
980NM DIODE LASER SPIDER VEINS REMOVAL DEVICE MANUAL

Model: VR2015



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Declaration






Exception showing the accessories of the product, the information in this manual does not represent the company's commitment, the Company reserves the right to make changes to the manual without prior notice. The company is not responsible for any direct, indirect, intentional or unintentional damage or hidden dangers caused by improper installation or operation.

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This is a medical device.

For safety reason, be sure to read the manual

<i>Mark</i>	<i>Meaning</i>
	<i>Caution</i>
	<i>Electric shock protection: BF-level</i>
	<i>Refer to manual</i>
	<i>Manufacturer symbol</i>
	<i>manufacturing date symbol</i>

I. Product Introduction

980nm Diode laser veins removal machine using high-frequency micro-point lightning produced 13.56 million Mhz UHF electromagnetic oscillations, the energy was transferred below the skin surface by optical fiber, crushed capillaries were absorbed by skin tissues itself to reach a one-time permanent redness removal effect.Redness that treated by this technology will never rebounded.

1.1 Product structure:

 <p>Mainframe</p>	 <p>Handpiece</p>
 <p>Footpedal</p>	 <p>Power cord</p>
 <p>Focal rings</p>	 <p>Probes</p>

Please check up whether the accessories are complete, if the accessories have lost in the transportation, please contact us immediately.

1.2 Caution

- (1) Please read User Manual before using the machine
- (2) when the power is turned off or circumstances, dock or disconnect the coupler and optical fiber treatment handle.
- (3) First time to use, please test from low energy, suggested power is 30, frequency is not much quick.

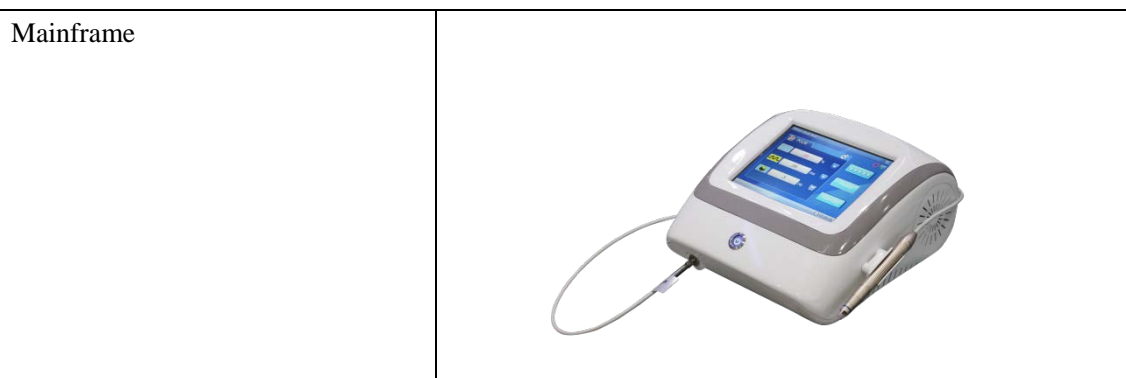
II. Product Technical

2.1 Product specification

Laser type:	diode laser
Wavelength:	980nm
Voltage:	AC100-240V 50/60Hz
Power:	80W
Laser power	15W
Frequency	1~20Hz
Work mode:	Pulse
Spot size:	1.4mm, 1.9mm, 2.4mm
Indicator:	635nm infrared ray

2.2 Installation instructions

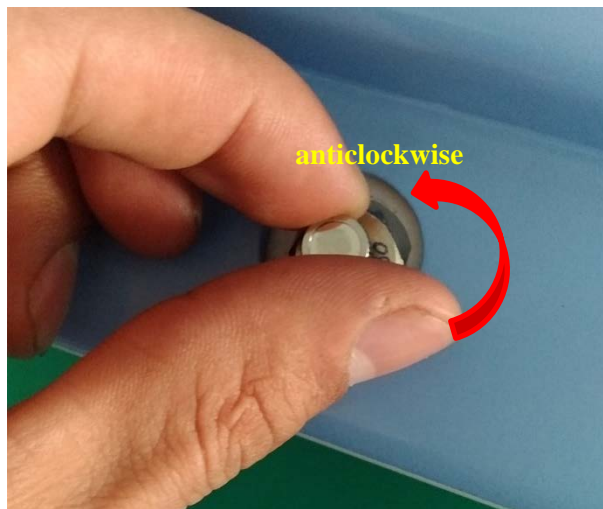
- **Handpiece Installation:**



Handpiece socket



Screw off the cap of the connector
anticlockwise



Connector cap screwed off



Handpiece



Handpiece plug



Take off the plug cap



Plug the handpiece plug into the handpiece socket on the mainframe.



