

Plasma-activated gel preparation system

Instructions

Product Name: Plasma-activated gel preparation system

Product Model: BeUlight P1

Date of manufacture

Expiry date:

Registrant/Manufacturer/After-sales service: Wanshen (Beijing) Plasma Technology Co.

Registrant Address/Manufacturer Address/After-sales Service Address: Room 203, 2F, West Unit, Building No. 16,
Yanqing Development Zone, Beijing (Zhongguancun Yanqing Park)

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About this manual

- This instruction manual provides guidance on the installation, operation and daily maintenance of the Plasma-activated gel preparation system.
- These instructions apply to the P1 Plasma-activated gel preparation system.
- Please read the specifications and the user manual carefully before using and follow the instructions below correctly.
- Strict adherence to all warnings and instructions in this manual is essential for the safe and effective use of this preparation system.
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1.Product overview

1.1 Product use and scope of application

The Plasma Activated Gel Preparation System uses PAH2O technology to instantly activate and prepare gel for teeth whitening on-site(Gel).

The teeth whitening gel prepared by the system is suitable for people over 16 years old (excluding pregnant and lactating women). It is applied on to the teeth to clean, protect, modify and beautify the teeth. People with sensitive teeth are advised to use it under the guidance of a doctor.

1.2 Instructions for safe use

1.2.1 Note



1.2.2 Warnings



1.2.3 FCC Warnings

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, A distance of 20cm shall be maintained between the antenna and users, and the transmitter module may not be co-located with any other transmitter or antenna. Use only the supplied antenna.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

1.3 Product Model & Specification

1.3.1 Model and Function Description

functionality	Product Model		
	P1	P2	P3
user management	√		√
A Liquid activation	√		√
Gel Preparation	√		√
Inventory management	√		√
material traceability	√		√
Status Enquiry	√		√
locate	√	√	√
Consumables Library	-	-	√
control panel	mobile	integrated	integrated

1.3.2 Product Composition and Working Principle

The Plasma Activated Gel Preparation System consists of the Plasma Activation Module, Gel Preparation Module, Beulight Control Software, Whitening Gel ABC Kit, and the Tablet PC.

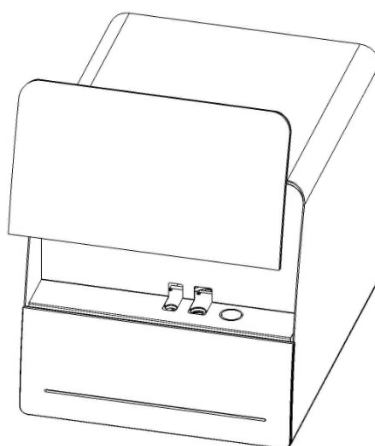
The Plasma Activation Gel Preparation System is an automated device used for instant activation and on-site preparation of teeth whitening gel. The system integrates plasma activation and gel preparation synthesis. PAH₂O activation technology enables safe and efficient on-site preparation of teeth whitening gel, aiming to provide consumers with a better teeth whitening experience.

1.3.3 List of items

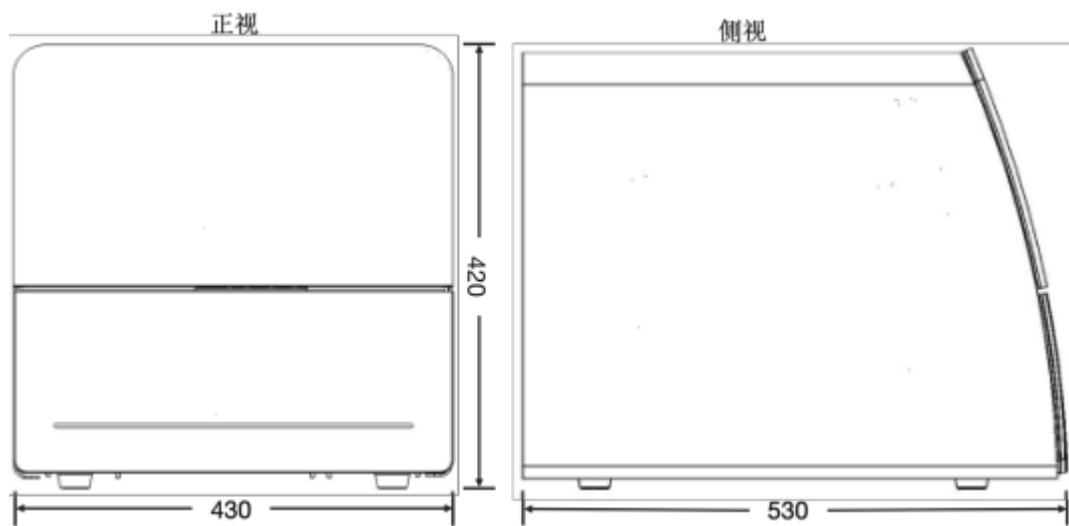
Hosts	*1	Silicone Hose	*1
Power cord	*1	instruction manual	*1
Equipment Antennas	*1	certificate of conformity	*1
Waste liquids bottle	*1	optional	tablet

