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# **Q-Switched Nd: YAG Laser Tattoo Removal Machine**

## **Model: Titan 3 User Guide**

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Thank you and congratulations on your choice of the LS8

The serial number is located on the nameplate located on the rear of the device; please record below for future reference:

Model Number:	
Serial Number:	
Purchase Date:	
Purchased From:	



**Before Installing or Operating this equipment, please read these instructions carefully, and keep near the device for future reference.**

CAUTION: Operating machine when the water tank has no water or has not enough water is absolutely prohibited!  
NEVER TRANSPORT the Laser unit whilst water is in the tank.

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## **Chapter 1 - Introduction of Laser Eyebrow & Tattoo Removal Equipment**

### **1.1 Treatment Principle:**

The Q-Switched laser delivers specific-wavelengths of light extremely quickly (in nano-seconds) at a very high energy. These pulses are selectively absorbed by the tattoo pigment, shattering it into tiny fragments small enough for the body to recognise the particles as a foreign object, and over the next several weeks some of particles (in shallow cuticle) are discharged from the body and the other part (in deep tissue) are absorbed and digested by the body's macrophages and removed out of the body by the immune system. Since the specific wavelengths used can only be absorbed by pigment particles, no lasting injury happens to normal skin and normal tissues.

Q-Switch laser systems can now remove all types of tattoo with little or no scarring. Professional and amateur tattoos, as well as traumatic tattoos, resulting from accidents, are treated successfully.

### **1.2 LS8 Introduction:**

**Model Name:** LS8

**Product Type:** Solid State Q-Switched Nd: YAG Laser



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## 1.3 Device Structure:

The LS8 Q-Switched Nd: YAG Laser Treatment System structure consists of the following units:

### 1.3.1 Power Supply:

The power supply is assembled in the main unit.

### 1.3.2 Laser Hand Piece:

Laser Hand piece has two interchangeable treatment tips;

1 x 1064nm

1 x Frequency Doubling KTP for 532nm

### 1.3.3 Control Panel:

The Control Panel consists of:

- (1) 8" Colour touch screen
- (2) The power on/off key switch
- (3) Emergency shut off button

### 1.3.4 Power Controls:

**The Key Switch:** Use the key to turn power on or off. Remove key and keep safe when not in use

**Emergency Button:** Press the red emergency button to shut machine down and cut power supply immediately. Pull button out to restore power.

## 1.4 Technical Specifications:

<b>Laser Type:</b>	Solid State Q-Switched Nd: YAG
<b>Wavelength:</b>	1064nm & 532nm
<b>Spot Size:</b>	1~8mm
<b>Width of Pulse:</b>	3.5ns
<b>Maximum Energy:</b>	1500mJ
<b>YAG Bar Size:</b>	ϕ 7
<b>Repetition Rate:</b>	1-10Hz adjustable
<b>Xenon Lamp size:</b>	65mm
<b>Operation Interface:</b>	8" colour touch Screen
<b>Dimension:</b>	45 x 34.5 x 29.5cm (L*W*H)
<b>Net Weight:</b>	9.75kgs

## 1.5 Wavelengths

The laser has two interchangeable treatment tips, each offering different wavelengths: 1064 nm & 532nm.

**The 1064nm** is for treatment of blue or black ink pigment in the skin, this tip is slightly shorter and has a round mirror inside.

**The 532nm** tip is for treatment of red and brown tattoo pigment in the skin, this tip is longer and has a square mirror.

## 1.6 Applications

1. Remove black, blue, coffee, brown and all kinds of tattoo;
2. Pigmentation formed by pathological changes of pigment skin and mixed colour, dermis spot, fleck,

- black nevus, age pigment, birthmark and Nevus of Ota;
3. Remove all kinds of embroider eyebrow, embroider lip, soak lip, embroider eye line and lip line.

## 1.7 Reference table of all kinds of treatment period and case history:

Case	Treatment times	Treatment intervals (intervals of two treatments)	Remark (requirements in treatments)
Embroider eyebrow	1~3	30~45 days	protect eyeball when treating eyebrow
Embroider eye line	1~3	45~60 days	protect eyeball when treating eyebrow
Eye lip, Soak lip, Embroider lip	1~3	30~45 days	choose 532nm the light head
Tattoo	1~4	30~45 days	Good effect if blood spots occur
Age pigment Fleck	1~4	30~45 days	Good effect if blood spots occur
Nevus Birthmark	3~7	30~45 days	Good effect if blood spots occur

## Chapter 2 – Safety and Compliance

### 2.1 Introduction

This chapter describes the safe use of the LS8 Q-Switched Nd: YAG Laser system. Each operator must read and understand this User Manual completely prior to starting the device.

The EN and IEC 60825 series of standard and technical reports covers the safety aspects of laser products, forming the basis both of manufacturer's requirements for conformity to product legislation and, for European countries that have no National laser user standards, the best practice guide for safe laser use.

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## 2.2 Laser Classification

Lasers are grouped according to ability to do harm, the higher the number the greater the harm. The current laser classes are **1, 1M, 2, 2M, 3R, 3B and 4**

### The LS8 is a Class 4 Laser

*This is the highest class of laser radiation. Radiation in this class is very dangerous and is hazardous to view at all times. Exposure of the eye or skin to both the direct laser beam and to scattered beams, even those produced by reflection from diffusing surfaces, must be avoided at all times. In addition, they may pose a fire risk and may generate hazardous fumes. Class 4 output levels for CW start at 500 mW and for pulse systems they CAN producer over 125mJ in less than 0.25 seconds*



The manufacturer is required to implement all appropriate safety and engineering controls that are applicable to each class of laser.

## 2.3 Operator Responsibilities

The laser treatment systems require special expertise and care in its handling and use. Only persons who have received the required training, taking into consideration operating instructions, and who are familiar with its therapeutic effect and possible risks are permitted to use the laser unit.

**\*\* Check with your local Health Authority for regional requirements.**

### 2.3.1 User Training

1. Untrained or unqualified operating persons are not permitted to operate the laser treatment systems under any circumstances whatsoever. The manufacturer and/or any authorised distributor offers comprehensive training courses for the Laser treatment systems.
2. Each user must have read and understood the User's Manual completely prior to starting the Laser treatment systems.

### 2.3.2 Client Safety

Client's safety mainly depends upon a well-trained operators, client consultation, correct skin analysis and a suitable treatment room. The attending operators must inform the client all the risks with the use of this device. Clients should be instructed to wear protective glasses or other tools (gauze, eye patch etc.) to protect the eyes during treatment.

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## 2.4 Treatment Room

Laser and IPL treatments should be carried out in a dedicated laser operating room, this room should be designated as a Controlled Area

- Each entrance to the Controlled Area should be clearly labelled with warning signal of laser radiation.
- Provide an indication of the state of readiness of the laser
- For all optical radiation equipment in use a sign stating: EYE PROTECTION MUST BE WORN
- Take measures to prevent others from entering the room at the time of operation of the equipment.
- Appropriate precaution signs and labels should also be posted inside the room

### 2.4.1 Beam Reflection



**WARNING:** If the laser beam strikes any semi-glossy or reflective surfaces, dangerous and potentially blinding reflections or scatter can result. Never work around the laser or enter a room where the laser is operating without wearing laser safety glasses.

Take measurements to avoid possible reflections of the laser beam that could result assessed hazards, it is recommended the following minimum measures should be taken:

1. Windows should be kept to a minimum, be opaque and protected by blinds. These should be non-reflective and may need to be fireproof where higher-powered lasers are used.
2. Walls, ceilings and fittings should be painted with a light coloured matt paint to enhance illumination and minimise specular reflections.
3. Reflecting surfaces such as the use of glass- fronted cupboards have been avoided.
4. Ensure any reflective surfaces are covered where necessary
5. Keep optical trolley free from clutter and remove jewellery, wrist watches etc.

The illumination in the operating room should be sufficient, so that the operator can observe skin reaction and perform the operation. A high level of illumination will minimise pupil size and reduce the risk of stray laser light reaching the retina.

