

LASERLITE HP

980nm +1064nm double wave diode laser machine

Manual



Attention

Respected user:

Thank you for choosing the instruments which carefully designed and manufactured by our company.

In order to better utilize the product, we sincerely recommend:

- ◆◆ Please read this manual carefully before using the instrument.
- ◆◆ Please install, use and operate correctly according to the requirements in the manual.
- ◆◆ Do not disassemble or modify any parts of this machine.
- ◆◆ Except for authorized personnel of the company, it is strictly forbidden to open the cover and

disassemble the host.

- ◆◆ Non-professionals are strictly forbidden to carry out repairs and renovations.
- ◆◆ If there is any malfunction during the operation, please contact us.

Safety Precautions

- ◆◆ The naked eyes cannot directly look at the direction in which the laser is thrown.
- ◆◆ Laser projection can not be aligned with any part of the human body or flammable items.
- ◆◆ The laser output can be viewed from the side of the phone camera.
- ◆◆ Operation must be in accordance with the national laser operation level IV to protect.



980nm +1064nm double wave diode laser machine

【1】 Product Appearance



【2】 Part lists

		
Machine 1	Physiotherapy plug 1	Laser safety glasses 1
		
Power line 1	Foot switch 1	Case 1

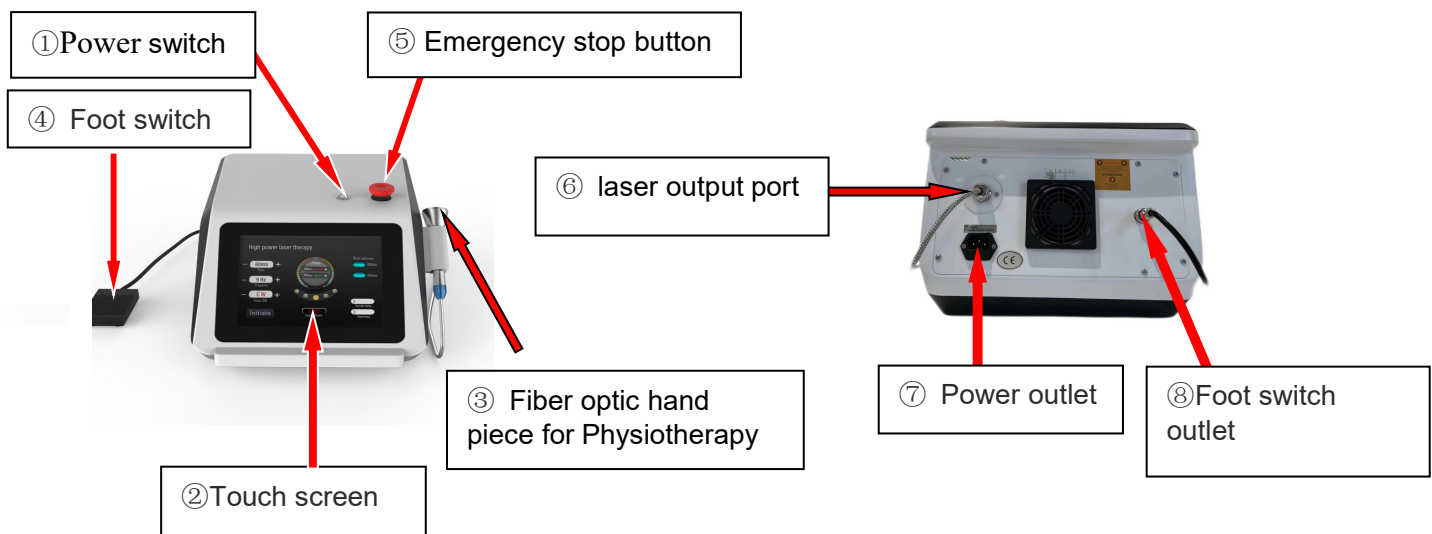
【3】 Treatment theory

980nm +1064nm double wave semiconductor fiber-coupled laser to generate thermal energy stimulation through lens focusing illumination, and uses the biological effects of laser to act on the human body, enhance capillary permeability and increase ATP production. (ATP is for cell repair. And regenerating a high-energy phosphate compound that supplies the energy needed, injured cells can't make it at the optimal speed), activate healthier cells or tissues, achieve analgesia, accelerate tissue repair, and heal. The laser energy of the instrument automatically stops when the temperature reaches a certain temperature during operation, avoiding burns, safe and comfortable.