1.4 Exterior

- schema

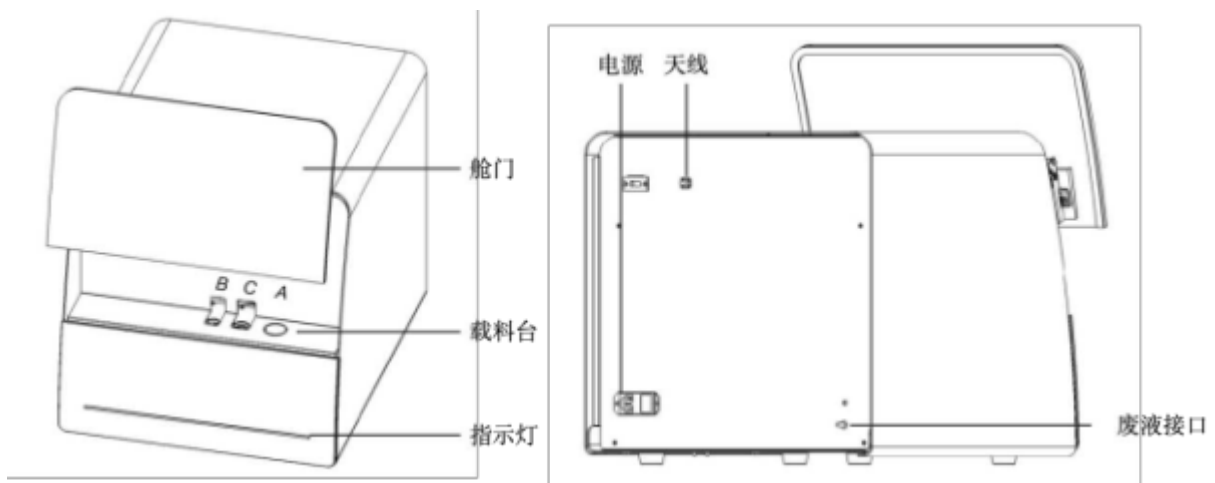


Opening Position Perspective

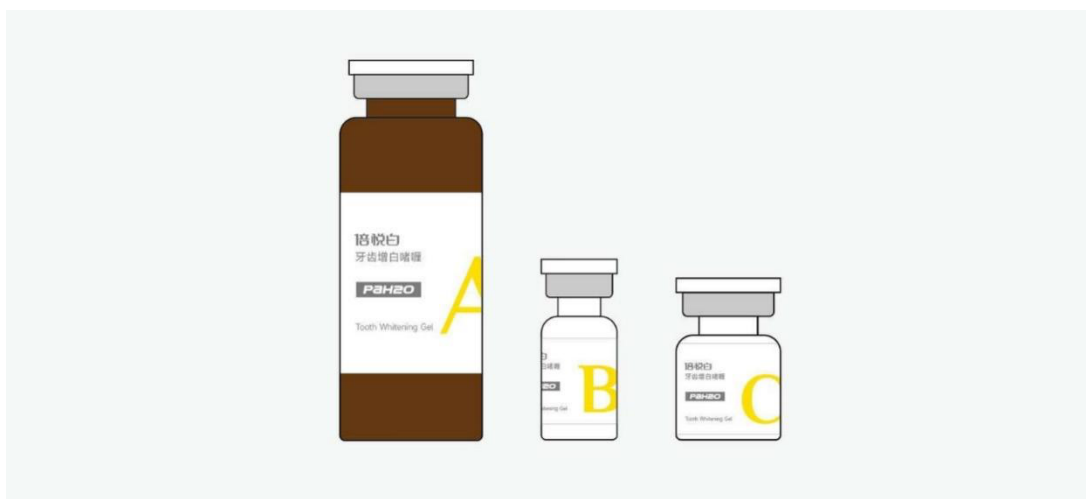


Closed Position Perspective

- Structure



- Consumables Schematic



2. Technical information

2.1 Equipment parameters

Device size: 420x530x430 mm

Operating voltage: AC 220V/50Hz

Device power: 100W

Weight: 20 kg

Useful life: 15 years

2.2 Environmental parameters

Transport and storage conditions:

Temperature: -40° C- + 70° C (-40° F- 158° F)

Relative humidity: 10-95 per cent

Air pressure: 500hPa- 1060hPa

Operating conditions:

Ambient temperature: 10° C to 40° C (50° F 104° F)

Relative air humidity: no more than 80% (no condensation)

Air pressure: 70kPa~106kPa

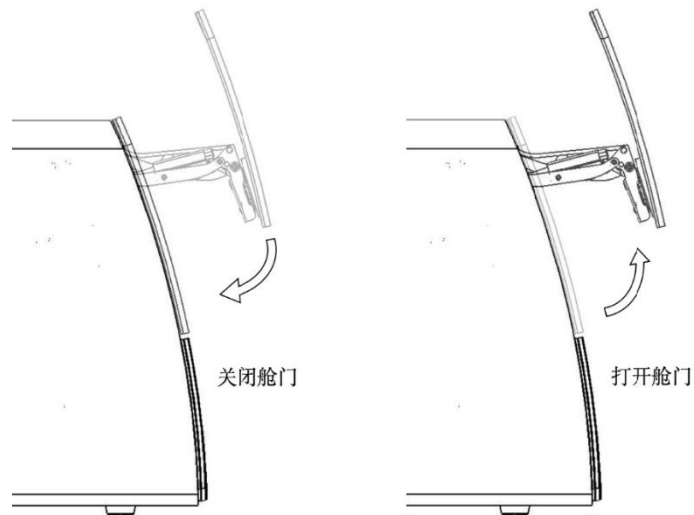
2.3 Electrical classification

Parametric	Numerical value
Electric shock protection level	external power supply
Degree of protection against electric shocks	
Waterproof rating	
Operating mode	Run continuously
Rated voltage and frequency	
Air composition of the operating environment	220V/50Hz

