

BM28 User Manual



Notification

Dear user:

Thank you for using our company's products. In order to fully utilize the products, we sincerely

We offer the following:

- Be sure to read the instructions carefully and retain them for future reference. Follow
- instructions for the correct installation and operation of the machine.
- Except for professionals, no one is allowed to modify or service the machine.
- If you have any questions during operation, please contact us.
- This product is not a medicine, please do not use it to treat any disease!
- It is not recommended to use the SHR. Devices and environmental conditions such as electromagnetic interference, vibration, etc. may cause interference. During operation, the radio frequency device does not interfere with the operation of other devices.
- Used or replaced parts of the radio frequency equipment should be returned to the authorized agency or the manufacturer for joint disposal to avoid environmental pollution.

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Chapter 1. User instructions

Before operating the machine, read the user manual carefully! Make sure the device is in working condition. If the operator intends to connect the device to other peripheral devices, read carefully the operating manual of the peripheral device. If in doubt, contact the factory.

- Do not use this device with other electrical equipment.
- Do not operate the device during a thunderstorm (during a thunderstorm, current may flow into the device and affect its operation).

Normal power.)

- Do not expose the device to strong current and strong magnetic field, otherwise it may cause malfunction.
- Make sure the voltage in the room matches the power supply area of the device. Do not use more than 240V

AC.

- Do not use the device in places with high temperature or humidity to avoid electric shock or malfunction.
- Before use, make sure the device is connected to a power source.
- Before use, make sure the connection between the chain and the accessory is secure.
- Avoid connecting to multi-pin sockets.
- Do not shake or impact the device during operation.
- If the cable or connection is damaged, the device has been dropped, exposed to water, or otherwise damaged, do not connect it directly.

Use the device.

- Do not use the cord as a handle.
- Keep wires and hoses away from heat sources.
- It is best to operate the device in a dry place and do not use it outdoors.
- Use only the appropriate accessories provided by our company.
- Please turn off the power after use, before cleaning and maintenance.
- Do not use detergents, solvents or chemicals for cleaning.
- Do not use the device when using aerosol products.
- Avoid exposing the device to water.

- 11 Children under 18 years of age and persons with disabilities are not allowed to use the device alone, they should be under someone's supervision.

use.

- 7 Children under 18 years of age are strictly prohibited from using the device.
- Do not use the device if your skin is irritated or damaged.
- Do not apply to eyes, glottis, genitals, oral cavity, ears, nasal mucosa or nipples.
- Pregnant women are prohibited from using it.
- If in doubt, consult your doctor before use.
- Do not use modified or altered equipment.
- Before surgery, wear professional protective glasses and goggles to avoid direct light entering your eyes.

1.1 Security

- The device has a self-test function. When the device is turned on, the system processor performs a check security. In addition, the system processor will perform "current tests" and "interval tests" during device operating time.
- In case of emergency, press the emergency button (red button) to turn off the device.

NOTE: Dealer trained personnel are authorized to perform in-house maintenance.

equipment. Improper maintenance by non-professionals may void the warranty.

1.2 Operator training

This equipment can be used by personnel who have undergone professional training. Operators who have not undergone training or Persons who have not received qualified training are not allowed to operate or use this equipment. To ensure proper using our products, we recommend that you read this manual carefully before using them.

Before starting treatment, explain to the patient the possible risks associated with the treatment. We recommend reaching an agreement on treatment. The success of treatment largely depends on the operator's experience and level of professional knowledge. Patient safety is the first The queue depends on well-trained operators and appropriate procedure rooms. The attending physician must inform the patient of all risks associated with the use of this device.

If you are undergoing treatment, please make a note "No entry for unauthorized personnel". During the operator must wear professional protective glasses. Patients should wear professional glasses. Do not wear other glasses or protective glasses without consulting a specialist.