【4】 Technology Parameters

Output	Fiber-optic coupling	Net weight	8.75KG
Laser wavelength	980nm+1064nm	Gross weight	21KG
Output Power	980nm 1.5W-30W +1064nm 1.5W-8W	Input	AC : 100-240V 、 50/60Hz
Pulse width	15ms—80ms	Length of Fiber	2m
Frequency	1-10Hz	Operation interface	11.2inch
Mode	Pulse mode, Continuous mode	Cooling	Air cooling
Operate mode	Touch screen	Flight case Dimensions	640mm*480mm*410mm
Language	English or OEM		

【5】 Structure of the machine and how to install it



- structure:** ① Power switch ② Touch screen ③ Fiber optic hand piece for Physiotherapy
 ④ Foot switch ⑤ Emergency stop button ⑥ laser output port
 ⑦ Power outlet ⑧ Foot switch outlet

【6】 Install steps

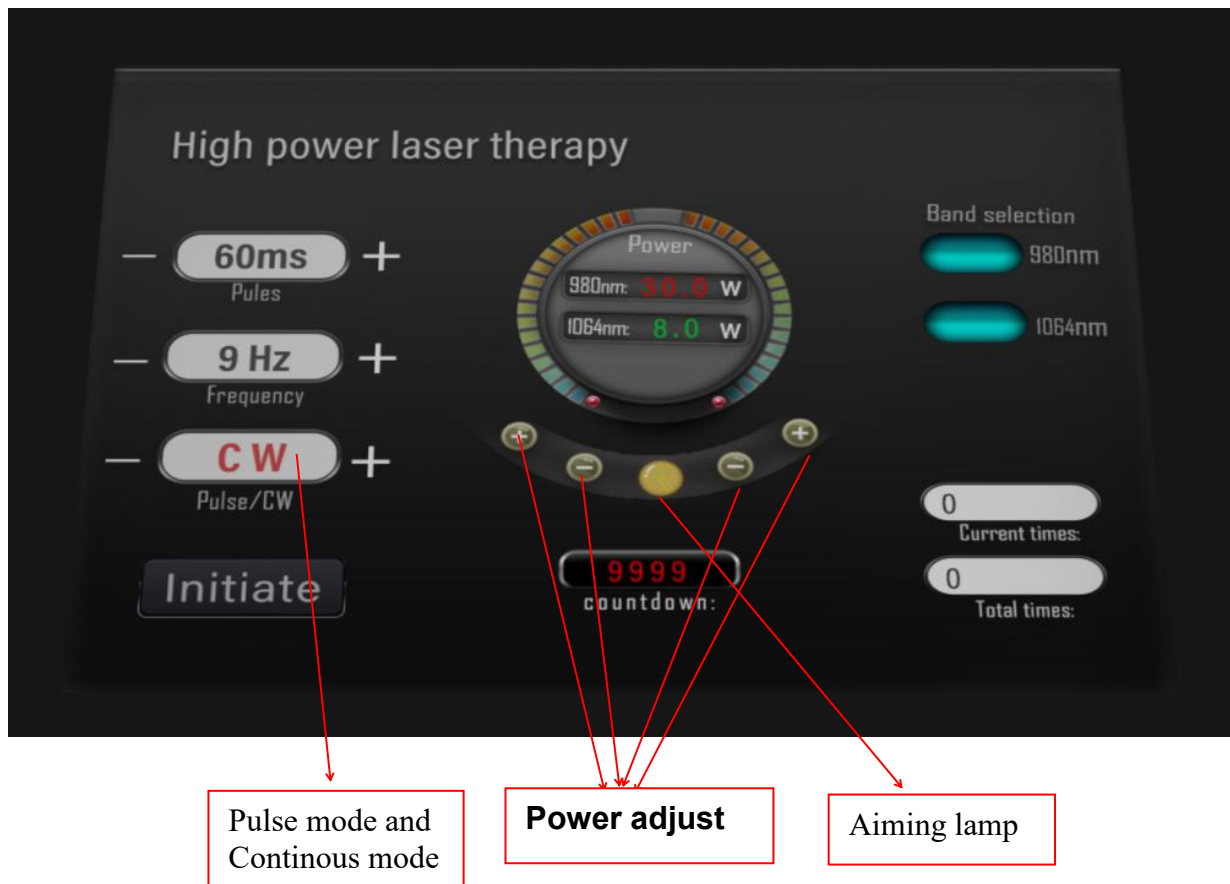
Install power line to ⑦

Install foot switch to ⑧

Install laser output port to ⑥

【7】 Turn on the power switch① ,

Show the touch screen



【8】 Operate guide

(1) After power-on, do not look directly at the hand piece plug with the naked eye, the 980nm output light is invisible! However, the damage caused by the laser to the eyes is irreversible and can be protected by wearing laser glasses or eye masks.

(2) Set the laser output type. Laser output band selection: Connect the power cord and press the button to turn it on. After the startup interface is automatically loaded, click the desired laser type to enter the corresponding mode operation page.

