

# User Manual

HR-GX001



# Preface

Dear Users:

We're pleased to present to you *Latest 808nm Diode Laser Painless Permanent Body Face Hair Removal Machine*. It works on removing hair permanently without damaging any skin tissues. It adopts the primary principle of selective photothermolysis by causing localized damage on target area of unwanted hair without damaging the rest of the skin. We aim at a safe and, at the same time, effective beauty result by using high-end technologies. *Latest 808nm Diode Laser Painless Permanent Body Face Hair Removal Machine* is for professional use only, which needs to be handled by professionals with proper training. Any improper use will result in adverse consequences. Therefore we advise any personnel read this guide thoroughly and apply with the instructions strictly before operation.

We believe our quality product will bring in good returns on your end. Also, you can count on our worry-free after-sales service.

Thank you!

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# Part I

## Brief Introduction

*Latest 810nm Diode Laser Painless Permanent Body Face Hair Removal Machine* works on removing unwanted hair on limbs, underarms, chest, back, upper lip, abdomen, neck, hairline, and bikini line. It applies with the theory of ergonomics in design so that it not only saves effort when using but also comes with better and more visible effects. Laser hair removal machines are currently the most popular hair removal machines on the market, which make them good replacement of hair removal through chemical or physical means in beauty parlors. We aim at a safe and, at the same time, effective beauty result by using high-end technologies. What's more, no injection, medication, or surgery is required. It also has no side effects and has immediate results. The entire process is conducted externally. *Latest 808nm Diode Laser Painless Permanent Body Face Hair Removal Machine* adopts the primary feature of selective photothermolysis, achieving perfect results of hair removal without damaging skin epidermis by using the sapphire cooling technology.

## Advantages

1. Wide treatment area, high efficiency, and fast speed.
2. Efficiently remove hair of different color and texture (e.g. brown, dark brown, black).
3. Non-invasive treatment with higher level of safety.
4. No injection, no medication, no side effects and fast result.
5. Cooling down to 4°C; without pain.
6. Target on hair of different colors; more visible results with fine hair.
7. No downtime: no effect on daily life and work.
8. Remove hair permanently.

## Working Principle

Laser hair removal adopts the working principle of photothermal dynamics. Laser waves travel into the root of hair follicles through epidermis, where pigment in the follicles absorb the light and transform to heat to destroy hair in its anagen period while leaving the surrounding skin undamaged.

Laser hair removal is the perfect combination of hair removal in any technical perspective. Firstly, the sapphire cooling technology protects the epidermis from damaging while at the same time transports highly concentrated light into hair follicles; secondly, adjustable pulse duration (pulse width) can make sure the targeted cells produce enough heat to solidify without affecting surrounding cells; thirdly, the proper energy density level can guarantee there's enough energy output to destroy

cells while leaving the neighboring cells intact.

## Full-body Hair Removal

### Main Effects

1. Remove unwanted hair on limbs.
2. Adjust hairline on forehead and neck.
3. Remove fine hair on chest and back.
4. Remove facial fine hair, smooth skin.
5. Remove hair around mouth and chin.

### Applicable Range

1. Those with excessive hair growth on limbs.
2. Those with unwanted hairline on forehead.
3. Those with unwanted hairline on neck.
4. Those with excessive hair growth around mouth and chin.
5. Those with excessive hair growth on face and uneven skin tone.
6. Those with excessive hair growth on body and private parts.

### Inapplicable Range

1. Those in pregnancy and lactation; those with heart disease, malignant tumor, folliculitis, vascular disease, severe hyperlipidemia, hypertension, hyperglycemia, and other serious diseases.
2. Those with abnormal metabolism of collagen cells, including history of scar and poor wound healing.
3. Those with infected treatment area, herpes simplex, and skin lesion, etc.
4. Those who have just undergone plastic surgery with unhealed wounds.
5. Those who are having allergic reactions.
6. Those with pacemakers.
7. Those who are photosensitive (solar urticaria, lupus erythematosus), and experience swelling, itch and redness when exposed under the sun.
8. Those who have just undergone photoelectric therapy in 30 days.
9. Those who are in their childhood, not yet hit puberty or under 18.