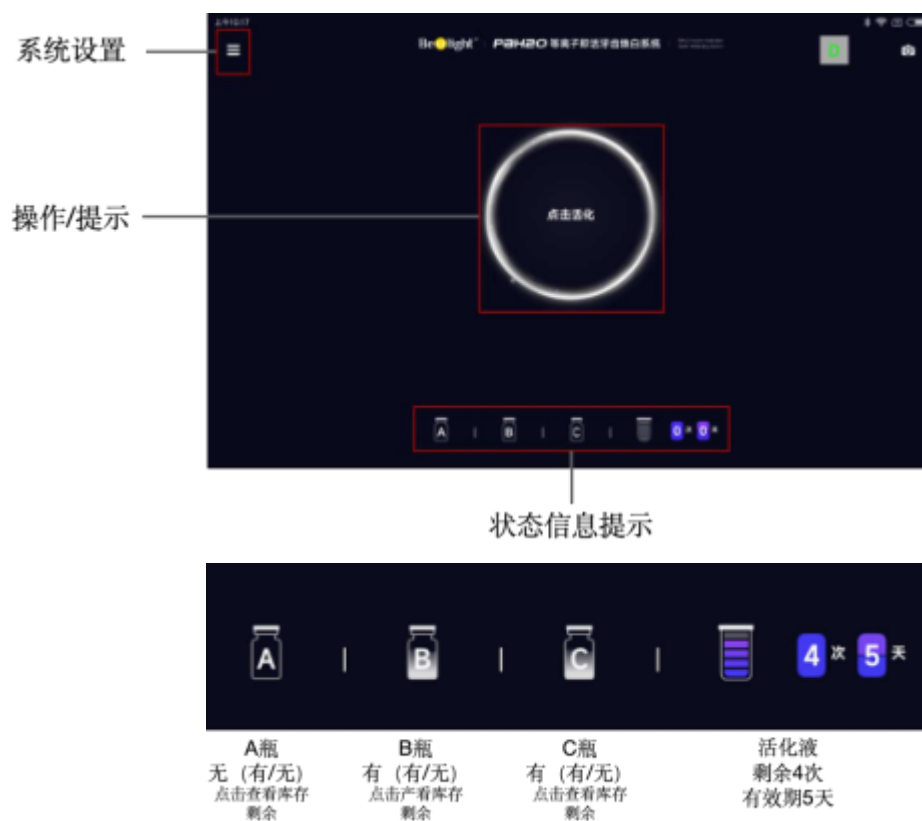
3. Installation and use

3.1 Operation

- Open/close equipment hatch

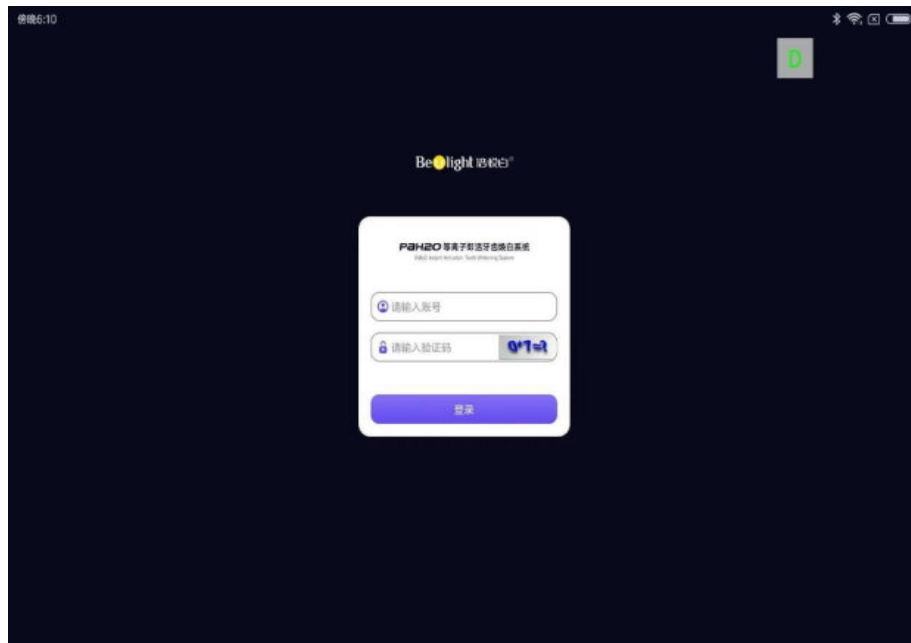


- Main Page Description



- User Login

Enter your registered username and random code and click ‘Login’ . Make sure your tablet's network connection is working before logging in.