*Additional equipments are recommended such as air conditioning, laser plume extractor and dehumidifying machine etc.*

## 2.5 Safety Precautions



**HANDLE WITH CARE:** Precision fragile laser components are installed inside the operating hand piece of this product, prevent from dropping during use or storage.

1. Please make sure to turn off the instrument when you clean the laser or the laser lens.
2. Never emit laser beams onto an area not to be treated.
3. When moving the gun during treatment or placing the gun after treatment is finished, the operator should point the end opening of the gun to a safe direction.
4. The key switch is used to turn the unit on and off. Please remove the key when the unit is not in use to prevent unauthorised access.
5. The emergency cut off switch is used to shut down the device in case of any emergency. After engaging the emergency shut off button, turn the device off by rotating the key in a counter clockwise direction.
6. Rotating the emergency cut off switch in the direction indicated by the white arrows will release the button.

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## 2.6 Optical Safety



Eye protection  
must be worn

**NOTICE:** Short pulsed high peak-power laser beams are particularly hazardous to the eye, especially at wavelengths that reach the retina, as they deliver a lot of energy in a short period of time that can cause irreversible damage. Near infra-red lasers are also particularly hazardous because you can't see the beam but it could be focused on the retina and you would only be aware of it after damage has been caused.

1. Protective eye wear shall be provided for use by the Laser Operator and Client. It is important that the correct goggles are used and fitted correctly. The Operator shall instruct all personnel in the Controlled Area to wear goggles suitable for the laser being used, no viewing of the treatment site should be allowed.
2. To comply with the PPE Regulations, any new eye protection purchased must be marked by the manufacturer to show that it has been tested and shown to comply with BS EN 207/208. This does not apply to eye protection that is already in use and was provided with the laser by the manufacturer
3. The glasses provided with this unit are manufactured specifically for the 200nm to 1080nm wavelength produced by the laser unit. Do not substitute treatment / safety glasses with other types of tinted eye wear which may not meet the specific safety requirements of the unit.
4. The laser window is located at the end of the aimer of the hand piece. Keep away from the laser radiation emitted from this window and never look directly into the end of the hand piece. Never look directly at laser or reflected beams even when wearing goggles.

## 2.7 Electrical Safety



**WARNING:** Power supplies for most lasers use high voltages, often with stored energy. Whereas most hazards can incapacitate, electrical shock hazards can kill.

All laser power supplies should be regarded as potentially lethal and protective housings should not be removed or displaced except by trained and authorised personnel.

1. Laser is a type 1 model B ordinary instrument according to electrical protection classification
2. Laser uses AC220V±10% power supply, whose capacity should be not less than 250W
3. The power supply connected to Laser must have a single phase three wires power socket that meets international standards, being well earthed in accordance with the electrical safety regulations in force, and having a specification of 10A or higher.  
THE MANUFACTURER DECLINES ALL RESPONSIBILITY FOR DAMAGE TO PERSONS OR PROPERTY RESULTING FROM THE FAILURE TO EARTH THE DEVICE OR FROM A DEFECTIVE EARTH CONNECTION.
4. Ensure the stability of the electric voltage, Anti surge/spike sockets recommended to prevent damage to unit
5. When Laser stops running, there might still be a residual current in some high voltage components inside the instrument.
6. Opening the cover of the casing may cause a high voltage electric shock and will void any warranty.
7. After installation the plug should remain accessible
8. Never unplug the device by pulling the power cord

Before the Laser leaves the factory, it has already been marked the local rated voltage according to the customers' request.

The LS8 corresponds to the electricity requirement as follows:  
AC110V -230V±10%,10A,50/60Hz





**CAUTION:** Ensure that the electric voltage rating of this instrument (AC220V±10% or AC110V±10% refer to system labelling) matches the electric voltage of the outlet.

## 2.8 Fire Prevention



### **WARNING**

High power lasers have a potential for igniting combustible materials.






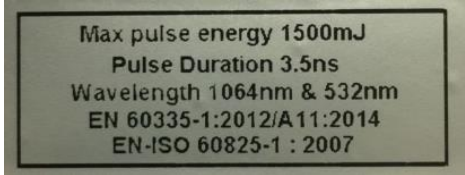
1. The laser light device generates thermal energy. Avoid using combustible material such as acetone or alcohol near the device.
2. If alcohol based products are used to disinfect the laser device, ensure that the alcohol has completely evaporated prior to operation.
3. Flammable and explosive objects, anesthesia, drugs, alcohol, gas etc, should be removed from the laser treatment room.

## 2.9 Device Compliance

This equipment is powered by a high voltage power supply capable of high current output. There are no user serviceable components in this system.



**WARNING:** HAZARDOUS LASER RADIATION. AVOID DIRECT EXPOSURE TO THE BEAM. DO NOT STARE AT SCATTERED OR REFLECTED LIGHT. STRICT OBSERVANCE OF THE FOLLOWING WARNING LABELS IS ADVISED.

 <p>The laser warning triangle is attached to the laser hand piece</p>	 <p>This label is affixed to laser hand piece</p>
 <p>Manufacturer date plate on rear of device</p>	
 <p>This warning label is affixed to the top of the main device</p>	 <p>This warning label is affixed to the top of the main device</p>

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## **Chapter 3 - Installation procedure**

The process of installation includes:

- Unpacking the device and checking contents.
- Assembly of its components and ensure that all connections are firmly in place.
- Fill the water tank with distilled water only.
- Installation treatment hand piece and connect the power supply
- Switch on the device and test all functions / parameters of the system

### **3.1 Unpack and Check contents**

Unpack the unit, remove all packaging material, and examine for damages.  
Do Not proceed with installation if unit is damaged.

Item	Qty	Check Item
Main Unit	1	
Detachable Hand Piece	1	
1064nm treatment head	1	
532nm treatment head	1	
Protecting glasses	1	
Client Eye Covering	1	
Key	2	
Water pipe	1	
Funnel	1	
Electrical source line	1	
Foot switch	1	
Hand piece holder (+2 screws)	1	
Training Manual	1	
Spare Fuse	1	

**IMPORTANT!** Please keep all packaging for safe storage and in case of any warranty returns or servicing.

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## 3.2 Installation Requirements

Place the equipment on a flat, steady surface in the operation room or treatment room which the temperature is between 22—28° and the humidity is below 10%.

Keep the fans and vents clear of any obstructions to maintain airflow and prevent overheating.

## 3.3 How to Connect the Detachable Hand Piece

Fix the hand piece holder on the machine firstly.



This device features a 'Plug and Play' hand piece, detachable for easy replacement. The specially designed shock resistant hand piece will not warp due to the generated heat. The YAG bar and xenon lamp are contained in ceramic silver-gilt lumen providing high temperature resistance and high reflectivity resulting in minimum energy loss.



**Step 1.** The socket on the front of the device



**Step 2.** The plug on the hand piece tube



**Step 3.** Push-in the two button



**Step 4.** Insert hand piece plug into device socket at right angle

Push-in

Push-in



**Step 5.** Connect hand piece plug to socket. You can hear the sounds of the two buttons spring. So the plug connects well.