### Notes after Operation

1. No contact with hot water on treatment area in 6 hours.
2. Avoid sauna, hot spring and swimming in 7 days.
3. If redness appear on face, wait for 1 day before applying make-ups.
4. Use sun protection, such as sunscreen or umbrella after treatment.

5. Avoid applying any products that contain irritating ingredients(e.g.alcohol, acid) on body and limbs in 3 days.

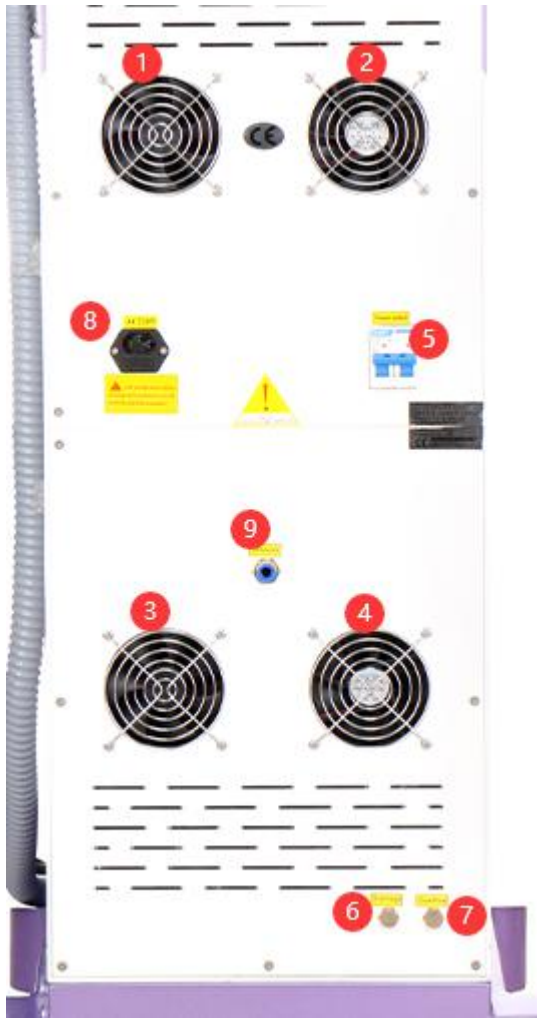
## Part II

### 1. Detailed Operation



- ①Power switch (key)
- ②Button to turn on the machine
- ③Hair removal handpiece

**Note:** ①② must be on at the same time or else the machine cannot function properly.



- ① Air outlet
- ② Air outlet
- ③ Air outlet
- ④ Air outlet
- ⑤ Master valve (Power will be turned off if you switch ⑤ off)
- ⑥ Outflow
- ⑦ Overflow
- ⑧ Power jack
- ⑨ Inflow



**Note:** Please press the button (indicated by the red arrow) to operate.

After checking that the instrument is connected properly, the following starting interface will appear when the power supply is turned on.



The following interface appear below:





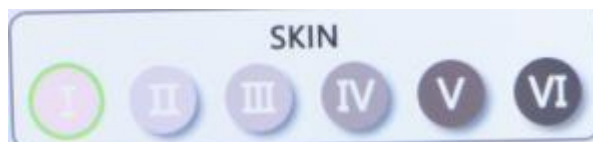
## 1. Function Selection



Male Hair Removal



Female Hair Removal



Skin Tone

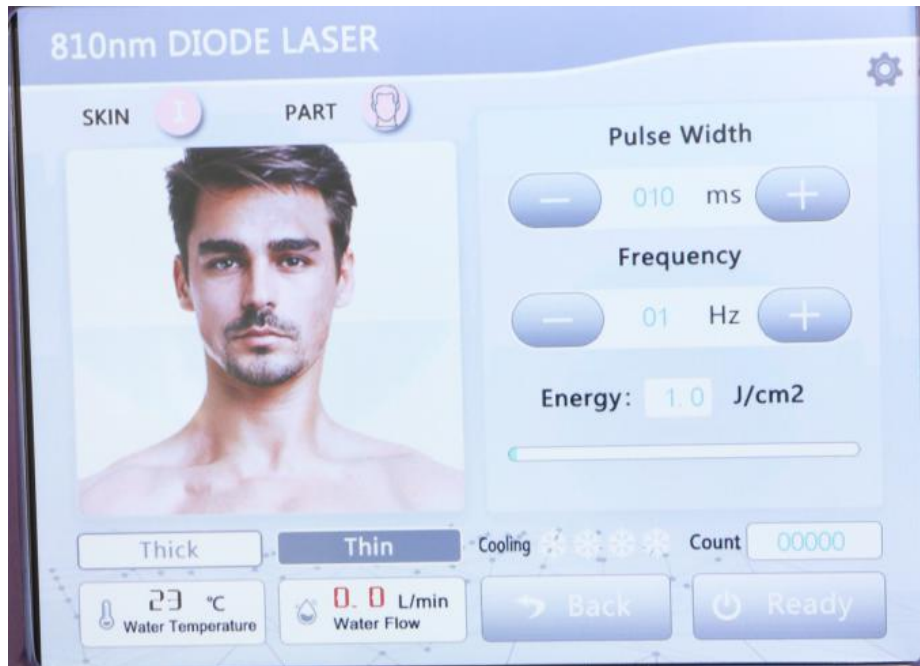


Body Part

## 2. Detailed Operation: Male Hair Removal



Click [MAN](#) to go to the interface below



SKIN I Skin Tone I

SKIN II Skin Tone II

SKIN III Skin Tone III

SKIN IV Skin Tone IV

SKIN V Skin Tone V

SKIN VI Skin Tone VI

PART Face

PART Chest

PART Abdomen



Back



Arm



Leg



Pulse Width: The maximum width is 400. It is advised to start from 20-30



Frequency: The maximum frequency is 10. It is advised to start from 2-5



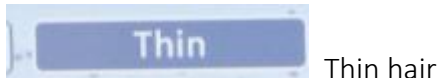
Pulse Width & Frequency +/-



Energy: The maximum energy level is 40. It is advised to start from 10-15



Thick Hair



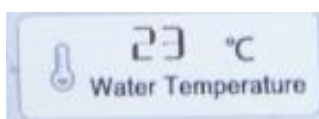
Thin hair



Handpiece Temperature: 4 snowflakes stand for the lowest temperature



Count



Machine Temperature Display



Water Flow (Insufficient water volume or blocked water circulation will result in abnormal water flow)

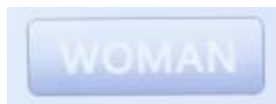


Back



Start/Pause

### 3. Detailed Operation: Female Hair Removal



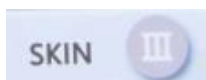
Click to go to the interface below



Skin Tone I



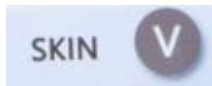
Skin Tone II



Skin Tone III



Skin Tone IV



Skin Tone V



Skin Tone VI



Face



Chest



Abdomen



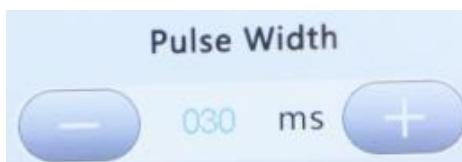
Back



Arm

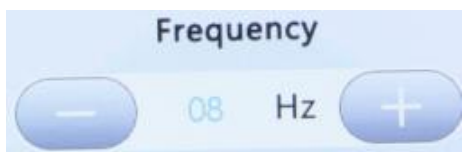


Leg



advised to start from 20-30

Pulse Width: The maximum width is 400. It is



advised to start from 2-5

Frequency: The maximum frequency is 10. It is

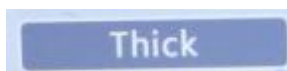


Pulse Width & Frequency +/-

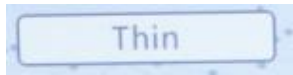


advised to start from 10-15

Energy: The maximum energy level is 40. It is



Thick Hair



Thin hair



Handpiece Temperature: 4 snowflakes stand for the lowest temperature



Count



Machine Temperature Display



Water Flow (Insufficient water volume or blocked water circulation will result in abnormal water flow)