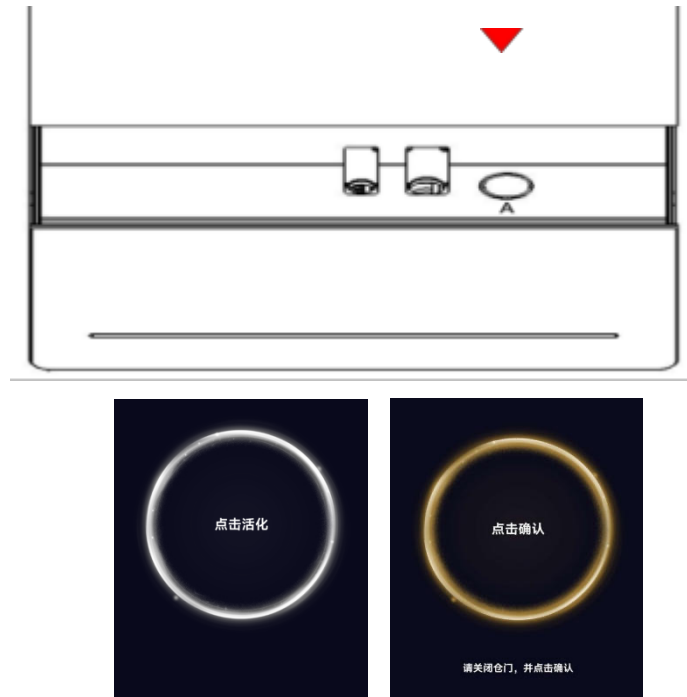
- Device Binding

Click on "System Settings" icon , then click on "Bluetooth Settings", the software will search for devices automatically. Select “BeUlightP1” to complete the device binding. Click on "<" and return to the homepage.

