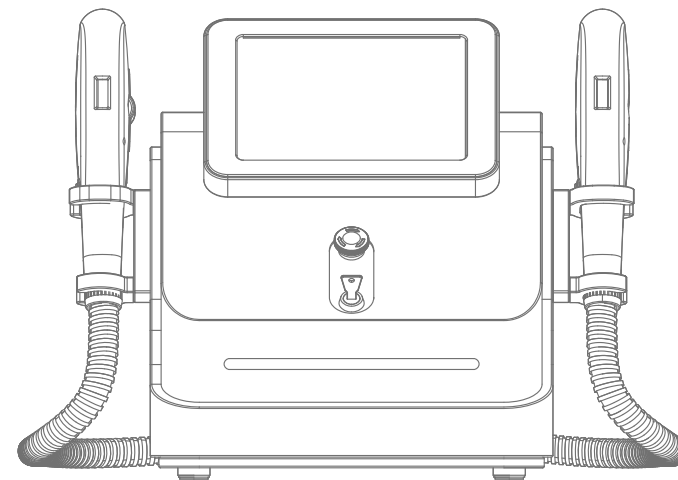


# User Manual

HR-21KT



Please read the instruction manual carefully before use.

This user manual encompasses comprehensive details about the instrument, including an overview, operational principles, installation instructions, and more. You can easily locate the information you need through the provided content index.

This manual is designed to assist operators experienced in beauty device operation in becoming acquainted with this specific device.

## Contents

### Part I

Indications .....	1
Advantage .....	1
Indications and Contraindications .....	2
Risks and Complications .....	2
Precautions.....	3
Working Principle .....	3
Technical Specification .....	4
Main machine Introduction .....	5
Interface Function Introduction .....	7
Unpack and Check .....	13
Post-treatment Care .....	13
Maintenance and Repair .....	14
Troubleshooting .....	16
Packing List .....	17
Treatment Guide .....	17
Warranty Card .....	23

## Indications

Facial anti-aging: Firm the skin and diminish wrinkles.

Facial rejuvenation: Bright a dull complexion, reduce pore size, remove multiple spots on the face including freckles, chloasma, age spots, and other pigmented spots.

Acne mark restoration: Enhances pigmentation and scarring caused by acne, regulates sebum balance, and refines pores.

Eye care: Diminish dark circles around the eyes, reduce under-eye bags, diminish eye wrinkles, and lift the corners of the eyes.

Neck rejuvenation: Improve sagging skin and reduce wrinkles.

Body sculpting and skin firming: Tone the flabby muscles, achieving an attractive body figure.

Overall skin rejuvenation: Improve sagging skin on the arms, legs, waist, abdomen, back, and hips. Diminish wrinkles on the hands and moisturize the skin.

## Advantage

Safety and non-invasiveness: The non-invasive technology ensures a safe treatment without any pain or adverse effects.

Significant effectiveness: The treatment offers a range of benefits, such as skin brightening, rejuvenation, anti-aging, and reduced pore size. Users can witness visible results after the initial treatment, and these results can be sustained for a considerable period.

Cost-effective: Compared to traditional injections and plastic surgery, this treatment is safer and devoid of associated risks.

## Indications and contraindications

**1. Indications: Conditions involving alterations in collagen tissue structure, particularly wrinkles and skin laxity induced by photodamage and photoaging.**

### **2. Contraindications**

- a) Individuals who are exposed to the blazing sun for quite a long time;
- b) People with photosensitive skin and those who are using photosensitizing drugs;
- c) Oral isotretinoin users;
- d) Pregnant women;
- e) diabetic;
- f) People with keloid scars;
- g) Potential skin cancer patients.

## Risks and complications

- 1. Burns: The primary complication of photon therapy is the occurrence of burns of varying degrees.
- 2. Edema: Significant edema may occur, especially when photosensitizing drugs have been used preoperatively.
- 3. Hypopigmentation or Depigmentation: This may occur, particularly in individuals with darker skin tones or those exposed to sunlight.
- 4. Mild Hyperpigmentation: Mild hyperpigmentation may occur in a small number of individuals and is expected to gradually fade over time.