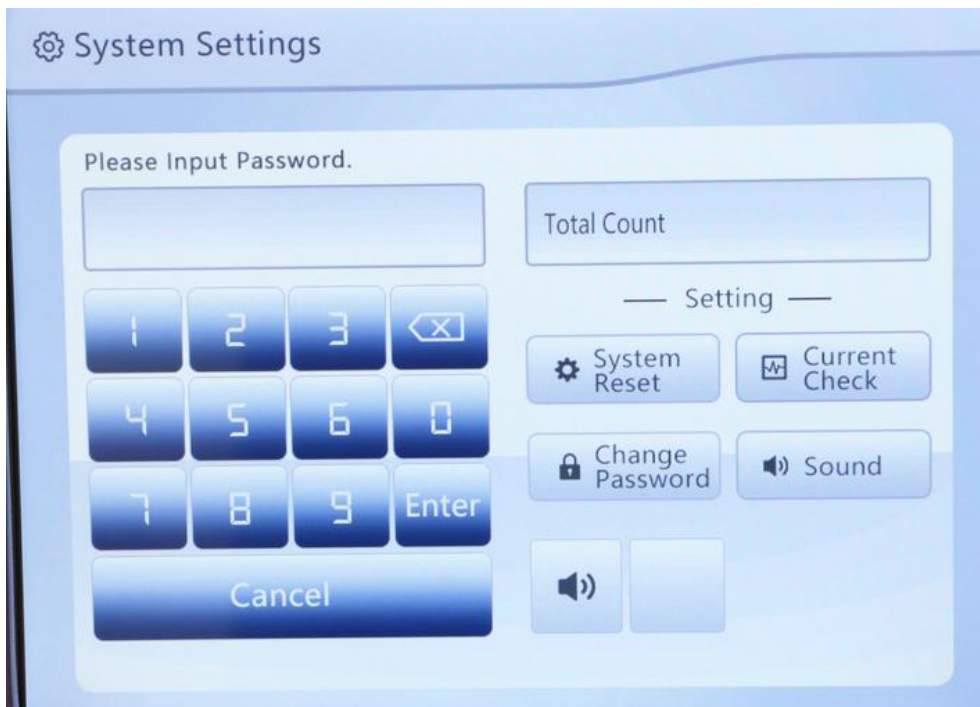
Back



Start/Pause



Click to go to the interface below



### Energy Level Range:

Body Parts	Energy (A)	Optical Efficiency (HZ)	Time (ms)
Underarms	25~40	3~8	10
Arms	30~55	2~5	25
Legs	30~50	2~5	30
Lip,Chin	30~45	3~5	10
Face	30~45	3~5	15
Hairline	25~40	3~8	15
Bikini line	25~40	3~8	15
Other parts	30~55	2~5	20

Note: The above data are for reference only and they could be adjusted subjecting to clients' comfort level to avoid scald.

Pulse Width (ms)	Frequency (Hz)
10-40	1-10
41-44	1-9
45-50	1-8
50-57	1-7
58-66	1-6
67-80	1-5
81-100	1-4
101-133	1-3
134-200	1-2
201-400	1

For instance: When pulse width is at 200, the maximum frequency would be at 2.

## 2. Technical Parameters

Laser type: semiconductor laser

Laser wavelength: 810nm

Working frequency: 1--10Hz adjustable

Operating language: English

Output mode: pulse output

Shell material: ABS plastic + metal

Cooling system: semiconductor refrigeration + water + air cooling constant temperature cooling

Handle temperature: -10--5°C

Supply voltage: AC220V, AC110V (can be customized)

### **3. Safety Precautions**

1. Those in pregnancy and lactation; those with heart disease, malignant tumor, folliculitis, vascular disease, severe hyperlipidemia, hypertension, hyperglycemia, and other serious diseases.
2. Those with severe varicosities or tumors.
3. Those with sensitive skin or who are photosensitive.
4. Avoid wearing jewelries that contain metals during the process.
5. Those who are in their childhood, not yet hit puberty or under 18.
6. Avoid using the device around areas that contain metal, plastic or silicon, etc.
7. Those with abnormal metabolism of collagen cells, including history of scar and poor wound healing.
8. Those with infected treatment area, herpes simplex, and skin lesion, etc.