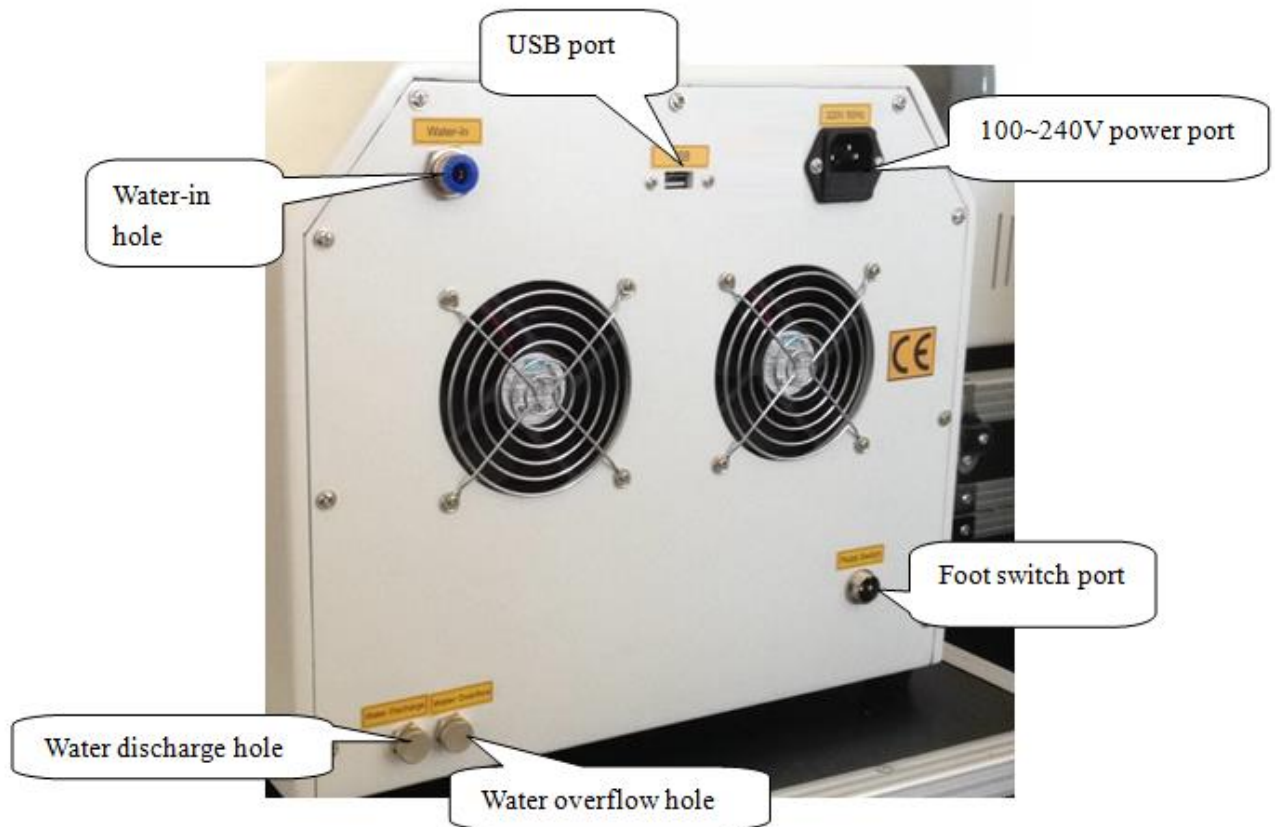
**Step 5.** Put the hand piece onto the holder

### 3.4 Filling the Cooling Water Tank



**CAUTION:** Operating machine when the water tank has no water or has not enough water is absolutely prohibited!

#### 3.4.1 - This is the overview of the back of LS8.



1. **Water-in Hole** - to inject water into cooling tank
2. **Water Overflow Hole** - indicates when cooling tank is full
3. **Water Discharge Hole** - to empty cooling tank



**CAUTION:** Only use distilled or pure water in this device, DO NOT use tap or bottled drinking water

We advise pure water, just because normal water has scale, using normal water will result in:

- A risk of blocking the water pipe,
- Potential burn out of the hand piece
- Weakening the power.
- Invalidate any warranty

### 3.4.2 - Procedure for Injecting Cooling Water

**Step 1:** Take off the screw cap of the Water Overflow Hole, place a bucket or bowl underneath this outlet.

**Step 2:** Connect soft end of water pipe to funnel

**Step 3:** Remove plug and insert the hard end of water pipe into Water-in Hole. (fig 2)

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**Step 4:** Carefully pour cooling water into the funnel - Lift the funnel higher than the equipment in order to inject water easily.

**Step 5:** When water comes out from the Overflow Hole (fig 1), That means the water injection is finished and water tank in the equipment is full of water.

**Step 6:** Push the blue plastic ring on the Water-in Hole, and then take the water pipe off.

**Step 7:** Replace Overflow Hole screw cap. The water injection is finished.

**Step 8:** Check for any internal or external leaks, clean up any water spillage.



Fig 1 – Inserting water tube into Immit Hole



Fig 2 – Overflow Hole, tank is full

### 3.5 Select Treatment Tip

Choose the relevant light head according to your requirement and tighten the tip following the threads direction. 1064nm gets rid of black, blue and cyan pigment, and 532nm gets rid of red, coffee and brown pigment.

1064 nm treatment tip is usually used for debugging and testing the apparatus energy.

*Having made sure that there is no internal or external leakage; you can now connect the foot pedal and power lead.*

### 3.6 Install Foot Switch Pedal

Make sure that the notch on the switch is facing upward, align the notch and tighten the switch clockwise. Ensure the connection is firmly secure whilst being careful not to over tighten.

### 3.7 Connect Power Supply

Connect one end of the mains lead to the rear of the machine, and insert the plug into the three pin mains outlet.

After the instrument is connected as described above, it is ready for use. The operational procedure is explained in chapter 4

## **Chapter 4 – Operational Methods**

### Operation methods for LCD interface

#### 4.1 Safe Operation

- Make sure the operation room is clear when operating the equipment.
- Operators must wear white or light coloured work clothes in order to reduce radiation to body.

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- The illumination in the operating room should be sufficient, so that the operator can observe skin reaction and perform the operation.
  - Don't use any reflective surfaces while you use the laser machine.
  - The operator must carry out a full consultation before any laser treatment know about the diseases and symptoms of the clients and tell them the possible normal responses during and after operation.
  - Operators who are professional must keep the laser beam away from non-treated areas.
  - Operators must make sure the clients eyes are properly protected when treating the embroider eye line, because any damage to the eyes is irreversible.

## 4.2 Examination

Examine the equipment completely if installed according to the installation instructions and requirements. Check the water level is normal and the working environment is suitable.

## 4.3 Using the Device Interface

**Step 1:** To power the machine insert the key and turn clockwise to the opening position. At that time you can hear the normal sound of the water cycle. (The red emergency switch must be lifted.) And then hold the water tube of hand piece to feel whether the water is running in it. You proceed to next step once you make sure that the water cycle is normal.

The screen displays logo as you open the general power supply switch (fig 1). This logo can be changed into any other logo as customers want.

# Start LOGO

Fig 1

**Step 2:** Click the logo. You enter 6 function interface.



Fig. 2

**Step 3:** Click any function above, e.g, tattoo removal, you enter:



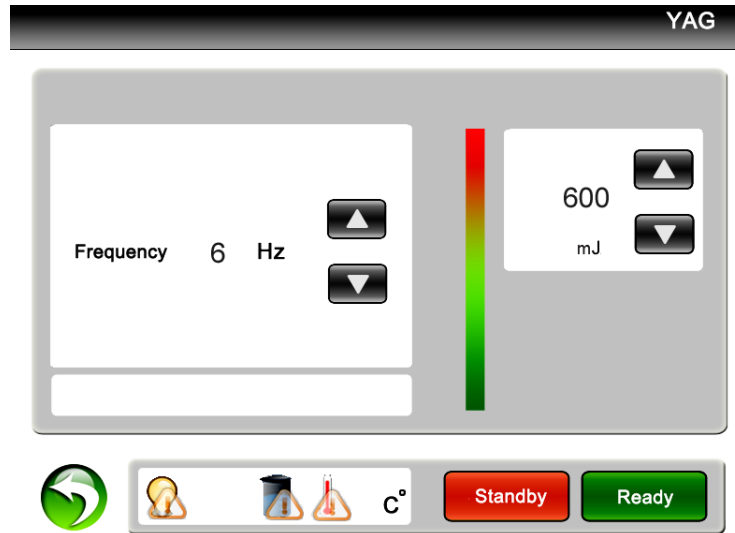


Fig 3

**The interface display:** status indication; treatment mode and the current treatment mode; the general counter and the current counter; treatment frequency; treatment energy; operating key-press indication.

