Diode ND YAG Laser Elight Treatment System 3 IN 1

User Manual

Version:21903008RD003

Dear customer,

Thank you and welcome to choose our products of VIVA Concept Technology Co.,Ltd To ensure proper use our products, we recommend that you read this manual carefully prior to operate. We believe that we can offer you satisfied service.

We can offer technical support for you at all times.

Please note:

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If there are any questions, please contact us!

Pay Attention to Warnings, Cautions and Notes

WARNING	Warning means that not following instructions properly or ignoring
	them completely can endanger patients and/or operators.
CAUTION	Attention means that not following instructions properly or ignoring them completely can damage the unit.
NOTE	Notes provide additional information

Warning

A Read the user's manual prior to operation!

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Chapter 1 Equipment overview

1.1 Overview

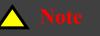
140P laser platform is a combination of Diode laser ,IPL Elight ,Nd yag Q switch 3 techs in one systems.It is most stable and powerful and effective laser platform.

Diode Laser Hair Removal is the safest and fastest at the present. However, the

primary chromophore for laser hair removal is melanin residing in the hair shaft. Secondly, melanin residing in the inner and outer root sheath may also act as a secondary chromophore. Based on selective photothermolysis principle, through specific wavelength, penetrate epidermis into dermis, optical energy was absorbed and translated into heat energy with restraining hair follicle tissues, and produce photothermal effect. It takes laser energy in hair follicle with rich in melanin, surrounding tissues absorb less even no energy, reach to restrained melanin of hair follicles and remove hair. Meanwhile, don't hurt around tissues and virtually pain-free remove surplus hair; eventually, reach to permanent Hair Removal.

Q-Switched Nd: YAG adopts the latest Q-switched model, makes the cure time of laser to be smallest, avoiding damage to the skin. And the skin tissue absorbs the high energy of the certain laser wavelength in instant, then expands and explodes to tiny thing easily. Then licked up by the cell and be got out of the body.

E-light The Intense pulsed light (IPL+RF) is a type of intensive, broadband, coherent light source which has a wavelength spectrum of 420nm -1200nm. The light-based component delivers optical energy that is absorbed by specific chromophores in the skin, which is converted to heat, according to the principle of selective photothermolysis. So E-light's light affects pigmentation, broken capillaries and hair follicles. In the meanwhile, E-light also give a boost to collagen production, which can make the skin more youthful, radiant and bright and remove fine wrinkles.



Always start with treatment from lower setting and increase energy gradually to avoid side effect.

1.2 Features

1) Permanent hair removal of all pigmented hair on all skin types, contains tanned skin all over the year round.Tattoo removal and pigmentation removal ,carbon peeling skin rejuvenation

- 2) More lower consume cost for the material, which can use for a long time.
- 3) Enhanced cooling system.
- 4) Customized to fit your practice.
- 5) Original technology, virtually pain-free.

1.3 Therapeutic range

The treatment of hair removal such as the cheek, lip, beard area, neck, back, chest, armpit, arm, bikini, leg, etc.



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Name	Note
True color LCD touch screen	It shows the operational settings and adjustments
	as well as system status on the screen.
Emergency switch	The emergency switch is used to shut off power
	supply in case of any emergency.
	Notice: suddenly pressing the emergency switch
	may damage the components of the system,
	therefore, it should be pressed under emergency.
Key switch	It is used to turn on/ off the power supply.
	(rotating the key in a clockwise direction, it will
	shut off the device, anticlockwise, the system will
	be turned on).
2) Back view of the machine	
2) Back view of the machine	Foot switch Breaker

1.5 Contraindications

- 1. The patients with the keloid history and photosensitivity diseases.
- 2. Having the history of skin infections or herpes simplex in the treatment region.
- 3. Within 6 weeks, other ways for hair removal had been used.
- 4. The patients who are allergic to hydroquinone drugs or other bleaching agents.
- 5. Pregnant, menstrual women and the patients with the malignant tumor.
- 6. The patients with the history of taking Lsotretinoin within 6 months.

Notice

Hair removal equipment has no significant on the white hairs, the person with suntanned skin should be used with caution.

1.6 Accessories

After you received the machine, please check all the parts of the machine according to the following Packing Contents List at first, and contact us immediately if you find any lost and damaged parts inside the packing.

