

# HKS909

Diode laser

User&Training Manual



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## Diode Laser Safety Guidelines

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The Following information is provided for the correct utilization of IPL Skin treatment system. The information includes not only the accident protection regulations the products comply with, but also the effective regarding proper use of the products.

1) Electric safety regulation

The EMC Directive 89/336/EEC amended by 92/31/EC & 93/68/EEC EN 55015:2000+A1+A2/LUM200704025/EMC EN 61000-3-2:2000+A2/LUM200704025/EMC EN 61000-3-3:1995+A1+A2/LUM200704025/EMC EN 61547:1997+A1/LUM200704025/EMC

2) Material ROHS test 2002/95/EC

Restriction of use of certain Hazardous

Substance in Electrical & electronics Equipment/ROHS.

3) Electromagnetic radiation safety regulation LVD/EN 60601-1:2006/AGC10430904GZ05E3EMC/EN 60601-1-2:2001+A1:2006/AGC10430904GZ05E1

4) ISO 13485:2003 MEDICAL/33021200005459

5) ITC MEDICAL CE

IPL SKIN TREATMENT SYSTEM belongs to II a according to MDD directive, It designed according to EN 980:2003; EN 1041:1998; EN ISO 14971:2007; EN 60601-1-2:2007; EN 61000-3-2:2006; EN 61000-3-3:1995+A1:2001+A2:2006; EN 60601-2-22:1996; EN 60601-1-4-1996+A1-1999; EN 60601-1:2006.

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## **1.Laser Shaving**

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Use high-power laser to shave hairs, reduce hair length to 1/8 inches. If the hair is too long, it may produce carbon dust, so the handpiece should be cleaned regularly. Put the handpiece above the skin, turn on the switch, move laser around until all hairs are carbonized. Carbon reagent can be used to improve heat switch reaction. Notice that the handpiece may cause danger even when it is away from skin.

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## **2.Laser Radiation**

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After the hairs are shaved by razor, this step starts laser radiation. The skin should be fully cleaned, if there exists dirt, it can cause danger as well as reduce the efficacy. Put the handpiece above the skin, (the laser output should not touch the skin and hair, or it may damage the laser). Set laser pulse to 10 pulse/sec and turn on the laser, move handpiece around, but do not repeat over ten times on one tissue (1/2 inch circle), 30 or more pulses on one tissue can cause serious burn hurt. Reactions can be seen from the beginning, it is various on different patients.

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## 3.Product Information

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### 1.PRODUCT INFORMATION APPLICATION

- \*Hair removal
- \*Pigmentation troubles



### FEATURES

- \*laser wavelength: 808nm
- \*maximum output power:  $\geq 2W$
- \*spot diameter: 1.5mm
- \*energy density: 10-40j/cm<sup>2</sup>
- \*frequency: 1-12HZ
- \*pilot beam wavelength: 650nm
- \*pilot beam output power:  $\leq 5mv$
- \*pilot beam spot diameter: <1mm
- \*operating mode: pulse
- \*duty ratio: 1:1
- \*input current: AC100-240V 50/60HZ
- \*operating environment:
  - \*temperature: 5°C-40°C
  - \*humidity:  $\leq 80\%$
- \*Certifications: CE/ROHS
- \*weight: 6Kg
- \*Package size: 58\*50\*35cm

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## 4.Installation Alignment and operation procedures

4.1 Open the Package and checking all parts.



Diode laser handle  
foot Switch  
Laser glasses  
Goggle

4.2 Connect well the diode laser probe socket to device.



4.3 Connect well the foot switch to Device.



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## 3. Operate the Device

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- 3.1. Turn the key on the key switch and urgency Button to power on the machine, and the led on the screen will display.
- 3.2. Press  $\triangle$  or  $\nabla$  to adjust energy of power.
- 3.3. Press  $\triangle$  or  $\nabla$  to adjust frequency of laser emit.
- 3.4. Press ON button and the machine will be get ready.
- 3.5. Aim the handpiece to treatment area, press the emit button on the handpiece, the laser will emit, release the button to stop emit.
- 3.6. The Handle button can adjust the energy and frequency.
- 3.7. When you finish your treatment, please turn back your key to power off the machine, the key should be keep by doctor.
- 3.8. Press emergency stop button to stop the working of machine in case of emergency.

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## 4. Treatment procedure

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4.1 Cleanse, shave, and towel-dry the skin, then wipe the area with a cool towel. For the best results, the hair should be no longer than 1 or 2 mm in length. Wipe the area with a cool towel before you use the Epila Home Laser Hair Removal Kit.

This will help to keep your overall skin temperature down, so that you can endure the heat from the laser for a longer period of time.

### 4.2. Setting comfort level

Select the highest setting that suits your personal comfort level. There are five levels to choose from Level 1 (low), Level 2 (low-medium), Level 3 (medium), Level 4 (medium-high) and Level 5 (high). The Level 5 is most effective for hair removal but also the most painful. Between probe to Skin is around 2-3cm.

### 4.3. Apply and over laser treatment

Apply the Diode laser to the area of the skin you want to treat. Wait for the beep, then reapply by slightly overlapping the previous area. If there are a buzzing noise indicates that it failed, and you must retreat the area. Use the system for no longer than 30 minutes at a time. Take a 5 minute break, soothe your skin.

### 4.4. Future treatments

Since hair grows in cycles, not every hair can be treated at the same time. Keeping this in mind, you will need one laser treatment every other week for the first 3 months then one treatment per month for 3-5 months afterwards to achieve the best hair-free results possible. After eight months of treatment, the hair follicles will be disabled and the hair will not regrow. You can keep using Tria laser system until you find your skin completely hair-free and smooth.

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## **5.0ur Diode Laser Device superiority**

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5.1.Whole ABS Plastic Mould.

5.2.It does not present any contagious risk

5.3.stable laser energy output

5.4.Good energy and effect

5.5.Super treatment effect

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