## Precautions

- 1. Thoroughly cleanse the face to remove any makeup residue.
- 2. In the days following the treatment, avoid cleansing the skin with hot water. Instead, use cold water for cleaning while paying attention to hygiene and protection.
- 3. Practice sun protection after the surgery, avoiding direct sunlight.
- 4. Oral isotretinoin users should discontinue drug intake three months before the treatment.
- 5. Refrain from sun exposure or outdoor SPA activities for one month before the treatment. Additionally, avoid irritating treatments such as laser, dermabrasion, or fruit acid peeling in the week leading up to the session.
- 6. Users may experience mild redness or burning after treatment. Using a cold compress can help alleviate discomfort. Consult a doctor if there is persistent discomfort.
- 7. Individuals with the following conditions should consult a doctor before using this device: a history of photosensitivity, skin lesions, immune system abnormalities, pregnancy, and those taking special medications.

## Working Principle

Photon spot removal employs 430-1200nm broad-spectrum color light irradiation on the skin. Target tissues in the skin, such as pigment, hemoglobin in capillaries, and the dermal collagen layer, selectively absorb photon energy. This process induces a specific optical effect, gradually decomposing and absorbing the pigment and expanded capillaries through the body's metabolic processes. The outcome is the treatment of capillary dilatation and pigmented spots, achieving the desired effect of photon spot removal. Since the normal epidermis minimally absorbs photon energy, it remains undamaged during photon spot removal. With 610-950nm broad-spectrum color light

irradiation on the skin, the pigment in the hair shaft and hair follicles selectively absorbs the light, leading to a photothermal effect. This damages the hair follicles, thereby achieving a lasting hair removal effect through photon removal.

Longer-wavelength photons in the broad-spectrum intense pulsed light stimulate the rearrangement and augmentation of collagen and elastic fibers in the skin, leading to increased skin elasticity. Simultaneously, it improves the function of blood vessel tissue and enhances circulation. The combined effects of these actions allow photon freckle removal to achieve therapeutic benefits, including wrinkle elimination and pore size reduction.

## Technical specification

Product dimensions: 45x66x52cm

Net weight: 30.55KG

Gross weight: 41.3KG

Packing dimensions: 58x64x52cm

Spectral range: 430-1200nm for skin rejuvenation/610-950nm for hair removal

Power: 1000W (3\*12000uf capacitor)

Maximum pulse: 30ms / Fast mode: 8ms

Output load: pulsed xenon lamp with pole spacing of 50~110mm

Output Voltage: 0~400V

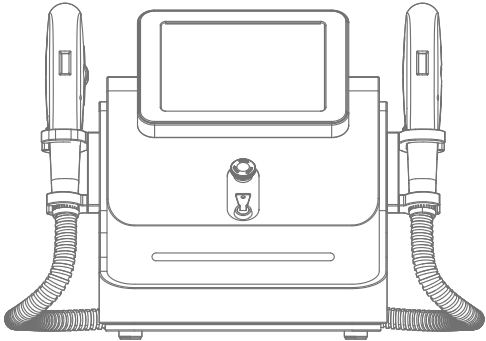
Frequency: 2.5Hz/s

Spot size: Imported lamp 15\*40mm fixed wave (430-1200nm skin rejuvenation/610-950nm hair removal)