### **4. Cautions after Treatment**

1. Avoid using device on the following treatment areas: moles, tattoos, large dark spots, metals (including dental braces), and facial prosthesis.
2. Avoid staying on one spot for over 3 seconds in case of scald.
3. Keep probe close to the skin to avoid any discomfort.
4. Avoid wearing jewelry or other accessories that contain metals.
5. Wait for a month before treatment if the same area had undergone photoelectric therapy within a month.
6. Wait for 15 days if you have recently experienced sunburn or planning a vacation containing sun bathing.
7. Avoid using the device on eyebrows or eyelashes.
8. Turn off the device for 5-10 minutes if it's been on for 2 consecutive hours to further prolong its life expectancy.
9. Place the device wherein it's cool, dry and ventilated; avoid direct sunlight, high temperature or water splash.
10. Wipe clean the device and handle with saline after one treatment to further prolong its life expectancy. (Do not use alcohol for cleaning.)
11. Make sure to press the power button and unplug the device.



## 5. Troubleshooting & Solutions

### 1. Power does not turn on and the key lamp on the back of the device doesn't work?

- A. Ensure that the power cord is connected to a working power outlet.
- B. Ensure the fuse tube on the back of the instrument is not loose or being burnt.
- C. Check if the emergency stop machine is on.

### 2. There's no light coming from the handpiece?

- A. Check if the parameters are set at proper level and if the device is turned on.
- B. Turn off the device and restart.
- C. Check if the button light next to the key is on.
- D. Seek help from the distributor if the above method cannot address the issue.

### 3. The instrument just stopped automatically during operation?

- A. Please check whether the water temperature on the display is lower than 10°C or higher than 35°C.
- B. Please check that the water flow on the instrument display is all lower than 3.5L/min.
- C. Seek help from the distributor if the above method cannot address the issue.

## 6. FAQs

### 1. Q: Can I remove hair permanently with one treatment?

A: No, however it can be achieved with one full course of treatment. It is advised to do it once every 3-6 weeks (time span varies among different parts of the body). Hair growth consists of 3 periods, namely anagen, catagen and telogen phase. Hair removal works best during anagen phase. Owing to the fact that time span of hair growth varies among different parts of the body, and that's why we'll provide you with a customized treatment plan according to your hair growth, hair density on different parts of the body.

### 2. Q: Is it harmful to skin?

A: You can be reassured that it is without harm. Its working principle is selective photothermolysis, which means that laser wave of 808nm only works on melanin of follicles without damaging other cells. (In another word, 808nm wave absorbs only melanin in hair follicles while there's no melanin around neighboring skin cells, therefore no harm will be done.)

### 3. Q: Is hair going to appear darker?

A: After the laser hair removal treatment, the remaining hair will appear finer and lighter, instead of the opposite. While for those who choose waxing, plucking, scraping

or hair removal cream, hair will appear darker, thicker and harder after long term usage.

**4.Q:Does laser hair removal work on anyone?**

A: Despite of its wide application range, it does not apply to everyone. Those who have the following conditions should avoid such treatment:

1. Those who have a medical history of scars and lumps.
2. Those who are currently or previously affected with herpes simplex virus.
3. Those who have tried hair removal using other methods within 6 weeks.
4. Those who are allergic to benzodiazepines and bleach.
5. Those who are prone to allergies.

**5.Q:Is there a good season for hair removal?**

A: Generally speaking, Pro 808nm laser hair removal leaves no scar, and requires no recovery time, which means it could be done any time of the year. But it does take multiple treatments, so it is advised to do it as early as possible so that you can look gorgeous without worries.

**6.Q:Can I go sun bathing right after hair removal treatment?**

A: It is advised not to because cuticles will shed together with hair follicles, in which case skin protection level is relatively low.