Name	Quantity	Model/Code
Handpiece	1	Diode laser
Handpiece	1	Nd yag laser handle
Handpiece	1	E-light handle
Eye-protection glasses	1	laser
Goggles	1	laser
Eye-protection glasses	1	IPL
Goggles	1	IPL
Power cable	1	EN
Foot pedal	1	Foot switch
Funnel and tube	1	

Handpiece holder	1	
Key	2	2801
Filter	3	415/515/645-1200nm
Holder screw	2	
Power cable	1	

Warning

Use offered by manufacturers or suggested accessories

1.7 Technical specifications

Name	Value
Power consumption	3500W
Diode Laser wavelength	755nm/808nm/1064nm
Spot size	12*20mm
Pulse width	10-300ms
Energy density	5-120J/cm2
Pulse frequency	1-10Hz
Cooling mode	Close-cycle water cooling; contact cooling for
	the laser head is 0-4 $^{\circ}$ C
Electrical requirements	110V ± 10%, 50/60Hz, 220V ± 10%, 50Hz
Yag laser wavelength	1064nm/532nm/1320nm
Spot size	2-10mm
Energy	10-2000mj
Pulse frequency	1-10HZ
E light	
Capacitors	2
Handle spot size	18*50mm

Max IPL energy	60J
Width pulse	15ms
Pulse Delay	Max 50ms
RF power	100w
RF energy	50J
Weight	55KG
Dimension (L*W*H)	450×430×110(mm)

Chapter 2 Safety

It is designed for safe and reliable treatment when you use it properly.Only VIVALaser corporation authorized personnel may service the system, authorized personnel and maintenance technician and other users should fully understand the safety information provided in this chapter.

2.1 Responsibilities of user

Before each treatment, the user must check the functional performance of the device in order to rule out any risk to patients or someone else. If the device is used in conjunction with peripheral units, the User's Manuals for the peripheral units must also have been thoroughly read and understood.

1) Safety precautions

The following are its parts of safety precautions:

A. Upon switching on the system, the processor first undergoes a self-diagnostic program. The processor will then examine the system automatically and continuously during the entire treatment procedure.

B. Use the Emergency Stop Switch (red button) to turn the power off in case of an emergency.

C. Remove the Key when not in use to prevent unauthorized access to the device.

2) Safety warning /

- Don't use the equipment with other electrical equipment.
- Verify room voltage with supply area of the equipment are consistent, Don't use alter-mating current more than 240V.
- Don't operate the equipment in the high temperature or humidity place, avoid cause electric shock or fault.
- Ensure that the equipment is connected with power supply prior to use.
- Prior to use, Ensure that connection is good between circuit and accessories.
- Make sure that all trained personnel are familiar with the system controls and have a good knowledge of how to shut down the system instantly.
- It's better to operate the equipment in the dry place, Don't use it outside the room.
- Only use our company to provide matching accessories.
- Please turn off power supply after use it, before cleaning and maintenance.
- Don't use the equipment if you are uncomfortable.
- Don't use the equipment if skin have any uncomfortable or hurt.
- Pregnant women are forbidden to use it .
- Never use the modified or remould-ed equipment

3) The Environment Requirements

Working temperature scope	+15-30°C
Relative humidity scope	30%-80%
Atmospheric pressure barometer	86Kpa-106Kpa
Power supply	220V/AC±10%, 50/60Hz,10A;
	110V/AC±10%,50/60Hz,20A

2.2 User training

The machine requires special expertise and care in its handling and using. Only persons who have received appropriate handling training on the device, taking into consideration of operating instructions, and who are familiar with its therapeutic effect and possible risks are permitted to use the laser unit.

Untrained or unqualified operating personnel are not permitted to operate the machine under any circumstances whatsoever. VIVA Concept Technology Co.,Ltd offers comprehensive training courses for the P-diode laser. Each user must have read and understood the User's Manual completely prior to starting the machine.

Patient's safety mainly depends upon a well-trained operators and a suitable treatment room. The attending operators must inform the patient all inherent risks with the use of this device. The success of the treatment depends largely on the user's experience and knowledge of the biophysical connections.

2.3 Optical safety

All personnel (including the patient) must wear the protective glasses; opaque eye shield for the patient and filtered 200nm – 1200nm for the operators. The goggles / glasses provided with this unit are manufactured specifically for the 400nm to 1200nm wavelength produced by the unit. Do not substitute treatment / safety glasses with other types of tinted eyewear which may not meet the specific safety requirements of the unit.

Note: Gauze, eye-shield and tarsi are all effective in the protection for the eyes.

WARNING

This device may cause thermal injury if used improperly. Medical personnel must familiarize themselves with the devices safety instructions and operational procedures prior to use.