- If you need to use 980nm laser, you can click the switch button of 980nm laser.

The output laser wave is 980nm laser.



Click here to choose 980nm

- If you need to use the 1064nm laser, you can click the switch button

1064nm laser. The output laser wave is 1064nm laser.

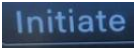
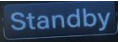


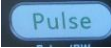
Click here to choose 1064nm

- If you need to output 980nm+1064nm at the same time, click the buttons of 980nm and 1064nm at the same time. At this time, the 980nm laser and the 1064nm laser are simultaneously output.

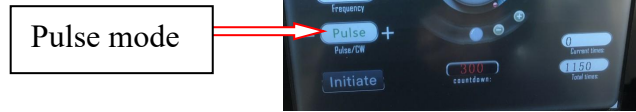



Click the buttons of 980nm and 1064nm at the same time.

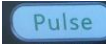
(3) ● **Setup parameters:** Set each parameter  in state. (The setting parameters are invalid after the  button is activated)


● **Pulse mode:** Click the button to 

The output laser method is pulse mode.





● **Continuous mode:** Click the button to switch to 
The output laser method is continuous mode

The laser outputs laser continuously, the frequency and pulse width are not adjustable, only the power can be adjusted. To switch to pulse mode, click the button to 

● **Setup power:** Click the power value 

The use range is 980nm1W-30W, 1064nm1W-8W. The output range of 980nm and 1064nm is 2W-38W at the same time.

● **Setup Pulse:** Click the pulse width adjustment button to decrease or increase pulse width value. The page range is 15-80ms. 


● **Setup Frequency:** Click the frequency adjustment button to decrease or increase frequency value. The page range is 1-10Hz. 

● **Current times:** Display value 

The number of lasers emitted after this power-on. It is automatically cleared after shutdown.

● **Total times:** The displayed value 

is the total number of lasers emitted by the machine, and will not be cleared after shutdown.

(4) After the setting is completed, click the  button and step on the foot switch to start working.

To pause or adjust the parameters, click the  button to stop working and enter standby mode.

【9】 Parameter guidance

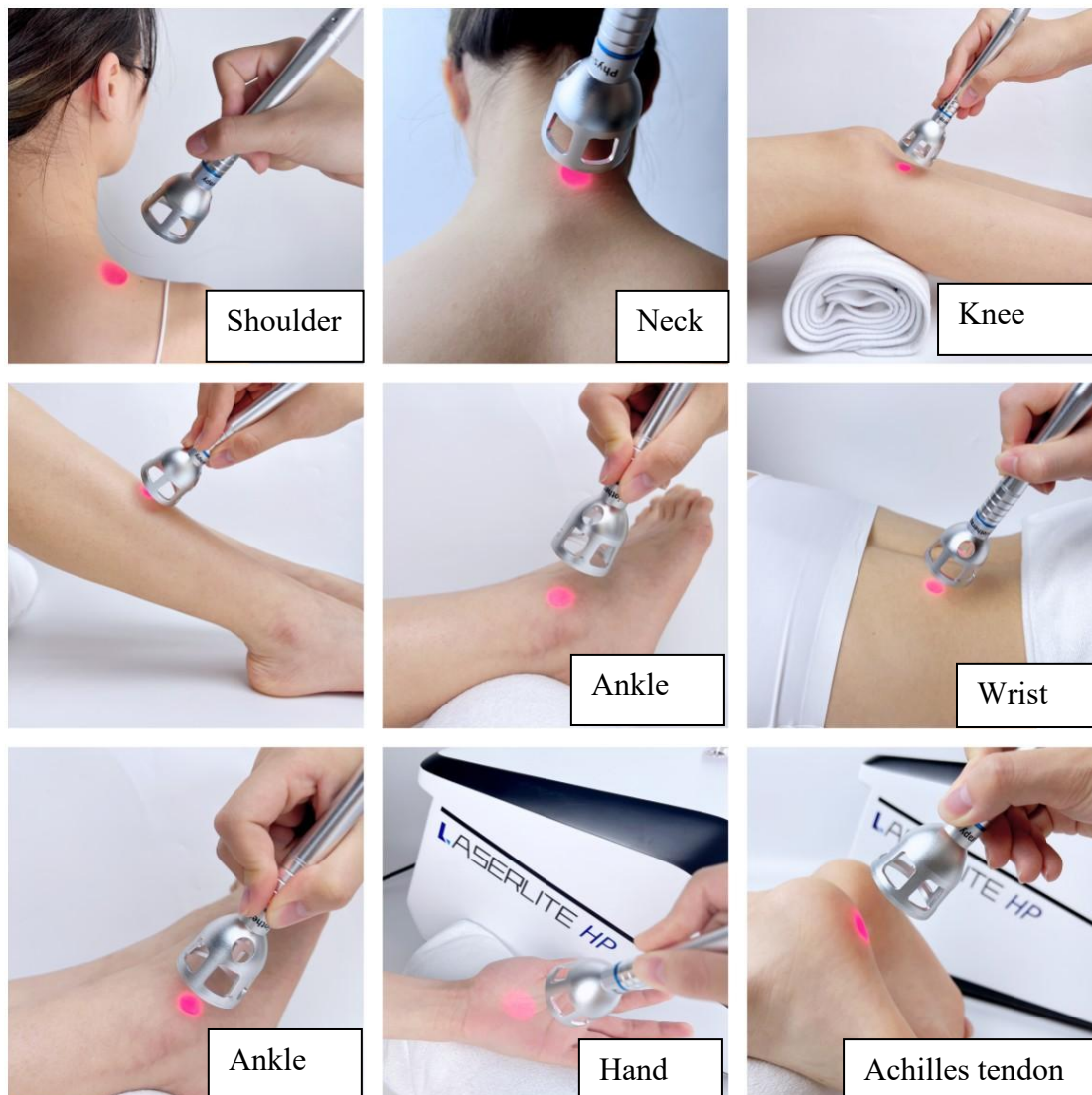
Treatment steps:

1. Remove perfume, makeup residue and sunscreen from the skin.
2. The operator needs to wear laser protective glasses during treatment. The patient can wear goggles or protective glasses or close their eyes, do not look directly at the laser.
3. Set the parameters: Use physiotherapy plug. Without the focus ring. Suggested values for treatment parameters: The power is usually 15W or above, pulse width 30ms-50ms, frequency 5~6Hz. After about 6 seconds of fever, the energy is gradually increased, and the fever is not hot.

4. Put the hand tool perpendicular to the skin, about 1cm away from the skin, and operate. Each area is about 900 shots each time, and the treatment is performed every other day. Pay close attention to the skin color changes of the treated area. If the skin becomes excessively red, reduce the output power in time , reduce the output power in time.

Treatment range: Alleviate various bone diseases, Muscle pain, daily health care;

Shoulder



Precautions:

1. Laser safety: The damage caused by the laser to the eyes is irreversible. Both the operator and the operator are required to wear laser protective glasses.

2. not suitable for the crowd: pregnant women, children, anyone who is receiving cancer treatment.

3. to prevent adverse effects: should avoid laser irradiation for too long or temperature overheating leading to burning, tissue necrosis, such as skin redness or burns around the nail, cooling measures should be taken.

4. Absolute contraindication: Pregnancy; thrombosis; coagulation disorders (haemophilia); tumour diseases; acute inflammation; pus focus in the target area.

【10】 Instrument maintenance and care

- (1) Before using the hand piece plug, clean the treatment head with high-purity alcohol. When you are finished using it, also clean it.
- (2) The optical fiber is easily broken. It is forbidden to bend less than the minimum radius of the bend when laying. It is forbidden to pile up pressure on the optical fiber. It is forbidden to step on the foot. The optical fiber is lightly handled when laying. It is forbidden to pull hard.
- (3) This instrument is strictly prohibited to be dismantled. Please contact us if there is any trouble.
- (4) In order to ensure the normal use of the instrument, purchase or replacement of the spare parts of the instrument, please contact the company directly.

【Attention】 The customer only needs to carry out daily cleaning and maintenance of the instrument or the simple fault elimination under the guidance of our company's engineering personnel. Other maintenance work should be performed by the company's technical staff.

【warning】 Before you maintain this instrument, you must turn off the power and dial out the power cord. Powered maintenance is harmful to both power and equipment.

【11】 After-sales service

This product will pass the strict quality inspection of the company when it leaves the factory. If there is any malfunction, we will repair or adjust the product according to the following regulations.

- (1) This product host is free of charge within one year from the date of purchase and is maintained for life.
- (2) During the warranty period, the company will provide you with free warranty service for the failure caused by technical reasons of the product, and bear the return shipping cost in the domestic area.
- (3) In order to ensure the normal use of the instrument, purchase or replace the instrument accessories, please contact the company directly.
- (4) The following conditions are not covered by the free warranty
 - ₁ Accessories other than the machine (such as hand piece and fiber optics)
 - ₂ Damage caused by man-made damage and other natural disasters.
 - ₃ Unpacking the chassis without the permission of the company.
- (5) When the user thinks that the product needs to be repaired, please do not disassemble it. Please contact us in time to carry out the simple troubleshooting under the guidance of our engineering staff. Other maintenance work should be carried out by our technical staff.
- (6) This warranty is limited to the faulty repair of the product during the warranty period and does not assume any other responsibility.