**Step 4:** Press the key or the to raise or low the Frequency or Energy.  
PLEASE NOTE: Different treatment modes require different frequencies and energy levels accordingly.

**Step 5:** Press the key and the machine goes into the preparation working state. You can hear crisped sound as you touch this key, and the indication light turns on. At that time the aiming beam of the laser lumen is lit and this equipment goes into pre-igniting state, you must pay attention that you make sure that the aiming beam points towards to the ground to protect eyes.



**CAUTION:** When operation at maximum energy DO NOT set the frequency higher than 5Hz

**Step 6:** Test and adjust suitable parameters on a non-treatment area  
Operators can test between dark magazines or dorsum of hand, at the same time the operator press the kick pedal with foot and hold the hand piece with your right hand. Aim the treatment tip towards to the testing area to examine the light energy which is emitted, you can see the shining light and hear the sound “ba ba”. The size of testing area is about 1cm<sup>2</sup> and the paper will turn white, and you can feel a slight tingling sensation .

**Step 7:** After selecting the correct Mode, Energy and Frequency, aim the laser towards treatment area, press the foot switch and apply treatment accordingly.


#### 4.4 To Pause Operation

1. First you loosen the kick pedal and press if you need to pause the machine. The other way is press the red “Emergency Switch” directly. The machine will be in safe condition. The laser light will not output if you touch the kick pedal.
2. If you need to continue to operate this machine, please press , then you tread the kick pedal and the machine will operate again. Lift the emergency switch if it was pressed.



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## 4.5 To Shut Down the Machine

1. Remove foot from the kick pedal and remove the hand piece away from the treatment area to stop treating.
2. Press the  key .
3. Place hand piece securely into holder.
4. Turn key counter clockwise and remove to prevent unauthorised use.
5. Switch off power supply.

### 4.5.1 Emergency Shut Down

1. Press red emergency button
2. Turn key anticlockwise and remove

## 4.6 Treatment Shot Counter

During the treatment, the counter can record the shots/flushes during treatment. The counter includes current counter and general counter. The current counter (used to record shots/flushes of unit treatment) can record from 000000—999999. The general counter (used to record total shots/flushes of the machine) can record the number from 00000000—99999999.

The last used parameters in different treatment modes are saved even if you close the power supply. You can change it only when you change it to new parameter.

## 4.7 Temperature Display and Protection

There is error protection function for monitoring the water temperature and circulation. It will display “ERROR” in the relevant function area, an audible alarm will be emitted and the machine will cease to work. The controlling will exit when you touch any key, and turn to the welcome interface.

# Chapter 5 - The Operation of Laser Instrument

## 5.1. Client Consultation

A full consultation and patch test is to be carried out before any treatment takes place. Consult in private and make client feel comfortable, the consultation will enable you to establish if the client is a suitable candidate for laser therapy.

### Consultation Process:

## 5.2 Explain to the client how the Q-Switched Nd: YAG treatment works

The Q-Switched laser delivers specific-wavelengths of light extremely quickly (in nano-seconds) at a very high energy. These pulses are selectively absorbed by the tattoo pigment, shattering it into tiny fragments small enough for the body to recognise the particles as a foreign object, and over the next several weeks some of particles (in shallow cuticle) are discharged from the body and the other part (in deep tissue) are absorbed and digested by the body's macrophages and removed out of the body by the immune system. Since the specific wavelengths used can only be absorbed by pigment particles, no lasting injury happens to normal skin and normal tissues.

Q-Switch laser systems can now remove all types of tattoo with little or no scarring. Professional and amateur tattoos, as well as traumatic tattoos, resulting from accidents, are treated successfully. Multiple treatments will be required

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### 5.3 Matters that can Influence Laser Treatment

There are many factors which can affect the results of successful treatments and complete removal is not always achievable.

Clients should be given realistic expectations of treatment results, and complete removal of pigment can never be guaranteed.

- **Amateur or professional tattoo** – Amateur tattoos are easier to remove as usually they are not as deep as professional tattoos and the ink is more sparsely applied. Amateur tattoos are usually only a single colour (black or blue), whereas many professional tattoos are multi-coloured.
- **Type of ink used** - The pigment divided into plants pigment, mixture pigment, and chemical pigment. The plant based pigment is the easiest to dispel, while the chemical pigment is most difficult. If pigment contains iron and lead in the mixture and chemical pigment, it may not react well to laser treatment and can be difficult to remove.
- **Depth of ink** - Generally speaking the deeper the pigment, the more difficult to remove. And it also takes many times to dispel. It will easy to dispel if the depth of the pigment is thin. Any treatment will not react well if the pigment is chemical based, even the depth of the pigment is thin.
- **Colours in tattoo** – Black and blue tattoos are the easiest to remove while the green and yellow pigments are the hardest as there is not an ideal wavelength that either of these colours absorb. Tattoo's that have had white (titanium oxide) applied cannot be removed until the white has faded. UV inks cannot be treated.
- **Age of tattoo - Older** tattoos usually easier to treat, new tattoos contain more pigment (ink) and often multiple colours.
- **Clients own healing ability** - The different physique of people. The factors include age, skin, and body immunity and so on.

### 5.4 Side Effects

A superficial burn wound can be created by the laser tattoo removal treatment, The immediate whitening of the treated area is the inks reaction to the absorption of the lasers light energy creating steam within the surface of your skin which usually last for several minutes.

#### Clients May Experience:

- Swelling or Bruising
- Pinprick Bleeding
- Feeling of Sunburn
- Blisters,
- Scabs and Crusts
- Pigmentation changes due to loss of skin pigment can occur (temporary except in rare cases).
- Dry Itchy skin
- Temporary hair loss
- Infection

Although times can vary, Complete healing usually takes 4-6 weeks. Some extreme cases can be up to 3 months to heal properly.

Scabbing and blistering routinely occur following treatment and usually occur 8-72 hours after the treatment, which can last 1-2 weeks or longer. When the scabs separates, the skin in the treated area may look pale or pink.

Hemoglobin of the tissue has a strong absorption of the 532nm wavelength. Using the 532 nm wavelength increases the risk of swelling phenomenon, skin surface turning white after vaporization, epidermal necrosis, a certain loss of pigment or pigmentation.

Due to personal immune system difference an increased restoration period between treatments may be required.

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## 5.5 Treatment Aftercare

### After Laser Tattoo Removal Treatment

- Cold compresses (not ice) and recommended skin care products may be useful to reduce swelling or discomfort.
- You may take over-the-counter pain or anti-inflammatory medication. Hydrocortisone (steroid) cream may decrease any itching or skin irritation. Antibiotic ointment (such as Neosporin) may be used if skin is broken to prevent infection.
- Your skin will be fragile for 2 to 3 days. Use gentle cleansers, but do not rub the skin vigorously and avoid hot water during this time. Skin moisturisers may be used and make-up can be applied if the skin is not broken.
- Avoid sun exposure and tanning creams during the entire course of treatments. Use SPF 30 or greater on the treatment area at all times.
- The treatment area may be left open and uncovered. Do not scrub the area. Do not use any products on the treated area without first consulting our staff.
- Avoid soaking for 24 to 48 hours. No hot tubs, whirlpools or baths, but showers are okay.
- Avoid excessive sweating for 24 to 48 hours. No saunas or vigorous working out.
- Keep areas well moisturised and allow scabs to fall off on their own. This is an expected occurrence with tattoo/pigment removal.
- Avoid irritants such as Retin-A, Retinol, Renova, glycolics, bleaching creams and exfoliants for one week.
- Refrain from alcohol for 3-7 days.
- It is best avoid smoking for a period of several weeks before and after your procedure, as smoking constricts the capillaries and taxes the immune system, thereby slowing healing and results

## 5.6 History

Operator must record details of clients history. All patients must complete and sign the history profile prior to treatment. The history is reviewed and confirmed with the patient during their consultation.

