

# N I N S K I

L O N D O N

## IPL MACHINE USER MANUAL



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# 1 MACHINE DESCRIPTION

## 1.2 System View

### FRONT AND BACK OF IPL MACHINE



# 1.2 Accessory Description

## HR Handle and Handle Seat

Name	quantity	unit	Name	quantity	unit
IPL glasses	1	piece	CPC	2	piece
Goggles	1	piece	Machine screws	4	piece
Machine key	2	piece	HR handle	1	piece
Power line	1	piece	SR handle	1	piece
Funnel silicone tube and 50cm funnel silicone tube	1	piece	Handle supporter	2	piece





SR handle and handle seat



Glasses and goggles



Watering funnel and CPC



Power line



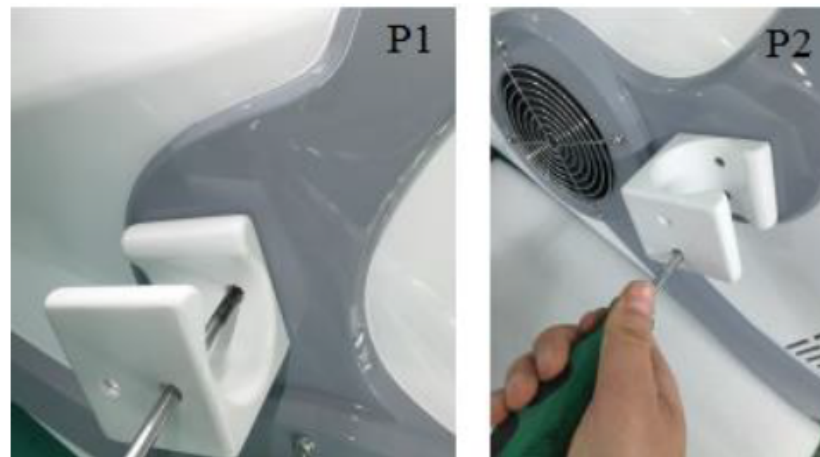
Screw and keys

## 1.3 Installation

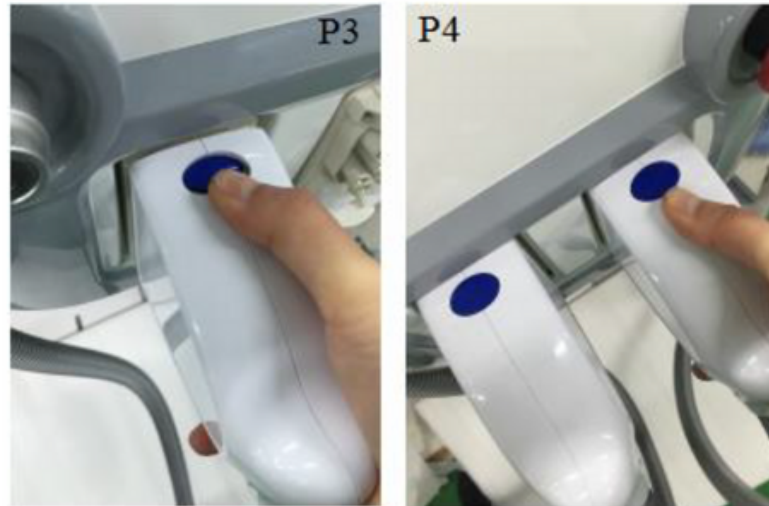
The machine should be installed away from the hot air vents and at a certain distance from other objects.

Take out the machine accessories and leave it indoors for 30 minutes for the following operations.

- **Step 1:** Install the handle supporter as shown - fixed to the appropriate position