1.3 Safety of electrical equipment and machinery

Power source used by the device:

The device has a voltage of 220 V:220 V+10% 50/60 Hz, single-phase 3-wire socket.

The device is designed for 110V:110V+10% 50/60Hz, single-phase, three-wire outlet.

The equipment uses a three-pin power cord of national standard and provides complete grounding of the grounding wires. Only authorized personnel should repair the equipment.

Notice:1.The high-power pulse light device generates heat energy, and the use of flammable substances such as acetone and alcohol are strictly prohibited. Do not use the device if it has been disinfected with alcohol. Only after Once the alcohol has completely evaporated, people are allowed to use the device.

2.Do not use in the presence of flammable, anesthetic, air or carbon monoxide mixtures.

Use this device.

Chapter 2 Equipment Description

2.1 Equipment structure and performance

2.1.1 Structural composition

The whole structure of the machine is mainly divided into three parts: main unit, control system and processing handle. System

The control includes emergency stop button, key switch, display, etc.

2.1.1.1 Host: is the carrier of other components.

The system host consists of the following components:

1. Power module: Provides power to the entire device.

2. Control system module: performs various tasks by accepting input information and outputting actual functions

according to the operator's commands.

3. Display screen module: Displays system information and receives operator's working requirements.

4. Cooling system module: circulate water, reduce the machine temperature and maintain longer working time

2.1.1.2 Control system: Mainly implements various instructions of the equipment through the control module.

work, BM27 The equipment control system mainly consists of the following components:

1. Key switch: on/off

2. Emergency stop button: Turn off the machine immediately in case of accident or abnormal situation to ensure the safety of the machine.

3. Display screen: Input and display system settings.

2.1.1.3 Processing handle: It is the main part of the operation and the main component of the equipment.

Including water pipes, electric wires and pen head etc., water pipes and electric wires are connected together with

the head of the pen inside the pen tube.

2.1.2 Product performance parameters

Parameter name	IAG parameter
Machine power	500W/800W
Pen type	Single Light, Single Rod (5)/Single Light, Double Rod (5+5)
Working head	532nm/755nm/1064nm/1320nm/Non-invasive
Energy density	50-1000 mJ/cm ²
Light spot	6mm
Pulse repetition frequency	1-10Hz
Screen	15.6 inch capacitive touch screen
power supply	300W/500W
size	39X32X32(CM)
net weight	20KG

2.2 Therapeutic function:

BM27 The main therapeutic functions of the device are eyebrow washing, tattoo removal, etc.

2.3 List of accessories for equipment

Part name	quantity	Part name	quantity
Instructions (electronic version)	1	Foot switch	1
YAG Handle Set (with 3 Working Heads)	1 set	Eye mask	1 pair
funnel	1	Glasses	1 pair
Power cord	1 root	Air strike	1

Chapter 3. Installation Instructions

3.1 Installation steps

Before unpacking the machine, make sure that the working environment meets the requirements of this equipment.

The equipment should be placed in an environment where there is no etching gas and little dust. Etching gases can damage the wires and electronics. Dust in the air can damage electronic components and adversely affect internal electrical

details. The temperature and humidity range at the place of installation of the equipment must comply with the established requirements.

3.1.1 Installing the machine

- Please place the device ¹2 hours to avoid damage due to high humidity during long-distance transportation.
- Unpacking the device , Check that all accessories are correct.
- Assemble its components and make sure all connections are secure.
- Fill the water tank with clean deionized water.
- Make sure all parts and accessories are securely and correctly connected, then turn on the unit and test the functions.
- and parameters.
- If all the above conditions are met, then the therapeutic procedure can be used.

3.1.2 Installing the handle

When the customer installs the handle for processing, please position the handle below the main unit so that ensure that gas can escape from the handle. Install the handle as described below.

1. Check the position of the connection box on the main frame (Figure 1).



picture1

2. Take the handle out of the packing box and take the head of the junction box (Fig. 2), and

Align the box with the connector on the main frame, make sure the contact pin is aligned with the corresponding position, turn the handle in the position of the box with the connector at the end of the handle and tighten it (Fig. 3).