2.4 Electrical and equipment safety

The unit uses220V \pm 10%, 50/60Hz or 110V \pm 10%, 50/60Hz single-phase power supply. Its capability should be no less than 2000W. Use a 10A (220V \pm 10%, 50/60Hz); 20A (110V \pm 10%, 50/60Hz) single-phase three-wire outlet at an international level.

This device connects the ground through three lines, connecting the ground well is important to the operation safety.

The high voltage inside the device is very dangerous. Electricity may remain in some components, therefore, It is not advised to open the cover. This will result in an electrical shock.

Do not open the control or rear panel even if the unit is switched off. Only authorized personnel may repair or maintain the unit. Tampering with the unit will void its warranty.

2.5 Safe Classification of equipment

NO.	Mark	Specification
Label 1		Production information
Label 2	S/N	Sequence Number
Label 4	***	Product Address
Label 5	*	Protection
Label 8		Warning and Notice. Please read
		user's manual in detail

Chapter 3 Installation

Warning

Don't modify the equipment without manufacturer's authorization

3.1 Installation Requirements

The equipment should install the atmosphere of non-corrosiveness gas, dust and fewer particles, corrosive gas can damage to electron, optical components, connection wire. More dust and particles can damage filter, electron components. Temperature and humidity of installation should conforms to the requirements of function parameters.

Procedure:

Before unpacking the machine, ensure that working environment conforms to the requirements of this section.

1. Unpacking the device.

2. Staying the device for 12 hours, in order to avoid destruction by high humidity during long distant transportation.

3. Assembly of its components and ensure that all connections are firmly in place.

4. Fill the water tank with distilled water only.

5. Installation treatment handpiece and connect the power supply

After unpacking the parcel, before installing the device, *ensure that the* device keeps the cool and dry place for 12 hours, in order to avoid destruction by high humidity during long distant transportation.

1) Location Requirements

The device should be positioned in an area with adequate ventilation away from devices that produce heat (i.e. refrigerator).

2) Electrical Requirements

Before the machine leaves the factory, it has already been marked the local rated voltage according to the customers' request. It corresponds to the electricity

requirement as follows:

AC220V±10%, 10A; 50/60Hz; or AC110V±10%, 20A, 50/60Hz Input electric current can't have momentary change, electric voltage or electric current peak, sink.

It is recommended that this device use a dedicated power supply with its own circuit breaker.

3) Environment Requirements

Air quality: No caustic particle (such as acid) in the air, which can damage the electric wire, the electric component and optical component surfaces. The dust in the air should be as little as possible, or it can absorb the energy of light and be heated up.. Metal particles could damage the electric component.

Temperature: The diode laser system has an optimal working temperature between 15°C~30°C. Relative humidity should not be over 80%. The working power of this device is about 2 KW. It would be best that the P-diode laser unit be installed in an air-conditioned room where the relative humidity and temperature can be maintained at optimal levels.

3.2 Installation

1) Connect the handpieces with machine





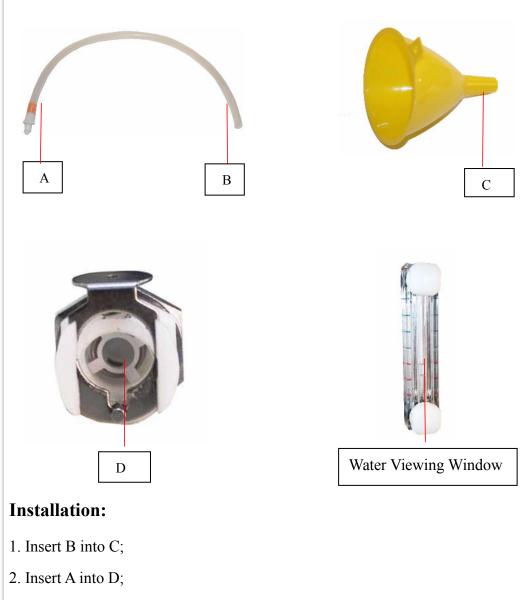
A B First : make sure the contact pins are aiming at corresponding position. Second: Push left side and then right side

If you need unplug the handpiece, please Loosen the screws, and press the two gray buttons simultaneously, then unplug the handpieces.

WARNING

This is essential to be sure to tighten the screws, or high voltage is easy to poor contact, contact terminal will be burned off. In addition, easily caused leakage of water injection connector.

2) Fill water



3. Fill water;

At the same time, observe water viewing window, when water reaches the water viewing window of 80%--90%, Stop filling water.