### 5.6.1 Contraindications

**DO NOT** treat anyone with the following conditions unless client obtains a signed letter from his/her doctor confirming that the condition(s) will not prevent client having laser treatments;

- Lupus or other autoimmune deficiency
- Pregnant or Breast Feeding
- Bleeding abnormalities
- Treatment of Acne in the last six months
- Keloid or very thick scarring
- Inflammatory Skin Conditions (e.g: Psoriasis) or Injuries
- Hypo-Pigmentation
- Rheumatoid Arthritis "Gold" Therapy
- Herpes simplex or fever blisters
- Diabetes
- Epilepsy
- Cancer
- HIV/AIDS
- Used St John's Wort in the past 3 months
- Newly Tanned skin (includes; natural suntan, tanning bed, fake tans) in last 30 days
- Waxing/Plucking/Electrolysis/Sugaring within last 6 weeks
- Wearing a Pacemaker, or any Metal Pins/Plates

#### **Note:**

This list is not fully comprehensive and others factors may arise during consultation

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### **5.6.2 Photosensitivity Considerations**

Many prescription drugs and herbal remedies can cause increased Photosensitivity meaning the skin becomes more sensitive to light.

Photosensitivity reactions are generally either Photo-Toxic or Photo-Allergic. Photo-toxic drugs are more common than photo-allergic drugs. Reactions can include:

- Extreme sunburn
- Swelling
- Stinging and Burning
- Hives

It is important that you obtain a list of common photosensitising medications for reference.

## **5.7 Skin Typing**

One of the important parameters for the success of laser treatments is the correct typing of the skin.

Skin type is often categorized according to the Fitzpatrick skin type scale, which ranges from very fair (skin type I) to very dark (skin type VI). The two main factors that influence skin type and the treatment programme devised by physicians are:

- Genetic disposition
- Reaction to sun exposure and tanning habits

Skin type is determined genetically and is one of the many aspects of your overall appearance, which also includes the colour of eyes, hair, etc. The way skin reacts to sun exposure is another important factor in correctly assessing skin types. Recent tanning (sun bathing, artificial tanning or tanning creams) has a major impact on the evaluation of your skin colour. Treat as next darker type if unsure.

## **5.8 Client Consent**

All patients must complete and sign client consent to treatment form prior to treatment. The history is reviewed and confirmed with the patient during their consultation.

## **5.9 Patch Test**

Patch tests should be applied to establish the highest level of energy that the patient's skin can tolerate without adverse reaction.

1. Determine the patient's skin type and select the settings for the three test spots accordingly.
2. Remove any make-up or lotions and cleanly shave the area to be tested. Make sure the area is completely dry.
3. Each test spot should be clearly delineated. Increasing energy for each successive spot left to right or bottom to top for consistency in assessment and documentation.
4. After 5-10 minutes, record the initial reaction on the test spot notes.
5. Test spots on patients with skin types V and VI should be at least 2 weeks prior to treatment in case of late emerging side effects. Other skin types may not have to wait as long.
6. Upon return, treat the patient at the highest energy tested that did not cause an adverse reaction (crusting, blistering or pigment change).

## **5.10 Treatment**

1. We advise you take the second treatment 6 weeks after the first.
2. You can shave the eyebrow before removing the eyebrow with device in order to examine the effect.
3. Take photos before and after every treatment for reference
4. We advise you that you should treat large tattoos and nevus little by little and time by time to avoid too much discomfort to the client. You can also help build client confidence by seeing the contrast between before and after the treatments.

5. There maybe the sound of the pigment breaking when you treat the deep tissue of the tattoo because of the strong absorption to laser energy with 1064nm. The tint colour of the pigment can come out the cuticle after absorbing the energy.
6. Use a lower energy over bony and thin-skinned areas,
7. The results of tattoo removal will be more noticeable in the first few treatments, due to there being more pigment.
8. The function of digesting and transportation of the macrophage can continue for a long time, and the colour can fade more during this period.

## **Chapter 6 - Operation Skill and Technique**

### **6.1 Demands before operation**

- Before each treatment, the user must check the functional performance of the device in order to avoid any risk of harm to patients or other persons. If the device is used in together with peripheral units, the User's Manuals for the peripheral units must also be read thoroughly and understood.
- Operators should complete a consultation and build a client file.
- Clean the treatment area, disinfect utensil, and shave the treatment area if necessary. You must pay attention that the area to be treated must be dry, as the treatment will be affected if there is water in the treatment area.
- The operator should wear white clothes and relevant wavelength glasses. Keep the operation room clean and make sure illumination is bright enough.  
You should keep the temperature is between 22 and 28°C, and avoid the laser irradiating non treatment area.

### **6.3 The suggested parameters during the operation**

<b>Treatment Mode</b>	<b>Frequency</b>	<b>Treatment Distance</b>	<b>Energy</b>
<b>Eyebrow removal</b>	2--3Hz	1—2cm	300—400mj
<b>Eye line removal</b>	1--2Hz	1—2cm	300—400mj
<b>Lip line removal</b>	3—4Hz	2—3cm	300—400mj
<b>Tattoo removal</b>	3--4Hz	3—5cm	300—500mj
<b>Spots and naevi removal</b>	3--4Hz	3—5cm	500—600mj
<b>Birthmark removal</b>	3--4Hz	3—5cm	550—700mj

**Notice:**

- 1064nm gets rid of blue, black and cyan pigment.
- 532nm gets rid of red, coffee and brown pigment.

The light beams should be vertical all the time. All the treatment doses are the parameters referring to the vertical laser beam. If it deviated from the vertical position, the laser flow will be reduced and the laser energy can not be completely utilised.

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The light spots should fold and translation to a line when you remove eyebrow, eye line and lip line.

You should remove the spot and naevus gradually in small areas.  
The treatment area should ooze blood when you treat the area.

## 6.4 How to Change Treatment Heads of Laser

The laser has two inter-changeable treatment tips, each offering different wavelengths: 1064 nm & 532nm, these screw into the end of the hand piece.

4. **1064nm wavelength** for black, blue, brown, and other darker colours tattoo removal, this tip is slightly shorter and has a round mirror inside.
5. **532nm wavelength** for red, orange, pink, and other lighter colours tattoo removal, this tip is longer and has a square mirror.



Picture - The Handle of laser and treatment tips.

### Directions:

Select the treatment tip according to the treatment of wavelength based on the examples above.  
Screw treatment tip in a clockwise direction to attach to hand piece  
Screw treatment head counter-clockwise to remove.

### NOTICE:

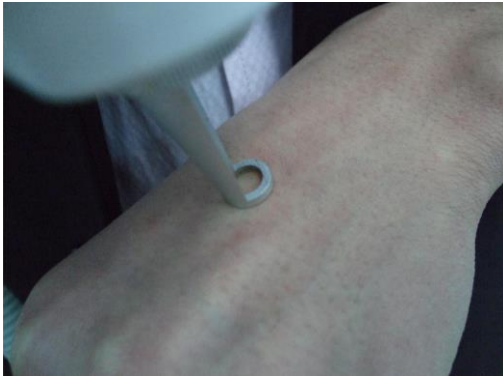
Please don't screw the treatment heads too tight.  
Please stop the machine, or enter safe mode when you are changing the treatment heads.

### 【Quick Tips】

1. The result will be better that treating part by part when you treat large area tattoo.
2. Please treat with 532nm head first when you treat lighter colour like red. After 2-3 times treatment, the red colour tattoo may possibly turn black or brown. Then treat it with 1064nm head.

## 6.5 Adjusting The Focal Point (Spot Size)

How to adjust energy after you set the power on LCD during treatment



1. Put the head on the skin first



2. Then, prolong the distance between skin and head.



3. The power is most strongest when the laser beam get the focus.



4. Power will be weaker again after the distance between skin and head is longer than the focal point.



5. Looking for a good distance to control the power during the treatment.

#### Notice:

Larger Focal Point (spot size) = Lower Power Density

Smaller Focal Point (spot size) = Higher Power Density.