Figure 2



Figure 3

Note: Be sure to tighten the connector, otherwise it may cause poor contact of high voltage, and burning of the contact terminals. In addition, the water injection connection is prone to leakage.

3. The end of the insert box is installed (Fig. 4))



picture4

3.2 Incoming water requirements and water circulation

Before each use or when turning on the machine, fill it with deionized water to ensure it sufficient level, otherwise add deionized water.

3.2.1 Water injection instructions

When the equipment is working, the ambient temperature should preferably be 15°C~30°C; Humidity should not be higher than 80% ;The treatment room must be kept clean at all times.

1. When filling the equipment with water, please open the water supply and overflow tap.



Overflow

Water inlet/outlet

2. Connect the white funnel connector to the water supply pipe as shown in the figure.

- When the water flows through the overflow hole, the water filling is complete.
- Once the water filling is complete, the water filling funnel can be removed. Press the stainless steel button on the white connector water filling holes to remove the water filling device from the water filling hole.
- After filling with water, do not tighten the overflow hole to ensure smooth water circulation.

Note: If it is pure deionized water, it is recommended that customers change the water once a month. When the operator changes the water, remove the drain cap and drain the water from the machine. Fill with new deionized water.

The draining sequence is the same as the filling sequence. Simply remove the funnel and place the filling tube into a container for receiving water.

3.2.2 Debugging the water cycle

After filling the equipment with water, immediately connect the power cord and foot cord. After completion connections, adjust the water circulation in the equipment. Before adjusting the water circulation, all cleaning heads must be connected to the plug box to avoid damage to the water pump during adjustment.

The stages of debugging the operation of the water circulation cycle are as follows:

- Before starting the equipment, make sure that the emergency stop switch is in the pull-out position. If the emergency stop switch is in the pressed state, press the emergency stop button to move it to the retractable state. Turn
- switch on the back of the unit to the "ON" position. Press the switch button, and the cooling system
- water circulation inside the equipment will start working automatically. Check if the water circulation in the equipment is normal.
-
- If there is no water leakage, water consumption signal, etc., let the device run automatically for more than one minute, and then turn off the power. Indicates good water circulation.

3.3 Treatment procedure

Note: When entering the working mode, do not point the laser head at people; it is necessary to point the laser head on the target being processed, and then press the controller pedal. Regardless of the presence of laser radiation, the head Laser therapy should not be directed at the operator or other persons not undergoing the procedure. Do not point the laser head towards the eyes.

3.3.1 Stages of treatment

1. Before starting treatment, the operator must obtain a detailed anamnesis to exclude possible contraindications. discontinue treatment of the disease and eventually perform a physical examination of the treated area.

2. Turn on the device and enter the treatment mode.

3. Set the treatment parameters according to the patient's condition. (Do not point the treatment head at anyone)

Press the working state setting button and switch to start treatment.

4. During treatment, observe the patient's condition and adjust the parameters according to the actual conditions.

5. During processing, the operator must take precautions to avoid causing harm.

6. After the procedure, turn off the power and apply cooling gel to the treated area.

7. To clean the nozzle, use a damp hot towel, and then wipe the nozzle with disinfectant using a cotton pad.

Carry out disinfection.