Plugged



Screw the fixture on the handpiece clockwise



Fixed



Put the handpiece on the holder



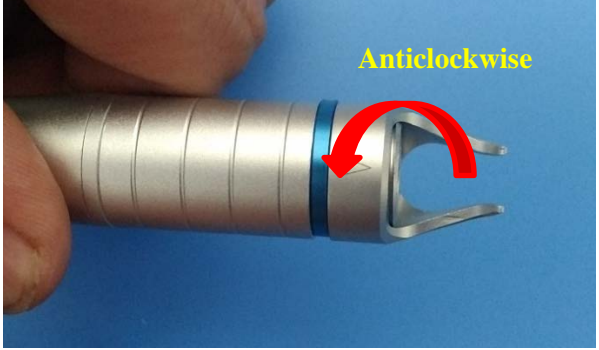
Handpiece holder

● Focal ring replacement:

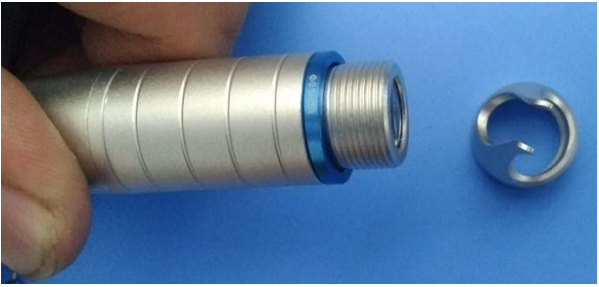
Spot size of the Focal rings:
Φ1.4mm, Φ1.9mm, Φ2.4mm



Screw off the probe anticlockwise



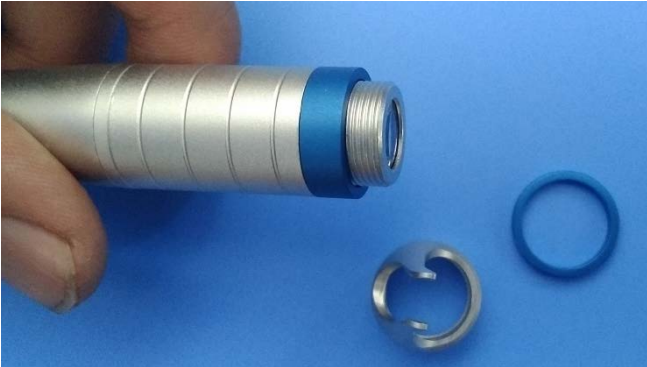
Probe screwed off



Take off the focal ring



Replace the focal ring



Screw clockwise to install the probe



2.3 The name of the main interface and the interface introduction

Tap any position into the next page



III. Software operating methods

- After turn on the power supply into the LOGO page; tap any position into the operation page.
- Under the Standby state (Standby), you can set the energy output mode: The CW (continuous wave mode) and PULSE (PULSE mode), default is PULSE (PULSE mode)
- You can regulate three working parameters in the PULSE (PULSE mode): energy, pulse width and frequency. Click on any parameter, the color change is selected, and then can through the plus and minus buttons to adjust parameters. Energy chart of 0 to 100 is corresponding 0 to maximum energy. Pulse width shows shooting time, adjustable range is 5 ~ 100ms. Frequency shows the number of shot per second, and adjustable range is 1 ~ 20Hz.

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- You only need to adjust energy parameters in the CW (continuous wave mode).
 - After Setup is complete, click on the Ready (Ready button) into the Ready state, in the ready state can't change the parameters which already set up well, if you want to change, click on the Standby (standby button). It has energy output if you press the foot pedal in the ready state, at this time, Ready (Ready button) will become Cure indicator to working.

IV. Features

4.1 Features

- **Power:** the laser power is 15w, which is 5w higher than other suppliers.
- **Energy:** Precisely control the output time and frequency by software to meet different treatment demands.
- **Sport size:** 0.5mm, 1mm, 2mm, 3mm optional, to meet wider treatment demands.
- Real-time power monitor
- Automatic power calibration
- Automatic fiber identification

4.2 Process and effect

Laser to vascular is very safe and comfortable, It is through in a kind of without anesthesia, through the laser to non-invasive treatment to solve the problem of the skin, is safe and painless in the process of treatment. And do laser vascular removal treatment is only for our skin lesions of the red blood cells to treat, and its light wave is only absorbed by the diseased tissue, so for our normal skin tissue is not hurt, without leave a scar After finished! Especially its laser light is not causing our skin allergies. And the effect of laser vascular removal is very good, is currently the most thorough treatment, Do laser vascular removal is radically remove Diseased red blood cell, so that you can let us more thorough and effective removal of vascular, let you have a beautiful skin.

4.3 Advantages:

- **Fast:** can be in a short time to remove, no long time waiting.
- **Painless:** using special cooling treatment, the treatment is like a rubber band on the skin when playing the feeling, no obvious pain.
- **Convenient:** very convenient, do not need a lot of time, do not need to leave.

V. More information about the Vascular

5.1 What is the vascular?

It is a facial phenomenon that the poor performance on telangiectasia, Cuticle damage or Part of capillaries position appear to surface. Like the spider webs, it is decentralized distribution, severe and even into a sheet, into red-faced. This kind skin is thin & sensitive. Cold, heat, agitation, suddenly temperature changes easy cause face more red

5.2 Reasons lead to the vascular

It appears with more factors, mainly regional factors, physical factors, occupational factors, beauty care and other factors:

- Regional factors: That arrived in a new place, stimulated by local climate or high altitude, the skin due to hypoxia, increase in the number of red blood cells , telangiectasia rupture.
- Physical factors: Exceptionally dry climate, change in temperature, capillaries in the skin due to severe irritation and lead to rupture.
- Occupational factors: For example, The welders who suffer the the high temperature will appear red blood.
- Beauty care :Due to improper beauty salon care lead the clients who face appeared broken capillaries, redness increased

There also have other factors, as a result of tobacco and alcohol, stay up late, eating spicy foods and other unhealthy living habits.