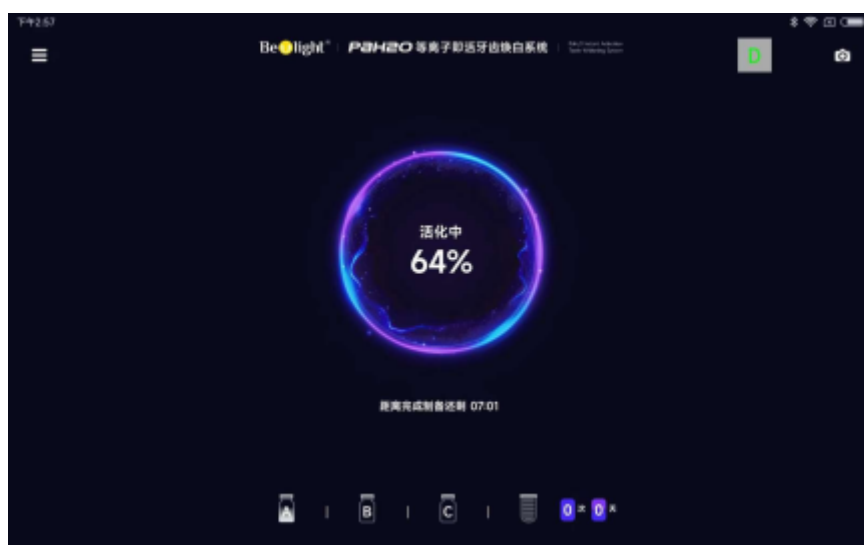


- Activation solution preparation
- Place bottle A

Click on "Click to Activate" and follow the software prompts to place "Bottle A" correctly in the designated area of the Preparation System Carrier Table.



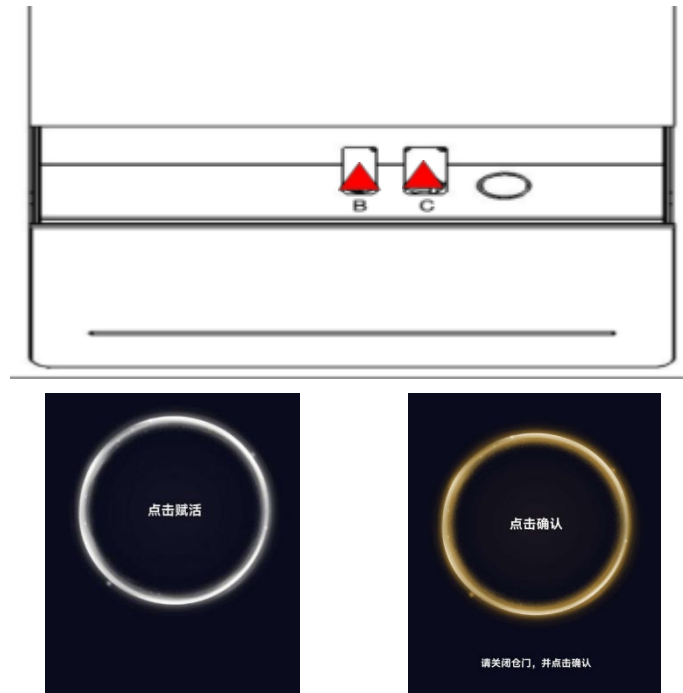
Close the hatch and click on "click to confirm", then the system will enter the activation process.



Activation solution in preparation

- Gel Preparation
- Place bottle B and bottle C

Click on "Click to activate", and follow the software prompts to place bottle B and bottle C ", properly in the designated area of the preparation system loading table. Close the hatch and click on "Click to confirm".