8. Finally, place the treatment head into the transport container and connect the device to the power source.

3.3.2 Announcement of Nursing

1. During the procedure, do not leave the nozzle on the surface being treated for too long.

2. For the treatment area, twenty-four Do not contact with water for 2 hours, avoid washing with cold water. 3-7sky.

3. Avoid hot and humid environments.

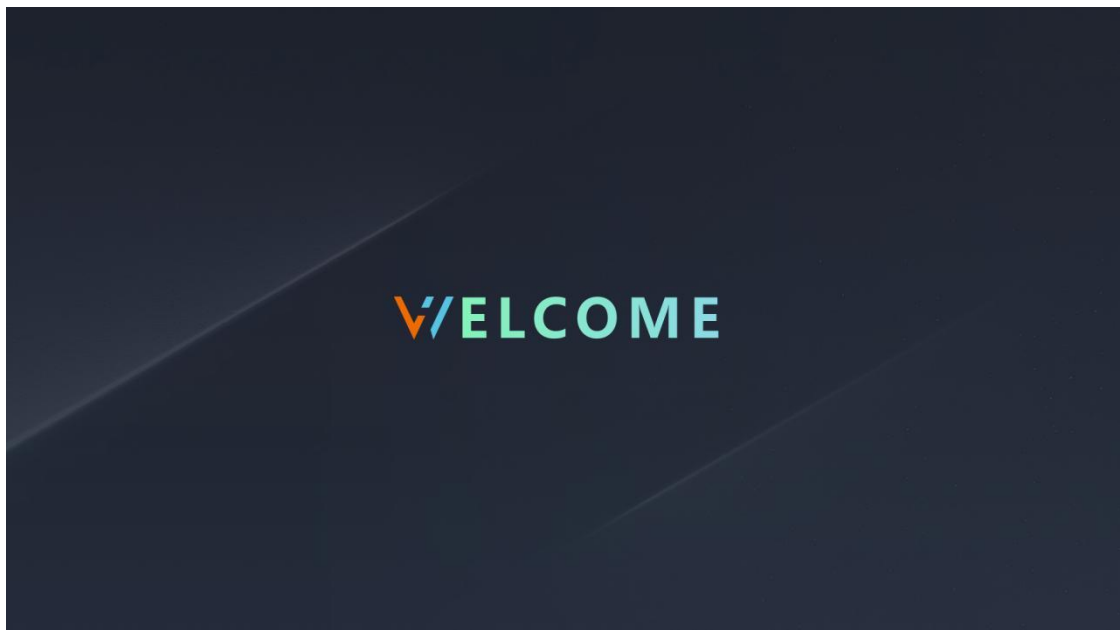
4. Avoid spicy foods, seafood and irritating foods; eat less light-sensitive vegetables (such as celery, radish, spinach, coriander, etc.).