Input voltage: 220VAC±15%,110VAC±15%

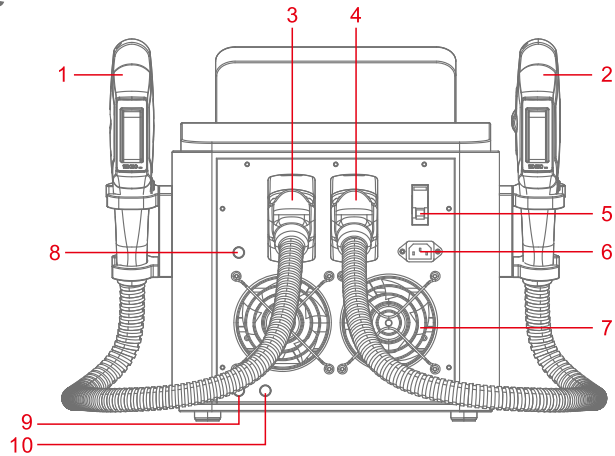
## Main Machine Introduction

### 1.The front side



Name		Description
1	Display	Touchscreen for control
2	Holder for HR handle	Support the handle
3	Holder for SR handle	Support the handle
4	Emergency stop button	In case of emergency, press this button
5	Key switch	Turn on/off the device
6	Indicator	The indicator light is illuminated to signify that the device is powered on.

2.The back side

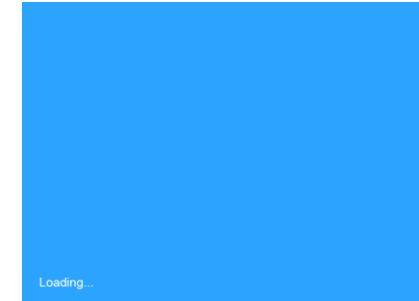


Name		Description
1	HR handle	12*30mm 610-950nm wavelengths
2	SR handle	15*50mm 430-1200nm wavelengths
3	Aviation plug of HR handle	Attach the handle to the main unit.
4	Aviation plug of SR handle	Attach the handle to the main unit.
5	Leakage switch	Protect the internal circuitry of the main unit.
6	Power cord socket on the main unit	Insert the plug of power cord into it.

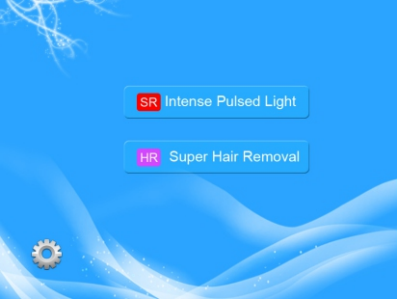
Name		Description
7	Fan	120#fan*2
8	Water inlet	Please fill up with water (distilled water) before use
9	Water outlet	Keep it open during transportation and water change.
10	Water overflow	Automatically releases excess water when filled (keep it open during operation)

Interface Function Introduction

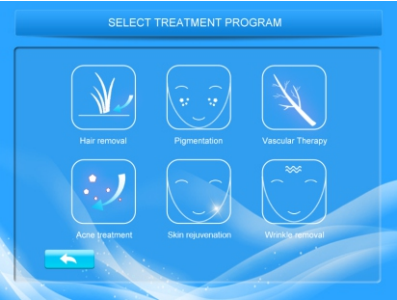
1.The screen displays the following Loading Interface upon startup.  
The loading interface appears for 5-15 seconds, representing the self-test process of the instrument.



2.Then, the display will automatically transition to the following main menu:



3.Tap  to enter the treatment selection interface, as shown below:



4.Tap  to enter the Hair Removal interface, as shown below:



Name		Description
1	IPL energy level	Adjust the energy level from 1 to 50J.
2	Cooling	Set the cooling intensity
3	Ready	Start the treatment
4	Standby	Pause the treatment
5	Back	Return to the previous page
6	Count	The 'Total Shots' represents the shots used in the current treatment, while 'Shots Used' indicates the cumulative total shots for all treatments.
7	Status bar	From left to right: Temperature, Voltage, Charging, Handle activity, Discharging

Name		Description
8	Pulse Parameters	From left to right: Number of pulses, initial pulse width, delay 1, sub-pulse width, delay 2, and cycle time.
9	Mode selection	ABCD four modes, A represents light skin, while D represents dark skin, with a gradient of increasing darkness from A to D.