Use purified water or water without hydrogen, strictly prohibited mineral water
 Replace water every month.

3.Only personnel trained by the distributor are authorized to maintain the inner workings of this device. Any manipulation to the system may cause damage to the device and will void its warranty.

3.3 Equipment safety (Move)

If the device is to be moved within the general area.

- 1. Turn the device off;
- 2. Put the treatment head on the support;
- 3. Pull out the power cable;
- 4. Relocate the unit (Avoid tilting the device).

3.4 Transport and Storage Conditions

1. The cooling water in the instrument should be let out and cleaned during storage and transport.

2. The device should vertically be installed in the outer packing box during transport. The instrument is fixed on the base >550mm $\times 490$ mm $\times 430$ mm so that the wheels of the instrument will not glide.

3. There is waterproof and soft gasket material in the outer packing box of the instrument and handle with care which the instrument should be supported by natural damage. The markings such as "Handle with care", "No wetness", "up" should be on the box.

4. Environment Requirements

Working temperature scope $:+15 \sim +30^{\circ}C$

Relative humidity scope: 30%-80%

Atmospheric pressure barometric : 86kpa – 106kpa

Power supply: 220V/AC±10%, 50/60Hz 10A; or 110V/AC±10%, 50/60Hz, 20A

Chapter 4 Operation

4.1 Software operation explanation

WARNING

1. WARNING: High voltage: please ensure that all panels are secured prior to operation.

2. Place the treatment head on its support when on standby mode.

3. All personnel in the treatment room must wear the protective filtered glasses supplied.

4. Make sure the patient is wearing the opaque protective goggles prior to treatment.

5. Avoid looking directly into the intense light during the treatment even if you are wearing the protection glasses.

6. Do not point the treatment head outside the treatment field.

1) The welcome interface.



2) Treatment interface

Icon	Name	Function
Ŀ	Date and time	Set date and time
e)	Vioce setting	Turn up and down voice
A	Language set	Set your language
	Function update	No using for now
\$	Engineering mode setting	Need password go into
DL	DL	Touch go into treatment parameter setting
St.	100.774	

Press, , System enter into Laser hair reduction treatment interface.

ΙΙΙΙ	II IV V
J/cm ²	*****
ms + -	С
Hz + -	HRS HRM
SEC + -	5 📕 O

Ic	on	Name	Function	Remark
7		Energy density	Show energy density	The range of energy
_J./c	rm²	display		density is 10~120J/cm ²
		Pulse width	Show pulse width	The range of Pulse width
Jm	IS L	display		is 10-300ms
	Г	Pulse	Show pulse frequency	The range of pulse
Hz		frequency		frequency is 1~10HZ
		display		
1	1	sec	Setting treatment	1-30s adjustable
SI	5		time/shooting	
C	-	Clear	Clear the current	
			treatment times	
J		Mode 1	Memory data 1	
				·

-			
П	Mode 2	Memory data 2	
Ш	Mode 3	Memory data 3	
IV	Mode 4	Memory data 4	
V	Mode 5	Memory data 5	
5	Return	Return to previous interface	
	Save	Save setting parameters	
Ö	Standby/Ready	Switch to standby /ready	
e.	Temperature of water tank Icon	Show the temperature of water tank	Its temperature alarm is
Cm ²	Water flow display	Show the condition of water flow at all times	Its alarm icon is
举	Cooling level	Choose cooling level	Cooing level1-5 adjustable
HRS	Intermittent	Set timer 1-30s to	
	shooting mode	limit shooting time	
HRM	Continuous	No limited continuous	
	shooting mode	shooting	

	Nd:YAG			Image: A marked state in the
J/cm²	+		Ι	II III IV V
Hz			С	
+			1	1064 nm
lcon	Name	Functio	on	Remark
Ι	Pre-store Choose parameter select therapy button parameter			Up to pre-store 5 groups parameters
		-		
	Power	Display power	setting	The range of power is 1-26J/cm ²
J-molt.	Power Frequency		setting	The range of power is 1-26J/cm ² The range of frequency is 1-10(HZ)
10	Frequency Adjustment	power Displays frequency Setting		
	Frequency Adjustment button	power Displays frequency Setting parameter+		
10	Frequency Adjustment button Adjustment	power Displays frequency Setting parameter+ Setting		
10	Frequency Adjustment button	power Displays frequency Setting parameter+ Setting parameter-		
	Frequency Adjustment button Adjustment button	power Displays frequency Setting parameter+ Setting parameter- Save	setting	