5. Pay attention to sun protection.

6. It is prohibited to use highly effective cosmetic products for one month.

Chapter 4. Software Operating Instructions

4.1 Download interface

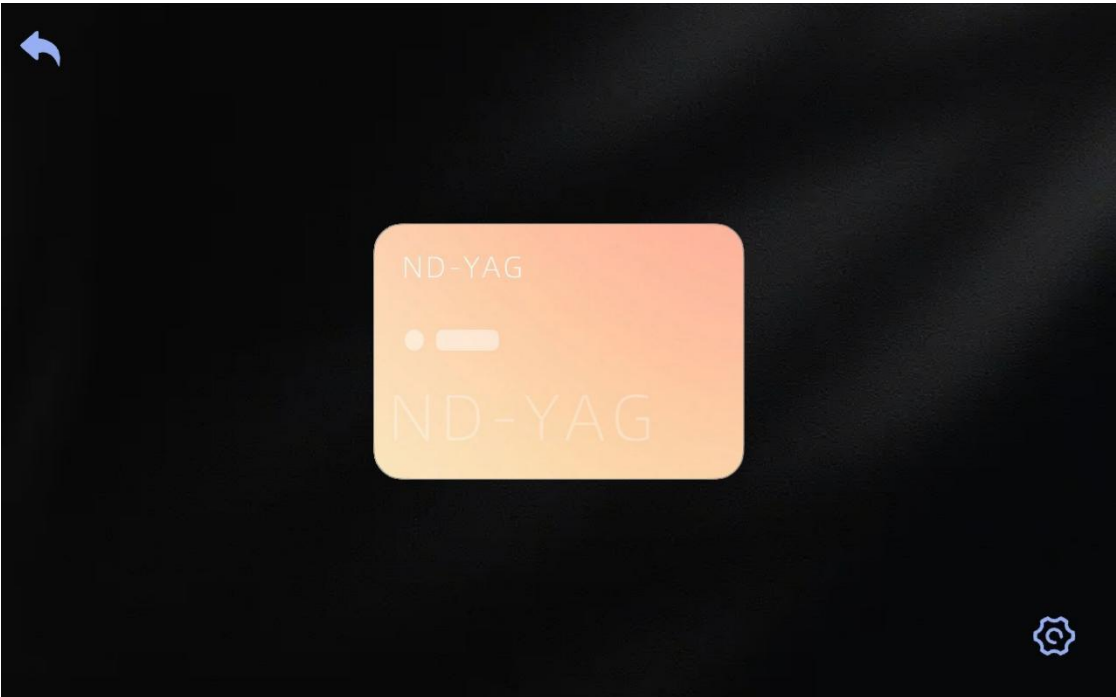


After the system starts up, the above startup interface will be displayed on the display screen. Click the startup interface.



Enter the function interface.

4.2 Functional interface



After the device enters the function interface, click  , you can choose ND-
 IAGOperating mode; press  , return to the startup interface; click  , Enter
 Log in to the system interface.

4.3Working interface

ND:YAG

Sound

Storage

Save

Lighting

Battery

Count

Welcome to 640nm

mJ

Hz

mJ

Ready

Recommended energy range

Scope	Treatent range	Wavelength	Energy	Frequency
Tattoo Eyebrow	Frecjkes dermal spots gray and	1064	300-800	5
Tattoo Eyeliner	black tattoos etc	1064	500-700	5-7
Tattoo Body	Carbon Spectra Peel	1064	500-700	5-7
Tattoo Red	Pigmented nevus , age spots	532	400-800	3
Carbon Peeling	Freckles	1064	300-800	5
Naevus	dermal spots	1064	500-700	5
Freckles	gray and black tattoos	1064	500-700	5
Age spot	ect	1064	500-700	5
Coffee spot	color tattoo removal , red eyebrows	532	400-800	3
Nevus Ota		1064	500-700	5

L/min

°C

mJ

Ready

Press ND-YAGAfter entering the functional mode, enter this interface and select the corresponding treatment parameters in accordance with the patient's current condition.

In the middle of the screen is the recommended energy range (recommended energy range), you can set appropriate parameters according to different processing details and required cooling mechanisms;

Click on the screen  , you can choose different wavelength parameters, the parameters are divided into four good:532nm,755nm,1064nm,1320nm.

Select the energy size and tap on the screen.  Left and right icons can be

To configure the settings, follow these steps:

Wavelength parameters (nm))	532	755	1064	1320
Energy range (mj))	50-500	100-1000	100-1000	100-1000

Select the frequency and tap on the screen  Left and right icons can be

To set the parameters, the parameter range is: 1-10Hz;

choose  , click the snowflake icon on the screen to set the cooling level.