5. Tap **HR Super Hair Removal** to enter the treatment selection interface, as shown below:



Name		Description
1	Pulse Width	Operating time of the initial pulse
2	Status bar	From left to right: Temperature, Voltage, Charging, Handle activity, Discharging
3	Count	The 'Total Shots' represents the shots used in the current treatment, while the 'Shots Used' indicates the cumulative total shots for all treatments.
4	Ready	Start the treatment
5	Standby	Pause the treatment
6	Cooling	Set the cooling intensity
7	Back	Return to the previous page
8	IPL energy level	Adjust the energy level from 1 to 50J.
9	Frequency	Set the frequency from 1 - 10Hz.

6. SR handle and HR handle



Achieve permanent hair removal without recurrence, suitable for all skin types: The SHR Ice Laser is designed for all skin types, providing a permanent hair removal effect without recurrence. Simultaneously, it reduces pores and enhances overall skin texture. No harm to sweat glands and pores, suitable for oriental skin: The nano-scale beams of light are gentle on human skin, avoiding harm to sweat glands and pores. Furthermore, the unique ice condensation technology effectively tightens the skin, resulting in a brighter and more delicate complexion.

7.Different effects of the 5 filters

430nm: Acne removal

480nm: Wrinkle removal

530nm: Spot removal

530nm: Complexion brightening and skin rejuvenation

590nm: Facial redness removal

Acne removal: Eliminate acne, pimples, and blemishes.

Spot removal: Remove freckles, sun spots, age spots, acne marks, and facial blemishes.

Skin rejuvenation: Improve enlarged pores, rough skin, and fine wrinkles, restoring skin elasticity.

Treatment of capillary dilatation: Address redness and facial flushing.

Improve dullness of the face, making the skin fair and even in color.

Wrinkle removal: Promote elastic fiber rearrangement, eliminate fine wrinkles, stimulate collagen proliferation, enhance skin elasticity, and address issues like dull complexion and skin laxity.

Advantages in technique

- 1.Short treatment time: Each session requires only 20-30 minutes.
- 2.Non-invasive: The procedure causes no trauma to the skin tissue.
- 3.No pain: Anesthesia is unnecessary, with only a slight burning sensation during the treatment.
- 4.No aftercare: There's no need for special post-operative care, and you can apply makeup immediately after the procedure.

Unpack and Check

- 1.Carefully take out the instrument and accessories from the box, and keep the packing materials for future transportation or storage. Check the packing list to ensure all accessories are included.
- 2.Inspect for any mechanical damage.

If any issues arise, please contact our sales department or agent promptly.

- 3.Position the instrument in a clean, ventilated room with a temperature range of 5 °C -40 °C, humidity not exceeding 50%, and avoid direct sunlight. Ensure the ventilation openings are unobstructed, leaving at least 10cm of clearance around the instrument. Never place objects on the instrument, even temporarily.

Post-treatment Care

- 1.For those who have undergone spot removal treatment, allow the skin to naturally return to its normal state. Follow the physician's advice, use a healing cream until the skin's surface lines have completely healed. Apply the cream 3-4 times a day. Avoid facial cleansers with fruit acids, soaps, or



other treatments before applying the cream. Use a non-foaming cleanser on the treated area and dry it with a paper towel before applying the healing cream.

2.Avoid using low-quality cosmetics or products with poor ingredients after spot removal treatment. Refrain from using peeling or hormone products.

3.Refrain from exfoliating for at least 6 months post-treatment. Avoid hot springs within the first 6 months. During the daytime, use sunscreen, and minimize direct exposure of the skin to the sun when going outdoors.

**Advantages in effect**

Achieve a smoother complexion, imparting a healthy glow to the face. Visibly refine and reduce fine wrinkles on the face. Diminish long-standing acne marks for a clearer skin appearance. Eliminate redness and red spots, preventing facial redness and embarrassment. Significant reduction of color spots, leaving the face radiant both inside and out.