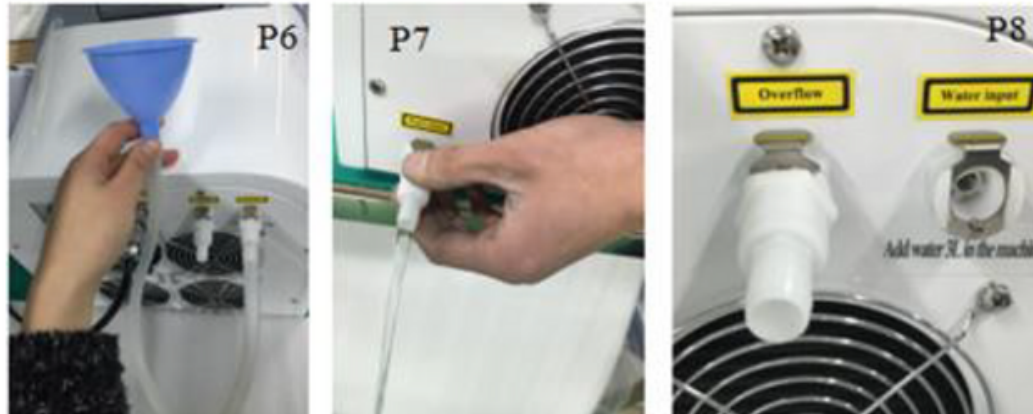
**Step 2:** Install the handle - swing the handle from top to bottom until the blue button is flush and the handle is securely mounted



**Step 3:** Install the power cord as shown - follow the panel to install



**Step 4:** Add water (as shown bellow) - Insert CPC into over flow then add 4L pure water from water input after fill it up. When you see water come out from over flow is ok please keep CPC in the over flow all the time.





## 1.4 Device Perimeter

ENERGY WAVELENGTH	HR:650-950NM    SR:560-950NM
	adjustable : VR : 420-950 nm AR: 500-950nm PR:530-950nm
	IPL&E-Light:10-50J/cm <sup>2</sup> SHR:1-10J/cm <sup>2</sup>
Frequency	IPL&E-Light: HR&SR 1-20 SHR:HR : 1-8   SR : 1-3
RF Power	1-30W
Output Power	2000W
Xenon lamp	Imported xenon lamp
Spot size	HR : 15*50mm   SR : 10*40mm
Treatment head temperature	Lowest: -10°C
Cooling system	Air & water cooling, semiconductor refrigeration
LED LCD screen	10.4-inch color touch screen

## 2 SYSTEM DESCRIPTION

### 2.1 Working Principle

- The principle of hair removal by strong pulse photon rejuvenation technology is the same as that of laser hair removal. According to the principle of photothermal action, it can selectively act on hair follicles and hair rods rich in melanin granule cells, resulting in local microscopic explosion, resulting in hair follicle tissue. Destroy to achieve an effective hair removal effect.
- Machine multi-function system that combines IPL, E-light and SHR modes of operation. Different working modes of IPL, E light and SHR can be selected. The traditional photon rejuvenation can output a lot of energy to the skin, the SHR system can treat the pain, and the sliding treatment can be used at high frequency, which is easy and quick to operate.

### 2.2 Applications

#### Indication:

- Permanent hair removal: Underarm Excess hair, legs, lips, or other parts of the body. legs, lips, or other parts of the body.
- Skin rejuvenation: shrinks pores, tightens skin and improves skin elasticity and gloss.
- Pigment removal: Remove various pigments such as freckles, chloasma, age spots, sun spots, and so on.

#### Contraindications:

- |                           |                                  |   |
|---------------------------|----------------------------------|---|
| • Pregnant woman.         | • Using photosensitizing drugs.  | • recently tanned skin (within one month) |
| • history of scar scars   | • Diabetes, unless under control | • cancer, especially skin cancer          |
| • heart disease, epilepsy |                                  |   |

## 2.3 Advantages of IPL

- Hair removal advantage
  - (1) Laser hair removal can cause minimal pain
  - (2) The best hair removal results, very thorough hair removal, laser action in different parts of the depth of the hair follicle, effectively removing any part of the body depth hair, permanent removal does not rebound.
  - (3) Laser hair removal treatment of hair does not cause pigmentation on the skin surface, in fact it can help with pigmentation caused by shaving.
  - (4) Use of the cooling system, heat and cooling effect of laser treatment on the whole head of the interaction, to ensure the absolute safety of the epidermis.
- Skin rejuvenation Advantage
  - (1) Laser skin rejuvenation with a high degree of security.
  - (2) The effect is significant. After 7 days of skin rejuvenation, the skin will have obvious changes
  - (3) Solve many skin problems, such as large pores, fine lines, scars, pigmentation, acne, freckles and so on
  - (4) Laser skin rejuvenation achieves a painless and non-inflammatory treatment effect without damaging the skin of the face.