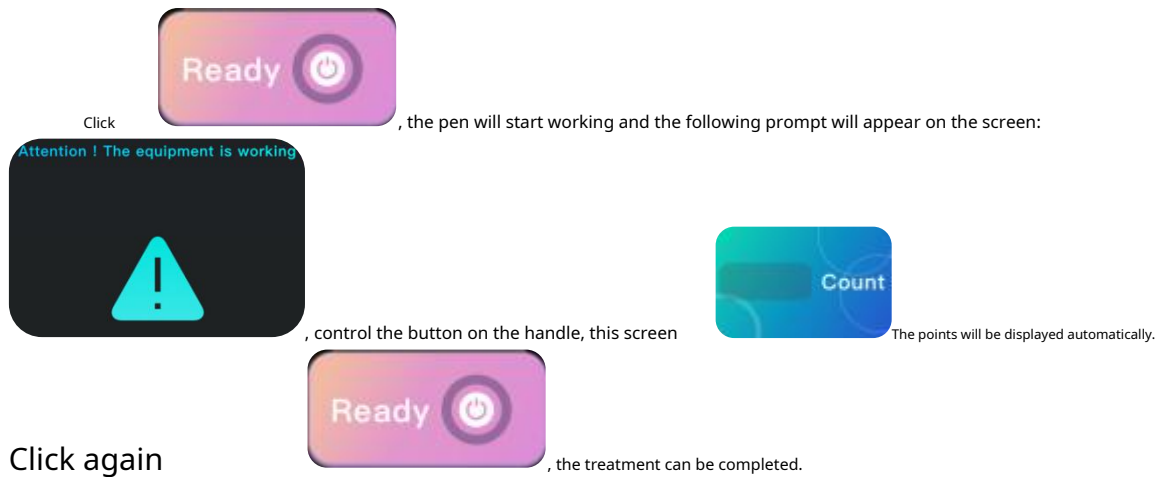
General5There are several gears to choose from;

This screen  Select the volume mode. You can select the default volume or mute the sound.

Mode;

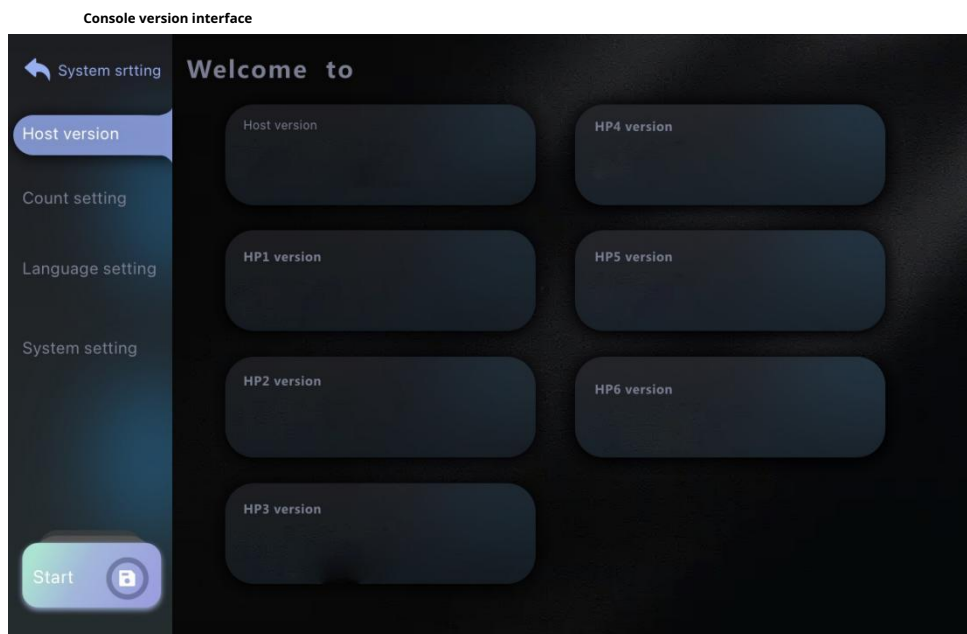
choose  , you can save the settings you have made, click  You can call directly

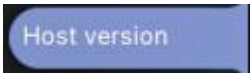
The last saved data is convenient to use;



4.4 User settings interface

The user settings interface is designed to confirm settings with suppliers. Customers can view the relevant data, but do not have the right to change it.