0	standby/Ready button	Standby/Ready situation	
650000	Max shoots	Shoots decrease by shooting	
0	Counter	Record one time shoots using	
3 41	The icon of the water flow alarm	Shows the current water level	The icon of the water flow alarm
8 47	The icon of the temperature alarm	Shows the water temperature	The icon of the temperature alarm
*	The icon of simmering instructions	Shows the current situation of simmering of the device	The icon of simmering instructions
5	The icon of charging	Shows the need to charge the device	The icon of charging

Treatment Mode

Change the tips of 1064nm and 532nm of the hand piece to do the different treatment. For example:

The <u>1064 nm</u> is mainly used for treating the black and blue pigmentation, The <u>532 nm</u> is mainly used for treating the red and brown pigmentation The <u>1320 nm</u> is mainly used for carbon peeling skin rejuvenation.



Elight mode

Touch Elight icon

				-	202	
I SET	Г				*	
HR	SR	PR	VR	AR	WR	
	1	5	/	(4)		
A					DA	
	M		ž	-		
		T I				
		T	*		0	
LAN						

Icon	function
HR	Choose HR for hair removal
SR	Choose SR for skin rejuvenation
PR	Choose PR for pigmentation removal
VR	Choose VR for vascular removal
AR	Choose AR for acne removal
WR	Choose WR for wrinkle removal
Del.	Choose gender
	Choose skin type
TH	Choose hair density
The second se	Choose hair color
-	Choose hair thickness
	•

₩ HR	
	+ - J/cm ² mm + - , J/cm ² + - , + - , - ,
	Pulse setting 1-15 number
ms	Pulse width 1-15ms
] ms	Pulse delay1-50ms
Ims	Time setting 50-2000ms
	Press to set one most used parameter
	Press to save one most used parameter
J/cm²	Advised energy range
nm	Advised filters
Jim"	Energy settings
業	Cooling levels settings
	Total left shoots
С	Today shoots

5	Go back
Ι	Handle icon
Ö	Ready /simmer handle

Warning: before application or on operation, if not using control device and regulating device in the laser system or conducting operation according to the specified methods, dangerous exposure will be produced.

Chapter 5 Clinical guidelines

5.1 Treatment must know

CAUTION

Prior to treatment, please read this chapter carefully.

 Prior to treatment, consultant should comprehensive consultation for specific conditions of customers, within need of the treatment areas, do the test for customers.
 Pregnant, epilepsy, patients with mild measles, new skin-burns, capillary broken through chemical treatment, these are supposed to conform to suggestions to treat. 3)epidermis scrape hair in the treatment area and clean skin surface with neutral detergents, don't use any make-ups.

4) Using lots of gels to smear skin surface of treatment parts(it's the best to use import or specialize gels, effect will more obvious).

5) Treatment head aiming at skin of treatment area during the treatment, touch skin surface slightly, must be maintain the cleaning of treatment head.

6) It is normal that skin surface will occur mild red at times, it will disappear automatically for a few hours after the treatment.

7) In order to future use, record treatment parameters.

8)Within 24 hours, don't use any make-ups, avoid sunlight exposure and strong movement, adjust diet, smear sunscreen when go out within one month.

WARNING

Only professional personnel with appropriate training may operate this device. Unauthorized use or abuse in the hands of a novice may cause thermal injury to oneself or others and may cause irreparable damage to the unit.

5.2 Preoperative Preparation

1. Inquiry

- 1. Avoid sunlight / artificial UV light exposure 3-4 weeks prior to treatment.
- 2. Discuss current treatment plan.
- 3. Clarify and confirm patient's expectations.
- 4. Rule out any conditions contraindicating this treatment.
- 5. Sign Written consent of customers.

2. Explanation

1. Discuss the possible number of treatments required for treatment.

2. Inform the patient regarding the possibility of a stinging/ warm sensation during treatment.

- 3. Inform the patient regarding the possibility of transient erythema.
- **3. Optical Protection**

1. The patient should wear the protective opaque eye goggles.

2. The Physician should wear the protective filtered translucent eye goggles.

The treatment room should be clearly marked to prevent unnecessary access by other personal during the procedure.

5.3 Post-operation Care

1. Prevent sun exposure

Patients should use high factor sunscreen after operation one month, and protect treatment parts from the sunlight, sun exposure may increase regeneration rate of melanin and produce hyperpigmentation.

2. Avoid hot baths, using powerful deodorant/antiperspirant within 24 hours after treatment, don't swimming in the high chorine pool.