## 2.4 Interface description

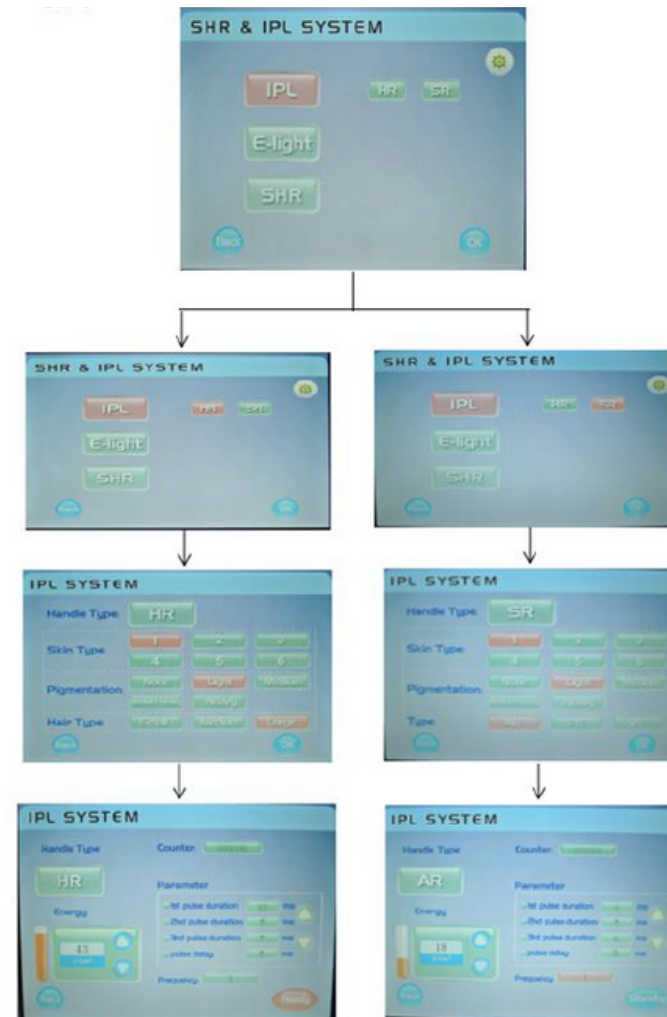
- Language selection Interface

# STEP BY STEP

Choose one of the working modes



IPL Mode:



## HANDLE TYPE

- Skin Type: 1-6 is the sensitivity of the skin to light from weak to strong
- Pigmentation: from white to dark
- Hair Type: from fine to thick
- Type: SR Handle type: AR-removing acne, PR-removing pigment, VP-removing red blood
- Optional or not selected
- Energy: Energy level, selectable range 10-50J/CM2, adjust energy by "▲" "▼".
- Counter: The current count of the handle, click once to clear the number; click once to view the total number of points used by the handle.
- Parameter:
  - 1st pulse duration: the first pulse width, the optional range is 1-10ms;
  - 2nd pulse duration: the second pulse width, the optional range is 1-10ms;
  - 3rd pulse duration: the third pulse width, the optional range is 1-10ms;
  - Pulse delay: Pulse width interval, selectable range 1-10ms, there are two pulse width intervals.
- Frequency: The working frequency, the range of 1-20, is the number of times the handle button is pressed.
- After releasing the button, continue to emit light until the number of times is completed.
- Standby: Press "Standby" to become "Ready"
- Press the handle button to work, and display "Working" under working status.