## 6.6 How to control the energy of laser treatment

In the early stage of the use of laser treatment, you can consider the experience of others. The parameters of the treatment of a certain disease are:

Laser energy Q, pulse frequency Y and spot size D (direct).

Energy and Frequency can be adjusted directly through the machines interface and the select button. The spot size can be achieved by adjusting the distance between treatment tip and treatment area.

Energy density = laser energy /  $\pi \cdot D^2$  namely :  $E = Q / 0.787 \cdot D$

**A: In the actual operation, the energy also needs following points to consider:**

The skin colour, thickness, rough conditions vary from person to person and due to different sites.

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Therefore, the dose is different. When you operate the instrument, the dose should be gradually increased from small to large. You can find a suitable parameter this moment. For instance, first use some spot to experiment, the spot become smaller gradually (that is closing to the scheduling and to lift the treatment head gradually, finally to find the focus position), at the moment energy density (flow) changes from small to large.

**B: Please pay more attention to the changes of the skin colour in normal part.**

The target pigmentation always exist in corium or deeper in the skin, it should be treated by laser until blood oozing slightly. Another treatment is needed if the pigment cannot be removed thoroughly after 1 treatment.

C: Whether it is skin pigment or vascular skin diseases, we change the energy according to the colour depth. If the colour of the same lesion changes from deep to shallow gradient, the treatment should begin at the darker areas. While moving to the light-coloured, we should raise treatment tip position. This will make the spot size get larger, the energy get lower.

D: If treatment area is large and location is deep, too deep and large area treatment once will lead to local edema, blisters and exudates. So a layered and slicing treatment is suggested.

## **6.7 Operating Technique Introduction for Different Treatments**

### **6.7.1 Eyebrow Removal**

**a. Removing single blue and black eyebrow:**

The light speed can be set to 5Hz; the distance from treatment tip to skin is 1 ~ 2cm. You may treat from the head or may from the tail of the eyebrow. You can take the second treatment if there is colour restoration. The energy can add 20-40mJ and the treatment tip to skin distance can increase up 2-3cm in order to increase the effect

**b. Shaded eyebrow removal** ( the shaded eyebrow can be removed clearly 2 or 3 times)

Set the light speed to 3Hz and the energy can be selected according to the above form.

First you can treat with 1064nm in 2-3cm distance, and then you can treat with 532nm the second time. The brown pigment contains mixed pigment, so it could take more than two treatments; the treatment interval period is from 45 to 90 days. You can choose different light head according to the remaining colour.

### **6.7.2 Eye Line Removal**

The light speed can be set to 5Hz, and the energy should be set to the lowest point. It is about 2-3cm distance from treatment tip to the treatment area, and the light will be seen as reference.

The client's eyes should be protected with thick cloth and eye coverings.

First you remove the client's lower eye line, and the client should close his/her eyes, at the same time the clients eyeball needs to be looking upwards.

The operator presses the cloth with index finger, and peels away the lower eyelid with middle finger.

When you remove the upper eye line the client should close his/her eyes with eyeball looking downwards.

The operator presses the cloth with middle finger and pulls the eyelid with index finger.

### **6.7.3 Lip line removal**

The light speed can be set to 5Hz, and the energy can be selected according to the reference table above. The distance from treatment tip to the treatment area is 3-4cm space.

You can remove the black, coffee and deep red with 1064nm for the first treatment and then use 532nm for the second.

You can use 532nm to remove thin red, red, thin coffee and thin brown. You must pay attention that you carry out the second treatment of removing lip line, soak lip and the lip's tattoo within 6 months of the first treatment.

The course of treatment is from 45 to 60 days until it is clear.



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#### **6.7.4 Tattoo removal**

The light speed can be set to 3Hz/5Hz, and you can select the energy according to the reference table above. The distance between treatment tip to treatment area is 3 or 4cm. The effect will be best if there is blood speckles/pinprick bleeding. The light head of 1064nm gets rid of blue and black pigment while 532nm gets rid of red and coffee pigment. The interval between treatments is from 45 to 90 days and course continued until it is clear.

#### **6.7.5 Speckle and naevi removal**

The light speed can be set to 3Hz/5Hz, and you can select the energy according to the reference table above. The distance between treatment tip and treatment area is 3 or 4cm. The effect will be best if there is blood speckles/pinprick bleeding. The light head of 532nm gets rid of red pigmentation while 1064nm gets rid of speckle and naevi. The course of treatment is from 15 to 30 days until it is clear.

#### **6.7.6 Birthmark and nevus of Ota removal**

The light speed can be set to 3Hz/5Hz, and you can select the energy according to the reference table above. The distance between treatment tip to treatment area is 3 or 4cm. The effect will be best if there is blood speckles/pinprick bleeding. The light head of 532nm gets rid of red pigmentation while 1064nm gets rid of birthmark. The course of treatment is from 45 to 90 days until it is clear.

## **Chapter 7 - Maintenance of Laser Instrument**

This section describes daily maintenance of the Laser treatment system that can be carried out by the customer. Only personnel trained and/or approved by the manufacturer are authorised to maintain the inner workings of this device. Any manipulation to the system may cause damage to the device and will void any warranty.

### **Ordinary maintenance of the machine**

#### **7.1 General Cleaning**

Clean the outer part of the equipment regularly with soft damp cloth or microfibre cloth. You may also use a neutral detergent, and alcohol free wipes, but do not allow any liquid to seep into the machine.

#### **7.2 Clean the output lens**

You should clean the lens regularly after use. The spatter of pigment and tissue which splash into the lens in the treatment period may influence the light energy and make the laser become hot. You can loosen off the lens with screwdriver and clean the lens with anhydrous alcohol and a cotton swab. You must keep the gleaming convex surface towards to the inside. Otherwise, it can break if the direction is wrong.

#### **7.3 Regular cooling water changes are required**

The frequency of water changing depends on usage;

- 
- If you operate the machine on a daily basis, change water every 14 days.
  - If you operate the machine once or twice a week, change water after 30 days.

Remove the screw cap from the Discharge Water Hole and drain approximately 2/3 of the water and replace screw.

Remove screw caps from the Overflow Hole and Water Immit Hole; refill the cooling water level as per installation instructions. Allow the water to properly circulate for 5 minutes before preheating.

**PLEASE NOTE:** The cooling water must be distilled water or pure water, and we advice you use prepared distilled water or pure water which is sold in the market. Mineral water and tap water is not suitable to use, as the impurities in the water will cause a build up of scale which will affect the normal workings of the device and cause irreparable damage which will void any warranty.

## **7.4 Transport, Storage and Moving**

1. The machine is portable equipment, easy to move.
2. Keep and use the original packaging when moving or storing
3. Do not shake or drop the device
4. If relocating in treatment room, keep device level when carrying.
5. Must not hit the light head of treatment, because it has exact optics system.
6. Keep water pipe and treatment handle securely packaged by sprung materials.
7. Before carrying any long distance, empty cooling water from the water tank.

## **7.5 Troubleshooting Guide**

### **1. The machine will not start**

1. Check the power supply has electricity and the attaching plugs are securely inserted both ends and socket is switched on
2. Check the red emergency button is released.
3. Check key is in correct position
4. Examine fuse and replace if necessary

### **2. The water cycle is abnormal when you start the machine**

1. Check the water level, if there is not enough water inside to cycle properly this will trigger the water level cut-out switch.
2. Holding the tube of hand piece, then start the machine to feel water cycle.
3. Replace the cooling water inside as per instructions and shake the machine gently to reset the water level switch.

### **3. There is no laser beam output when you press the pedal.**

1. Check that the machine is in the correct working state
2. Check the pedal, cable and connecting plug for damage, if any part is damaged contact us for a replacement.
3. Check the working key is pressed.
4. Check energy level output. You can increase the energy through adjust the energy key.