3. Make up

Most doctors allows patients to use make-ups after operation, once patients find split or infection and inform doctors at once, in addition, stop make up.

Attention

A.Please infuse distilled water ,exchange water every 3month.

B.When shoots on the screen is gone out, change inside water filter

Chapter 6 Maintenance

This chapter describes the regular maintenance that can be performed by the owner authorized personnel must do any other maintenance work not described in this chapter. System troubleshooting is also enumerated in this chapter.

A WARNING

Before any maintenance work turn the power off and unplug device. Failure to turn off the power may cause an electric shock, damage to the device and bodily injury. Never tempt to remove the back panel or device casing. Unauthorized tampering with the internal system of the devices will automatically void the warranty.

6.1 Cleaning the Main Host

The main host casing or body must be clean with a soft damp cloth. A mild detergent may be used but be cautious, do not let the liquid sip into the machine.

6.2 Refilling the Water Supply

Observe the water level through the water viewing window at the rear of the unit. The water level is best maintained within the midpoint of this window. Distilled water can be added by following the instructions seen in "Section3.2 Installation".

6.3 Electronic compatibility(EMC)

MED-140P conforms to the testing of EMC.

6.4 Product shelf life

The product shall be used in the period of validity, and its shelf life can be achieved 5 years.

6.5 Environmental protection

When at the end of the service life of equipment accessories, please dispose properly in line with local environmental laws and regulations.

6.6 System trouble shooting

Phenomenon	Reason	Solution
	 1.Pseudo connection or missed connection of power cable. 2.Circuit breaker (electrical outlet switch), key switch or emergency switch is off. 	 1.Make sure that the system is properly plugged to the power outlet and that main voltage is present in the socket. 2.Check if Circuit breaker (power outlet switch), key switch and or
No power	3.Inner electric apparatus with open circuit.	emergency switch are on.
	1.Inner system with water loose or damp.	1.Make sure that Inner system with no water loose or damp, then turn on.
	2.Inner electric apparatus with short circuit.	2. Take out the power cable, while keep all the switches on, and check if the input pins of power outlet with
Trip out or		short circuit? If yes, take out the input
fuse burning	3.Current overload due to lower voltage or unstable voltage.	 pins of power supply, subsidiary power supply one by one, then check if it with short circuit by multi-meter. If it is defective, replace it. 3.Please try to use the voltage stabilizer, or change a big fuse.
	 Water tank with no water. Handpiece or filter 	1.Add enough water into the tank2.Insert the silicon tube to the handle connector, instead of handpiece plug
Water flow	jam/block or silicon tube bended.	and play. If the water flow is normal, then there is sth block in the
alarm	3.Water pump or magnetic valves broken.	handpiece, you may send back it for repair; if the water flow still alarms, it may due to inside silicon tube bended.
		Open the system and check it. 3.Measure the input voltage of the pump and the magnetic valves, if no

		voltage, check the power supply circuit; if with normal voltage, then the water pump or valves is broken, just change or repair it.
Water tank temperature alarm	 Not enough to support sound cooling due to less water in the water tank. Continuously working for long time with high energy. The environmental temperature is too high Radiator of the refrigerator with poor ventilation. 	 Fill enough water to the tank Stop the system for 15 minutes and then restart. Lower environmental temperature and then restart. Clean the radiator, make it with good ventilation.
Magnetic door contact alarm	 1.Magnetic door contact with open circuit or with wrong connection to the footswitch. 2.Control board or magnetic door contact malfunction. 	 1.Keep the magnetic door contact with the right connector, and make it with closed circuit. 2.Remove the magnetic door contact detector from the control board, then connect the No.5 and No.6 pins frequently by conductive metal. 1) if the door contact icon changes on the screen, thus the magnetic door contact or related circuit turns to malfunction. Then take out the door contact wires, and keep it's well connected with no open circuit, or just change the door contact. 2) if with no change, just change or repair control board.

Low energy	1.Output lens/mirror is	1.Clean the output lens/mirror.
	dirty	2.Change the new emitter/generator.
	2.Laser emitter /	
	generator is oxidized	
	1.control board	1.Restart the device, if the system is
	malfunction	normal, then you may use it again;
Current		If with the same problem, it may due
overload	2. Handpiece	to control board malfunction, just
protection	malfunction	change or repair it.
		2.Check if the entire handpiece is
		normal or not, if the emitter/generator
		with open circuit, then change it. Also
		check if the control board is normal or
		not, if yes, just send them together for
		repair or change.