## SHR mode



## HANDLE TYPE

- Energy: Energy level, optional range 1-10J/CM2, adjust energy by “▲” “▼”.
- Counter: The current count of the handle, click once to clear the number; click once to view the total number of points used by the handle.
- Parameter:
- Pulse duration: Pulse width, not adjustable.
- HR-When the energy is 1-3J, the pulse width is 3ms; when the energy is 4-6J, the pulse width is 4ms; when the energy is 1-3J, the pulse width is 5ms.
- When the energy is 1-3J, the pulse width is 3ms; when the energy is 4-6J, the pulse width is 4ms; when the energy is 1- 3J, the pulse width is 5ms.
- Frequency:
- Release the handle button and stop working immediately
- HR-When the energy is 1-3J, the frequency is adjustable from 1-8Hz; when the energy is 4-6J, the frequency is adjustable from 1-4Hz; when the energy is 7-10J, the frequency is adjustable from 1-3Hz;
- SR- Energy 1-10J, frequency 1-3Hz adjustable.
- Timer: The optional range is 0-20s. Press and hold the button to light out. When the time is up, even if you press and hold the button, it will not light out. If it is in the time, release the button and stop.

## 3 TREATMENT

### 3.1 Safety check before treatment

- View patient's treatment record
- It is recommended to select the appropriate parameters for the patient based on the patient's condition and clinical treatment guidelines.
- All operating program status should be monitored on the screen display

### 3.2 Treatment Procedure

- All cosmetic treatments need to be consulted, protected, photographed, etc., patients need to have the right attitude towards treatment
- cleaning the treatment area, the patient needs to take off the jewellery during the treatment process
- Before treatment, the patient should be skin test, choose the skin that does not affect the appearance of the face, such as the ear root for skin test, we need applying the cooling gel in the skin test area, adjust the energy to irradiate 2--3 spots, and observe the treatment after 3 minutes. A slight redness in the area indicates that the energy is appropriate at this time.
- Apply a layer of refrigerated cold gel to the treatment site after skin test, usually 1--2mm, use appropriate energy for treatment, do not squeeze hard during treatment
- Hair removal should be cut to 1--2mm during depilation treatment, the treatment steps are the same as above according to the normal physiological process, the client is treated 21 days after each treatment. The entire treatment takes 3-5 times.

### **3.3 Possible Side Effect**

Due to differences between individuals, some customers may have temporary discomfort such as blisters, pigmentation, swelling, etc.

- Ice compress after treatment
- Avoid touching with hot water the treatment area within 12 hours after treatment
- 4-5 days without hot shower, aerobic exercise, massage, etc.
- After treatment for one month avoid the sun to prevent pigmentation, if the appearance of scab should make it fall naturally;
- The skin may appear dry after a few days of treatment, Body moisturiser is recommended.
- Make up is not recommended after treatment. customer should wait at least 5 days.

The skin is very sensitive in this period. Swelling and redness during makeup removal appear to be resistant to infection and pigmentation at the treatment site. At the same time, customers are advised to use vitamins such as vitamin C and vitamin E.

### **3.4 Treatment Parameter**

The following treatment parameters are for reference only and the client needs to make appropriate adjustments during treatment.



### IPL/E-Light-hair removal

Skin Type	Suitable people	Energy	Interval Time	Treatment Session
I-II	European, North American White skin	24J/cm <sup>2</sup>	4-5weeks	4-5 weeks
II-III	Asian yellow skin	20J/cm <sup>2</sup>	4-5weeks	4-5 weeks
III-IV	South east Asian, South American brown skin	18J/cm <sup>2</sup>	4-5weeks	4-5 weeks

### IPL/E-Light-skin rejuvenation

Skin type	For people	Energy level	Intervals	Treatment
I-II	European, South American white skin	25J/cm <sup>2</sup>	3-4 weeks	3-5 times
II-III	Asian, yellow skin	21J/cm <sup>2</sup>	3-4 weeks	3-5 times
III-IV	Southeast Asia, South American brown skin	17J/cm <sup>2</sup>	3-4 weeks	3-5 times

### IPL/E-Light- pigmentation removal

Skin type	For people	Energy level	Intervals	Treatment
I-II	European, South American white skin	24J/cm <sup>2</sup>	3-4 weeks	3-5 times
II-III	Asian, yellow skin	21J/cm <sup>2</sup>	3-4 weeks	3-5 times
III-IV	Southeast Asia, South American brown skin	18J/cm <sup>2</sup>	3-4 weeks	3-5 times

### SHR-hair removal

Skin type	For people	Energy level	Intervals	Treatment
I-II	European, South American white skin	25J/cm <sup>2</sup>	1week	2-3times
II-III	Asian, yellow skin	22J/cm <sup>2</sup>	2weeks	2-3times
III-IV	Southeast Asia, South American brown skin	18J/cm <sup>2</sup>	2weeks	2-3times

