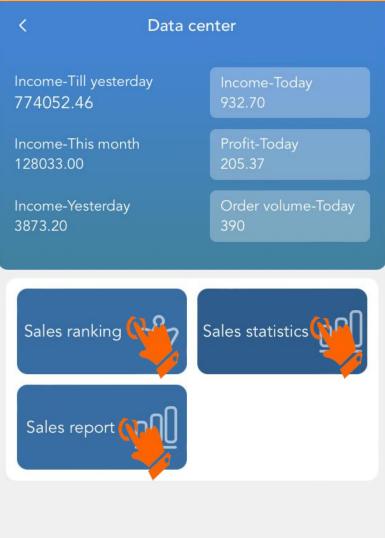


Part V: Check real-time data

WEIMI

5.3 Real-time Sales/Order data





From here you can check the overall sales data under your account;

Sales ranking: You can see the ranking as per sales amount by machine, or by products; This will be helpful for you to adjust the locations for your machines, and sell the right products to meet customers' demand.

Sales statistics: You can check the sales data of each machine, and summary statistics of all machines in a certain time period.

Sales report: You can check the sales statistics of all machines/route(s) in a certain time period, and categoried by payment channels.



Bring smart unmanned retail to everyone's life!

Need more details? Contact us!

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Youtube channel



Tutorial videos

Company website-1



Company website-2



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