## **7.Packing List**

1 x Main unit

1 x Key

1 x Funnel

1 x Foot attachment

1 x Handle

1 x Power line

## **8.Operational Diagrams**

Parameters	Product	Techniques	Diagrams
<b>Facial Hair Removal: 30 min, once/month</b>			
Energy: 30-45  Frequency: 3-5  Temperature: 2-3/snowflakes	Makeup remover+ Cleanser+ Toner+ Razor+ Gel	<ol style="list-style-type: none"> <li>1. Remove makeup and clean, 5 min.</li> <li>2. Apply toner, 1min.</li> <li>3. Shave off all the facial thin hair with razor, 2-3 min.</li> <li>4. Apply a layer of gel that is the thickness of a coin evenly on the face, 1 min.</li> <li>5. Put on protective eyewear for the customer; the operator should wear protective goggles too.</li> <li>6. Select skin tone, body part; Adjust energy, frequency, hair thickness, temperature and start operation.</li> <li>7. Device operation: Start from chin, move the probe upward towards forehead using stamp technique to cover the whole face, 3-4 times.</li> <li>8. Do the same on the other side.</li> <li>9. Remove the protective eyewear.</li> <li>10. Scrape off the gel.</li> <li>11. Wash face clean, 2 min.</li> <li>12. Apply toner, essence, cream and sunscreen.</li> </ol>	No diagrams
<p><b>Suggested Treatment:</b>            No obvious changes will be observed after just one treatment. After 2-3 times, hair growth rate slows down, and hair appears to be finer. Obvious decrease of hair</p>			

regrowth is appeared after 4-6 times, especially at densely hair area. 7-10 treatments brings you hair-free experience. Touch-up treatments can be conducted for consolidating the results.

## Full-body Hair Removal: 60 min, once/month

<p>Energy Level: Arms: 30-55 Underarms: 25-40 Legs: 30-50</p> <p>Frequency: Arms: 2-5 Underarms: 3-8 Legs: 2-5</p> <p>Temperature: 2-3/snowflakes</p>	<p>Razor+ Gel</p>	<p><b>Arms</b></p> <ol style="list-style-type: none"> <li>1. Shave arm: shape hair on arms and fingers with razor.</li> <li>2. Apply a layer of gel that is the thickness of a coin evenly on one arm.</li> <li>3. Put on protective eyewear for the customer; the operator should wear protective goggles too.</li> <li>4. Select skin tone, body part; Adjust energy, frequency, hair thickness, temperature and start operation.</li> <li>5. Device operation: Move slowly from upper arm to lower arm in lines with one line next to another, 3-5 times.</li> <li>6. Scrape off the gel and wipe it clean with paper tissue.</li> <li>7. Apply gel evenly on fingers, 1 min.</li> <li>8. Device operation: use stamp technique to operate on fingers, 3-5 times.</li> <li>9. Scrape off the gel and wipe it clean with paper tissue.</li> <li>10. Do the same on the other side.</li> </ol> <p><b>Underarms</b></p>	<p>No diagrams</p>
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		<p>11. Shave underarm: shape hair of underarm and fingers with razor.</p> <p>12. Apply a layer of gel that is the thickness of a coin evenly on underarm.</p> <p>13. Select skin tone, body part; Adjust energy, frequency, temperature and start.</p> <p>14. Device operation: Move along the entire underarm, 3-5 times.</p> <p>15. Scrape off the gel and wipe it clean with paper tissue.</p> <p>16. Do the same on the other side.</p> <p><b>Legs</b></p> <p>17. Shave legs: shape hair on legs and tones with razor.</p> <p>18. Select skin tone, body part; Adjust energy, frequency, temperature and start.</p> <p>19. Apply a layer of gel that is the thickness of a coin evenly on one leg.</p> <p>20. Device operation: Move slowly from thigh to calf in lines with one line next to another, 3-5 times.</p> <p>21. Scrape off the gel and wipe it clean with paper tissue.</p> <p>22. Device operation: Use stamp technique to operate on toes, 3-5 times.</p> <p>23. Wipe gel off with paper tissue.</p> <p>24. Do the same on the</p>	
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		other side.	
<b>Suggested Treatment:</b> No obvious changes will be observed after just one treatment. After 2-3 times, hair growth rate slows down, and hair appears to be finer. Obvious decrease of hair regrowth is appeared after 4-6 times, especially at densely hair area. 7-10 treatments brings you hair-free experience. Touch-up treatments can be conducted for consolidating the results.			