### HR-hair removal

Skin type	For people	Energy	frequency	Intervals	Treatment
I	European, South American white skin	7-8 J/cm2 (large Hair) 8-10J/cm2 (Meidum Hair) 9-10J/cm2 (Small Hair)	2Hz	2-3 weeks	4-5times
II	Asian, yellow skin	4-5J/cm2 (large Hair) 5-6J/cm2 (Meidum Hair) 5-6J/cm2 (Small Hair)	3-4Hz	3-4 weeks	4-5times
III	Southeast Asia, South American brown skin	1-2J/cm2 (large Hair) 2-3J/cm2 (Meidum Hair) 2-3J/cm2 (Small Hair)	6-8Hz	4 weeks	4-5times
IV	Southeast Asia, Indian black skin	1J/cm2 (large Hair) 1J/cm2 (Meidum Hair) 1J/cm2 (Small Hair)	5Hz	4weeks	4-5times

### SHR-skin rejuvenation

Skin type	For people	Energy	frequency	Intervals	Treatment
I	European, South American white skin	7-10J/cm2	2HZ	2-3weeks	4-5times
II	Asian, yellow skin	4-6J/cm2	1-2HZ	3-4weeks	4-5times
III	Southeast Asia, South American brown skin	1-3 J/cm2	1HZ	4weeks	4-5times
IV	Southeast Asia, Indian black skin	1-3J/cm2	1HZ	4weeks	4-5times

### SHR–pigmentation removal

Skin type	For people	Energy	frequency	Intervals	Treatment
I	European, South American white skin	7-10J/cm2	2HZ	2-3weeks	4-5times
II	Asian, yellow skin	4-6J/cm2	1-2HZ	3-4weeks	4-5times
III	Southeast Asia, South American brown skin	1-3 J/cm2	1HZ	4weeks	4-5times
IV	Southeast Asia, Indian black skin	1-3J/cm2	1HZ	4weeks	4-5times

### SHR–vascular removal

Skin type	For people	Energy	frequency	Intervals	Treatment
I	European, South American white skin	6-8J/cm2	1HZ	2-3weeks	4-5times
II	Asian, yellow skin	4-6J/cm2	1-2HZ	3-4weeks	4-5times
III	Southeast Asia, South American brown skin	1-3 J/cm2	2HZ	4weeks	4-5times
IV	Southeast Asia, Indian black skin	1-3J/cm2	2HZ	4weeks	4-5times

## **4 MATTER THAT NEEDS ATTENTION**

### **4.1 Installation Environment**

#### **Working Environment:**

- Temperature environment: Do treatment at room temperature around 25 °C, and the room temperature cannot be too low or too high.
- Relative humidity: 80%
- Atmospheric pressure range: 860hPa~1060hPa;
- Power supply: 110~220V+10%, 50/60Hz.

#### **Shipping and storage conditions:**

- Temperature range: -20~60°C
- Relative density range: ≤100%;
- Atmospheric pressure range: 500hPa~1060hPa

### **4.2 Precautions before using**

- Before starting the machine, the water tank must be filled with water and the handle must be inserted.
- Check the buttons to make sure they work.
- When using the machine, keep the CPC inserted all the time and discharge air bubbles
- Every time you change the water, a small amount of water is discharged from the drain and water can flow out.

### **4.3 Precautions during using**

- Please remove the hair before treatment, because the hair absorbs the energy of the laser and generates intense heat, which causes thermal damage to the local epidermis and damage to handle.

- Start with low energy debugging to prevent burns, find the right treatment energy to reach the patient's expected level of treatment.
- Make sure the laser output is in contact with the skin.
- Be sure to keep the sapphire clean during treatment. Any substance that absorbs laser energy on the treatment head will increase in temperature, because it will absorb the laser, resulting in damage to the epidermis and pain

#### **4.4 Precautions after using**

- It is not possible to turn off the machine while the handle is working
- Clean the handle with alcohol after each treatment.
- The machine must be switched off when pulling the handle.
- Change water once a month and use pure or distilled water.

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