**Maintenance and Repair**

**1.Maintenance**

- (1)Daily Inspection: Operators must perform a daily check on the device and its parts.
- (2)Ensure the power socket is grounded; replace it immediately if not.
- (3)Inspect the power cord for deformities or breakages; If there are any deformities or breakages replace it promptly to prevent electrical leakage and potential fire hazards.
- (4)Check for abnormalities in the treatment handle and its cable: replace it immediately if damaged.
- (5)Cease device usage if abnormal prompts appear.

**2.Cleaning**

Wipe the device with a dry, soft cloth and remove stains with a soft, damp cloth. Before cleaning, ensure the device is powered off and the power cord is disconnected.

**3.Fuse Replacement**

- (1)Turn off the power switch.
- (2)Unplug the power supply.
- (3)Use a screwdriver to take off the fuse slot.
- (4)Replace the broken fuse with a new one.
- (5)Put the fuse slot back.
- (6)Plug in the power cord.



**Warning!**

The power cord must be unplugged during the fuse replacement, as this may cause electric shock.

## Troubleshooting

- 1.If the device works abnormally, do not disassemble it, please get in touch with our customer service department or our office in the region to detect the failure.
- 2.Before seeking maintenance, consult the following table to troubleshoot issues independently.

Symptom	Possible Cause	Solution
Fail to turn on the device.	1.The power cord is disconnected from the socket. 2.The Leakage switch remains off. 3.The fuse is broken.	1.Verify the voltage compatibility(220V) and ensure the device's power cable is securely connected to the power socket. 2.Refer to the Main Machine Introduction. 3.Replace fuse rated at 10A or 20A.
The button on the handle is not working.	Check if the Ready button is on.  Check if the handle is attached correctly.  The button is broken.  Improper installation	Tap the Ready button.  Attach the handle correctly.  Repair the button.  Replace the button.
The device is not working normally.	Please ask for a detection by a professional.	Contact the dealer.

## Packing List

### Component list

Component	Unit/Quantity	Note
Main machine	1 pc	
1.5² Power Cord	1pc	
Fuse 10A	2 pcs	220V 10A 110V 15A
Funnel	1pc	
User manual	1pc	
HR handle14*40mm	1pc	wavelength 610-950nm
SR handle14*40mm	1pc	wavelength 430-1200nm
Handle holder + screws	2 sets	
Eyeglasses + eye mask	1 set	
Filter	5 pcs	430nm 480nm 530nm 560nm 590nm

## Treatment Guide

### Body hair removal

### 1.Effect

Remove unwanted hair from the treatment area.

### 2.Treatment operation

Preparation: Razor, disposable towels, tissues, gels, mask scraper

1.Parameters setting: Select Super hair removal

Recommended Pulse width: 3ms

Recommended Frequency: 3Hz

Recommended energy level: 20J

Recommended cooling intensity: 5

2.Shave the treatment area with the razor.

3.Clear away the shaved hair.

4.Apply a generous layer of gel to the treatment area.

5.Provide goggles for the client.

6.The operator must wear goggles as well.

7.Utilize a stamping technique to cover the entire area, starting horizontally and then moving vertically (5-8 times).

8.Scrape off the gel using the scraper and wipe away any residue with tissues.

### 3.Care after treatment

1.Follow a healthy daily routine post-operation and balance work with rest.

2.Avoid steam sauna, hot springs, swimming, and sun exposure for the next 7 days.

### 4.Treatment schedule

Take 1 session every 22 - 32 days, complete 6 - 12 sessions in total, and customize the treatment schedule based on the individual's condition.

### Facial hair removal

#### 1.Effect

Remove unwanted hair from the face.

#### 2.Treatment operation

Preparation: Wash basin, disposable bag, disposable washcloth, mask scraper, razor, make-up remover, cleanser, toner, essence, gel, facial mask, lotion/cream, sunscreen

1.Remove makeup and cleanse the skin.

2.Shave the treatment area with the razor.

3.Clear away the shaved hair.

4.Apply the gel uniformly with a thickness of around 0.5cm.

5.Provide goggles for the client.