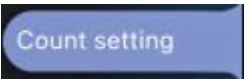


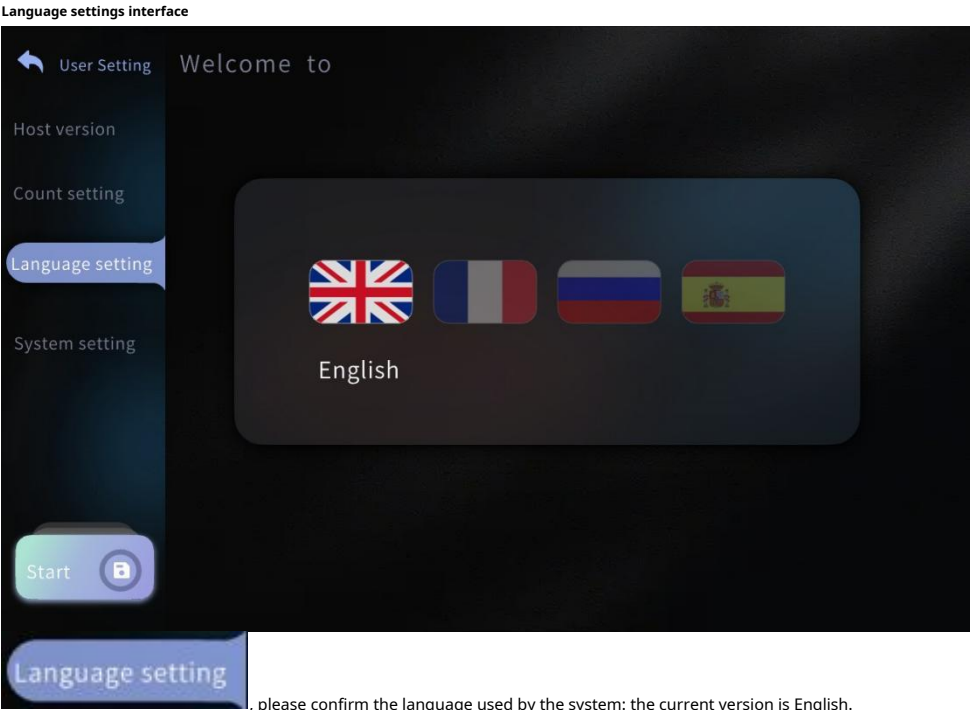
choose , confirm the host version, Host version software version;

Version HP1 For information related to the pen.

Counter setup interface

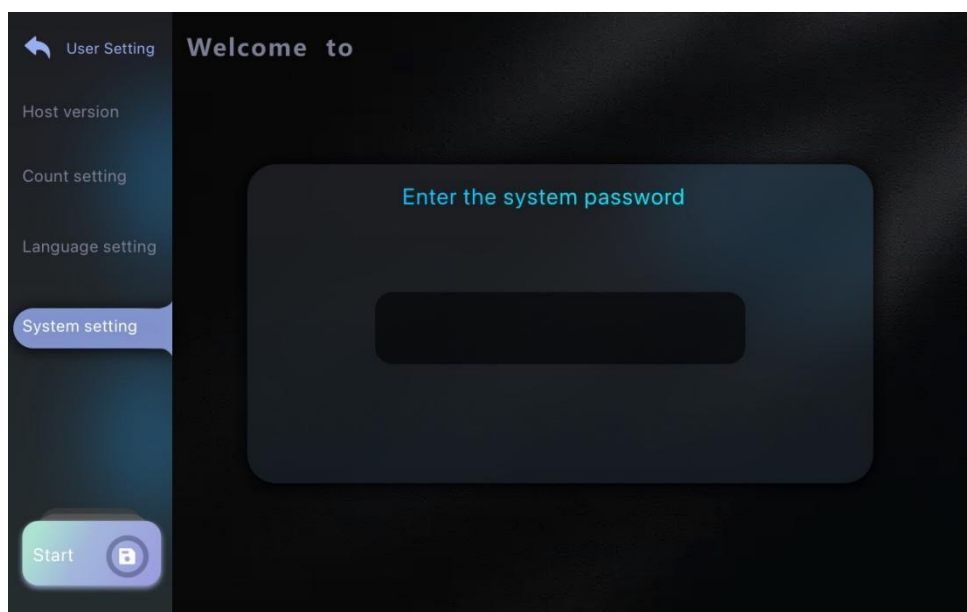


choose  , hand carry-on baggage1Displays the remaining number of times the handle is currently counting.



choose  , please confirm the language used by the system: the current version is English.