### **4. The energy becomes weak or there is no light that comes out.**

1. The machine can not work as effectively if the energy is too low, increase energy level
2. The lens is dirty. You should clean the lens as directed.
3. The X-light is burnt out; you should change the laser gun.
4. You must stop working and not use the machine in 30 minutes if the apparatus has overheated.
5. Loosen off the light head and examine if the primary lens is damaged.
6. Check the handle and the light head carefully for signs of water leakage. You must change them if there are any leaks.

### **5. You may get an electric shock when you touch the machine.**

1. Dry weather and chemical fibre clothes can increase static shocks.
2. You should use the three grounding plugs and the electrical outlet must be correctly earthed.
3. The voltage is unstable, you should introduce a voltage stabilizer

#### **6. The machine leaks water**

1. Manipulation handle leaks water.
2. Water leaks because of strong shaking or dropping during transportation.
3. The water tank and the water pump leak water.
4. Please send the equipment to the company at once or counter-claim from the freight company according to the above situation.

#### **7. There is noise in the operating process when you press the preheating key.**

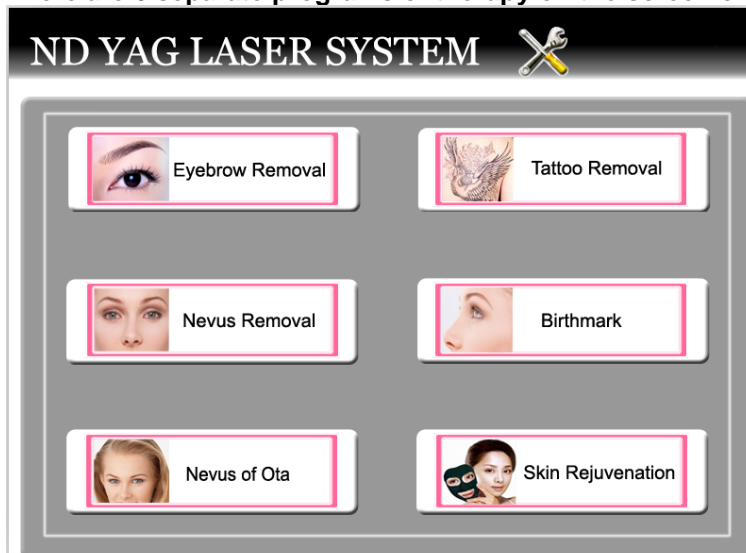
1. If the device has not been used for a long time, the instrument will simmer slowly. Please turn off and restart the machine.
2. Please raise the temperature appropriately if indoor temperature is too low. You can install air conditioning.
3. The fans are broken or the fans have friction with other parts. Please change a new fan or clear the fans obstruction.
4. The indoor humidity is too high, keep the room dry.
5. If the xenon is burnt out, please replace the xenon lamp.

#### **8. Energy weakens gradually during use of instrument**

1. Any impurities adhered to the treatment tip lens will lead to blocking the light, please check the lens. If there is any pigmentation, dirt or dust etc.; clean as directed.
2. Check if the operation hand piece is hot, please let the instrument rest for 30 minutes or replace the cooling water.
3. Check the lens. If it is broken, please contact the manufacturer or distributor immediately.

## **Chapter 8 - Detailed Function Introduction of LS8**

There are 6 separate programs of therapy on the screen of TIAN 3. (As below)



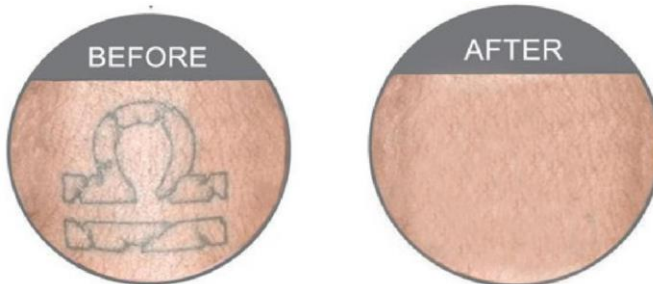
### **8.1 Eyebrow Removal**

Many women love to embroider their eyebrow with different colour ink. It is very popular in China. The embroider eyebrow can be removed easily by LS8 after women do not require it any more.



### 8.2 Tattoo Removal

Tattoo removal is the major function of LS8. It has two wavelength treatment heads. 1064nm wavelength for black, blue, brown, and other darker colours tattoo removal; 532nm wavelength for red, orange, pink, and other lighter colours tattoo removal.

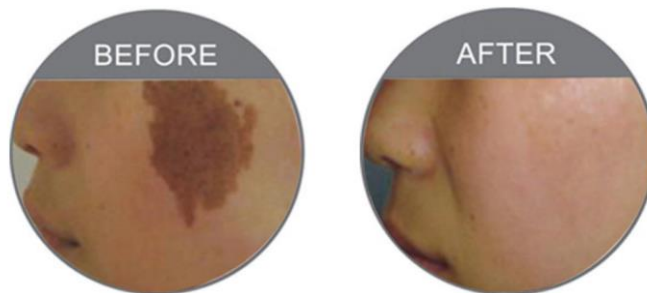


### 8.3 Nevus Removal

LS8 has very good results to remove it if there are several freckles on the face.

### 8.4 Birthmark

Just like Nevus of Ota, birthmark is also very difficult to remove. Because they are endogenous pigment. LS8 can remove it after 3 to 7 times treatment. But it **CAN NOT** be treated by laser if the birthmark protrudes the surface of the skin or has hair.



### 8.5 Nevus of Ota

Nevus of Ota is always on the face. It is very difficult to be removed. But LS8 can do that after approximately 3 to 7 treatments.



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## 8.6 Skin Rejuvenation

LS8 can do skin rejuvenation and it needs a third laser tip - a black tip and carbon cream.

### Further Information;

1. The LS8 also has good effect for other pigmentation formed by pathological changes of pigmented skin and mixed colour.
2. The 6 separate programs of therapy can be selected freely. And the parameters (Power, Frequency) in each application (e.g. Tattoo) can be stored in its own file, which can be directly used next time. The data in an application does not need re-adjustment. It makes easy operation and quicker treatment.

## **Chapter 9 - The knowledge collection of laser removal**

1. **The differences between the first and the second eye brow removal:**  
You should use the energy which near the focus energy for the first treatment. Distance can be greater than the first time and the energy can be gradually increased during subsequent treatments.
2. **The reason that the coffee turns to blue and black: -**  
It is normal reaction if the coffee turns to blue and black because the coffee is a mixture pigment which includes iron, lead ion, iron ion. And all these ion can produces pigmentation, so we advice you remove the pigment with 1064nm for the first time and then use 532nm. You can examine the effect half one month later. You can use 1064nm to remove if the colour turns to blue, and use 532nm if it turns to red.
3. **Why does some red eyebrow have no reaction after removing?**  
The pigment does not belong to plant pigment but the chemical pigment, and the iron has reached in to derma layer so it is difficult to remove. You should use the focus energy of 1064nm to break up the pigment until blood spots appear, and then you remove it with 532nm.
4. **How to remove the speckle of the face?**  
There are good effects on removing drought spot and butterfly speckle which can be caused by climate. The deep and hereditary speckles are difficult to remove while shallow and formed by acquired factors. You can use the focus energy to remove the senile plaque until blood spots appear. There are three treatment courses with an interval of 45 days between treatments.
5. **The treatment ways to remove naevi.**  
Using the focus energy to remove the naevi until blood spots appear.
6. **Can the scar constitution be removed?**  
A few people can be removed but the effect is not great. You should not use the focus energy, Use a large spot size and low energy.
7. **Can the pregnant woman be removed the eyebrow?**  
Pregnant women are not allowed to accept the laser removal treatment.
8. **How to remove the red blood streak and what degree will be OK?**  
We don't suggest that you remove the red blood streak, because the 532nm can absorb the hemoglobin in the blood. It can form the purpura to cause the operation fail.