6.Parameters setting:

Select Intense pulsed light

Select Hair removal

Mode selection: A (select according to the client's skin tone)

Energy: 20J

Recommended cooling intensity: 5

**Note:** The handle for this treatment is the HR Handle.

- 7.The operator must wear goggles as well.
- 8.Start at the chine area, utilize a stamping technique to cover the entire area, starting horizontally and then moving vertically (5-8 times).
- 9.Scrape off the gel using the scraper and wipe away any residue.
- 10.Apply a mask to the face.
- 11.Cleanse face, 2 minutes.
- 12.Apply toner, essence, lotion/cream, sunscreen.

**3.Care after treatment**

- 1.If you have used topical A-acid ointment or blemish-removing products before the operation, it is recommended to discontinue the medication for 1 week before undergoing Skin Rejuvenation.
- 2.Refrain from undergoing laser, dermabrasion, or fruit acid skin resurfacing beauty treatments one week before and after the operation.
- 3.Follow a healthy daily routine post-operation and balance work with rest.
- 4.Apply at least one hydrating mask every day for one week after treatment and avoid using skincare products and cosmetics containing irritants such as fruit acids, salicylic acid, and alcohol.
- 5.Avoid steam sauna, hot springs, swimming, and sun exposure within 7 days.
- 6.Enhance sun protection by using physical sunscreen when going out, such as carrying an umbrella.

**4.Treatment schedule**

Take 1 session every 22 - 32 days, complete 6 - 12 sessions in total, and customize the treatment schedule based on the individual's condition.

**Skin rejuvenation treatment (590/560/530/480/430nm)**

**1.Efficacy**

- 1.Reduce skin imperfections and minimize pores.
- 2.Address dull skin tone and pigmentation issues.
- 3.Boost skin elasticity to combat aging.
- 4.Smooth superficial wrinkles and refine skin texture.
- 5.Efficiently rejuvenate the skin, addressing wrinkles and spots.
- 6.Improve capillary dilatation and reduce redness.
- 7.Possess antiseptic and anti-inflammatory properties, aiding in acne prevention.

**2.Treatment operation**

Preparation: Wash basin, disposable bag, disposable washcloth, mask scraper, razor, make-up remover, cleanser, toner, essence, gel, facial mask, lotion/cream, sunscreen

- 1.Remove makeup and cleanse the skin.
- 2.Apply the gel uniformly with a thickness of around 0.5cm.
- 3.Provide goggles for the client.
- 4.Parameters setting:  
Select Intense pulsed light

Select required function

Mode selection Select according to the client's skin tone.

Energy: 20J

Recommended cooling intensity: 5

5.The operator must wear goggles as well.

6.Start at the chine area, utilize a stamping technique to cover the entire area, starting horizontally and then moving vertically (5-8 times).

7.Scrape off the gel using the scraper and wipe away any residue.

8.Apply a mask to the face.

9.Cleanse face, 2 minutes.

10.Apply the toner, essence, lotion/cream, sunscreen.

3.Care after treatment

- 1.If you have used topical A-acid ointment or blemish-removing products before the operation, it is recommended to discontinue the medication for 1 week before undergoing Skin Rejuvenation.
- 2.Refrain from undergoing laser, dermabrasion, or fruit acid skin resurfacing beauty treatments one week before and after the operation.
- 3.Follow a healthy daily routine post-operation and balance work with rest.
- 4.Apply at least one hydrating mask every day for one week after treatment and avoid using skincare products and cosmetics containing irritants such as fruit acids, salicylic acid, and alcohol.
- 5.Avoid steam sauna, hot springs, swimming, and sun exposure for the next 7 days.
- 6.Enhance sun protection by using physical sunscreen when going out, such as carrying an umbrella.

4.Treatment schedule

Take 1 session every 22 - 32 days, complete 6 - 12 sessions in total.

Warranty Card

Maintenance Record			
Product Name		Purchase Date	
Dealer		Phone number	
Dealer's Address			
Customer's name		Phone number	
Customer's address			
Repair Date	Cause	Repair Content	