System settings interface



choose  , confirm the system settings. This interface password, subsequent interfaces and

To avoid any mistakes on the part of customers, all parameters are set by the supplier and customers have no right to change them.

change.

Chapter 5 Equipment Maintenance Instructions

Note: Maintenance and repairs must be performed by qualified personnel. To avoid

To avoid electric shock, do not open the housing.

5.1 Cleaning the host

After using the machine daily, turn off the power switch, unplug the power cord from the wall outlet and

Wipe it with a damp soft towel. Clean the console.

5.2 Cleaning and replacing the treatment head

Clean the crystal part of the pen in a timely manner after processing. During processing, some pigment particles

hit the crystal, which reduces the laser output energy. It is recommended to use lens cleaning paper or

anhydrous alcohol. Each pen is designed to last. At the end of its life, customers are advised to

Replace the handle with a new one. Contact your dealer or the equipment manufacturer.

5.3 Troubleshooting the system

Malfunction phenomenon	troubleshooting
No image on screen	Check the wires.
	Check circuit breakers and fuses.
	Please check the power switch.
The switch button on the handle does not respond, the key	Check if the power switch on the back of the device is turned on. If it still
No answer	If the fault cannot be corrected, contact your dealer or the equipment manufacturer.

The system could not be initialized.	Check the power supply.
Low energy output or no laser radiation outside	The voltage is too low and the pen cannot work properly.
	Check if there is any dirt on the laser reflector. If so, please clean it.
	clean.
	The inside of the handle is damaged. Please replace it with a new one.
	Disassemble the handle and check if the head reflector is damaged.
	If the handle is too hot, turn off the machine and let it cool for 30 minutes before using. Then use it again.
	Please check the pen for leaks.
The treatment tip fell out of the holder.	Check if the handle is damaged. If so, replace it with a new one.
The output energy of the treatment handle is too low	Check if there is any dirt on the crystal. If there is, clean it.
	If the handle is hot, turn off the machine for 30 minutes.
	Please check if the crystal head is in good condition and there is no damage on it. If it is damaged, Please contact your distributor or equipment manufacturer.
The output energy of the treatment handle is too low	The pen head has reached its service life. Please contact your distributor or Equipment manufacturer.
The laser transmitter is broken	Please contact your distributor or equipment manufacturer.

5.4 Signaling

Warning symbols	meaning
 Notified	Indicates that improper use may result in personal injury or property damage.
 warning	Indicates that incorrect use may result in injury.
 Danger	The equipment contains high voltage components and high voltage output terminals that may present high voltage hazard.

5.5 Contraindications

1 People with the following symptoms are prohibited from using 1) Those who have implanted pacemakers or pacemakers or who use electrocardiographs; 2) Those who use artificial bones; 3) Patients with silicosis; 4) Patients who are intoxicated or have a high temperature; 5) For patients with mental illnesses and epilepsy, who are more sensitive; 6) Patients with severe arterial hypertension and severe cardiovascular and cerebrovascular diseases 7) People with foreign metal bodies in the body, pregnant women, patients with cachexia and patients with malignant	 Danger we; high-quality tumors;
2, Please use under the guidance of professionals in the following situations 1) Women who are menstruating;	

2) child 3) Blood clotting disorders or injuries, inflammation, skin diseases, skin infections; 4) People who feel numbness and do not react to hot or cold 5) People with weakened immune systems, a history of scarring or illness 6) Areas of the body that have undergone cosmetic surgery and have artificial fillers.	warn
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Note: It is recommended to consult a doctor to determine the appropriateness of use.