## **Chapter 10 - The Advantages of laser treatment**

Laser treatment has many advantages as below for eyebrow and eye line removal, compared to the tradition surgery such as dispelling, frozen, electrocautery, chemical (medicine) +dispelling.

1. **Less bleeding**, the laser beam is very narrow and easy to target only exposure lesions. It doesn't hurt or injure the surrounding systems: at the same time laser has the effect of "hot welding" to the vessel. It can close the vessel. Therefore it will be less likely to bleed.
2. **It has less pain.** On the one hand because of the thermal coagulation, the nerve ending is damaged and reduces the feeling of pain. On the other hand the treatment area is small and the treatment

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time is short. Therefore, patients feel less pain. This treatment doesn't need anesthesia, although some patients may prefer to apply a topical anaesthetic or numbing cream to the skin surface before any treatment.

3. **The quality of surgery is high.** Because there is minimal bleeding during treatment, it leaves a clear view to remove target. Of course it also needs the quality assurance and responsibility of the operator.
4. **The time of surgery is short.** The energy of laser is large and centralized. Completing the point of the treatment only needs a few nanoseconds and a few milliseconds.
5. **less scar:** As following the advanced "the principle of selective absorption" to finish laser beauty, it won't cause normal tissue irreversible damage, so there is no scar.
6. **Fewer recrudescences:** as the laser treatment to the lesions is complete, the injury to the surrounding normal tissue is minimal. Therefore, the rate of the recrudescence is much smaller than traditional therapy.

## **Chapter 11** - Laser Tattoo Removal - Sample Consent Form

### **Consent: Explanation of Treatment**

The laser is a form of light that specifically targets tattoo pigment in the skin. The tattoo pigment absorbs the laser light and is broken up into small fragments. These tiny fragments of pigment are then taken away by the body naturally in the 2~3 weeks following the treatment. It typically takes 8-12 sessions of laser treatment to remove a tattoo. With laser tattoo removal it is normal to experience inflammation of the skin that comprises or redness, swelling, crusting and occasional blistering. The skin may bleed or swell. This reaction typically lasts a few days and is helped by topical ointment and gentle washing of the skin. Rarely, scarring of the skin surface and pigment loss can occur.

### **Consent: Explanation of Serious or Frequently Occurring Risks**

1. Pain associated with the laser light – typically like an elastic band hitting the skin
2. Skin redness and swelling of the skin surface that typically lasts several days
3. Crusting of the surface of the skin and rarely blistering.
4. Bleeding of the skin
5. Loss of colour of the skin, or more rarely increased brown hyperpigmentation.
6. Risk of hypertrophic or keloid scar that may be permanent.
7. Small risk of permanent scarring, typically a white mark.
8. Risk of failure of the treatment to remove the tattoo

### **Other risks discussed with the patient**

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### **Statement of patient**

**I agree** to the procedure described above

**I agree** that I must wear eye protection during treatment sessions

**I understand** that the results of treatment may vary with each individual and that the success of treatment can never be guaranteed.

**I understand** that there may be side-effects that can include reddening of the skin, bruising, mild burning or blistering, increased pigmentation and very rarely scarring

**I understand** that multiple treatments may be required to achieve the desired result and improvement.

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Name (please print): \_\_\_\_\_ Signed: \_\_\_\_\_

Dated: \_\_\_\_\_

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**Operator Confirmation of Consent** (I have confirmed that the patient has no further questions and wishes the procedure to go ahead)

Name (please print): \_\_\_\_\_ Signed: \_\_\_\_\_

Dated: \_\_\_\_\_

## Fitzpatrick Skin Type - Sample Form

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Please answer the following questions by circling the number which best describes you. Your clinician will total the score during the consultation.

<b>My ethnic origin is closest to:</b>	I. Very fair (Celtic and Scandinavian)	
	II. Fair-skinned Caucasians with light hair and light eyes	
	III. Pale-skinned Caucasians with dark hair and dark eyes	
	IV. Olive-skinned (Mediterranean, some Asian, some Hispanic)	
	V. Dark-skinned (Middle Eastern, Hispanic, Asians, some Africans)	
	VI. Very dark-skinned (African)	
<b>My eye colour is:</b>	Light blue	0
	Blue/green	1
	Green/gray/golden	2
	Hazel/light brown	3
	Brown	4
<b>My natural hair colour at age 18 was:</b>	Red	0
	Blonde	1
	Light brown	2
	Dark brown	3
	Black	4
<b>The colour of my skin that is not normally exposed to sun is:</b>	Pink to reddish	0
	Very pale	1
	Pale with a beige tint	2
	Light brown	3
	Medium to dark brown	4
	Dark brown-black	6
<b>If I go out into the sun for an hour or so without sunscreen and have not been out in the sun for weeks, my skin will:</b>	Burn, blister and peel	0
	Burn, then when the burn resolves there is little or no colour change	1
	Burn, but then turns to tan in a few days	2
	Get pink, but then turns to tan quickly	3
	Just tan	4
	Just gets darker	5

	My skin colour is so dark I can't tell	6
<b>When was the last time the area to be treated was exposed to natural sunlight, tanning booths or artificial tanning cream?</b>	Longer than one month ago	0
	Within the past month	1
	Within the past two weeks	3
	Within the past week	4

**Total Score =**

If your score is:	Your skin type is:	Notes:
0 ~ 3	I	
4 ~ 7	II	
8 ~ 11	III	
12 ~ 15	IV	
16 ~ 19	V	
20 ~ 24	VI	

## ***Laser Tattoo Removal Patch Test Form***

**Client Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Skin Type:** \_\_\_\_\_

**Treatment Area:** \_\_\_\_\_

Patch Test 1: Colour Tested: \_\_\_\_\_

Parameter	Test Patch 1	Test Patch 2	Test Patch 3
Wavelength			
Energy			
Frequency			
Distance			
Pulse Width			
<b>Comments:</b>			

Patch Test 2: Colour Tested: \_\_\_\_\_

Parameter	Test Patch 1	Test Patch 2	Test Patch 3
Wavelength			
Energy			
Frequency			
Distance			
Pulse Width			



**Comments:**

Patch Test 3: Colour Tested: \_\_\_\_\_

Parameter	Test Patch 1	Test Patch 2	Test Patch 3
Wavelength			
Energy			
Frequency			
Distance			
Pulse Width			

**Comments:**

## ***Laser Treatment Record Form***

**Client Name:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Skin Type:** \_\_\_\_\_

**Treatment Area:** \_\_\_\_\_

Date					
Change of Medications					
Change of Skin Type					
Wavelength					
Energy					
Frequency					
Distance					
Topical Anesthetic used					
Ointment Applied					
Reaction					
Time Taken					
Comments					
Cost					

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Sample client after care instructions

## **Tattoo Removal Aftercare Advice**

**The following notes are important. Please read them carefully.**

### **Before Treatment**

- Avoid exposure to sunlight, sun-beds and fake tan for at least 4 weeks.
- If the tattooed area is covered by hair, please shave the area 1 day prior to treatment.
- Do advise us of any change in medication.

### **After Treatment**

- If the skin has not broken, a dry sterile dressing will be placed over the treated area to protect it.
- The area will become raised and feel hot and can be cooled with the use of a cold compress, ice pack or a pack of peas from the freezer wrapped in a clean cloth.

**(Do not apply ice directly to the skin as this can cause a burn).**

- As long as the skin is unbroken cooling products such as Aloe Vera gel can be used to give relief to the sunburn type feeling of the treated area.
- E45 cream, Aloe Vera gel or Vaseline can be used to relieve the itching which normally occurs 3-5 days after the treatment.

### **Whilst Healing**

- Avoid restrictive clothing.
- Avoid perfume or body lotions to the area.
- Avoid hot baths or continuous soaking.
- Avoid heat treatments such as saunas and steam rooms.
- Avoid swimming.
- Avoid lying in the sun or using sun beds.
- Avoid picking at any scabs.
- Avoid allowing the area to become scrapped.

**Take great care of the treated area in order to obtain the best end result.**

**NOTES:**