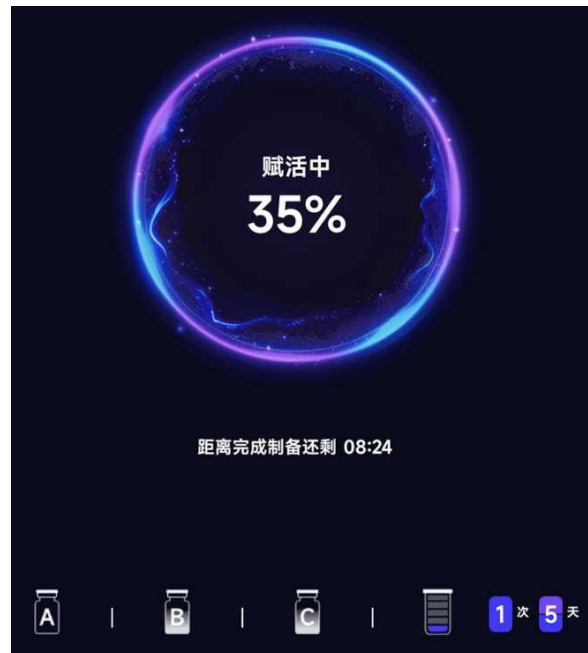


- Scan the code for verification and cancellation

Follow the prompts to click on " click on the code to verify and cancel". Point the tablet' s camera at the cancellation code presented by the user.



The system will enter the gel preparation process after successful cancellation.



When the gel is prepared, open the hatch and remove the prepared gel.



- Manual waste discharge

Click on System Settings "☰" and click on "Discharge" in the Settings column, then the unit performs manual discharge. After the waste discharge is completed, the number of activations and valid days are reset to zero.

Note: The activation solution should be used up within its validity period. After that, manual waste discharge is required before preparing a new activation solution.



3.2 Troubleshooting

- Device connection exception

Treatment: restart the preparation system, open "📶", then APP connects to the preparation system automatically.



- ID of Bottle C is not read

Treatment: Click on "Click return", open the hatch and remove bottle C and reposition it into the C position. If it still doesn't work, replace the bottle C with a new one and perform the gel preparation operation again. Also, contact customer service to apply for after-sales service.



3.3 Installation and commissioning

3.3.1 Connect the silicone hose and the waste bottle.

3.3.2 Power on

Firstly, check that if there is any damage to the exterior and whether all the accessories are complete .

Equipment outlet is three-pin plug (in accordance with national sandards). Please check if the power cord on the device is damaged before plugging in.

If there is any damage to the power cord, do not power on.



Finally, after confirming that everything is in good condition, insert the power cord and turn on the power switch. When the device indicator light comes on normally, the power-on operation is completed.

3.3.3 Equipment operating instructions

(After the new machine is powered on, the operation steps at the terminal are as follows:)

4. Equipment Maintenance

4.1 Basic maintenance of equipment

To ensure the safety of equipment operation and the stability of performance and to avoid losses caused by wear and tear, users should carry out regular maintenance.

4.1.1 Lubrication and airtightness checks are recommended every six months to prevent rattling or abnormal pressure during operation.

4.1.2 If the equipment is not used for a long time, please manually discharge the waste and empty the activated solution in the equipment.

To ensure the safe operation of the equipment, we strongly emphasize that the installation and maintenance of the equipment should be carried out by our manufacturer or an institution explicitly authorized by the manufacturer. If any component that affects the safety of the equipment is damaged, it should be replaced with original factory spare parts.

We suggest that when carrying out such work, relevant certificates such as the type and scope of the operation should be obtained from the operator, and it should also include the date, company description and signature.

5. Frequently asked questions

5.1 Frequently Asked Questions of equipment hardware

5.1.1 Indicator lights do not light up properly when the unit is powered on

Please check if the AC power supply is normal

Check if the APP is properly connected to the device. If it is, and the indicator light is not on, contact the manufacturer for handling.

5.1.2 Rattling or non-stopping during use of the equipment

Please check if the raw material bottles are placed properly.

Turn off the equipment and contact the manufacturer for handling.

5.1.3 Common Operational Problems

If bottles A, B and C are placed in the designated position without opening the caps, it may cause damage to the equipment components.

If bottles B and C are placed upside down with their mouths facing downwards in the designated position, it may cause the equipment's loading platform to jam or the bottles to break.