

**Professional Spider Vein Removal Machine/980nm**  
**Spider Vein Removal Machine**  
**Vascular Remover Machine**  
**Model : SR-CAR25**



**Laser safety warning**

- 1.The window of the laser is at the end of the left end of the gun. The design of this structure can make the laser safe and effective in the treatment area.
- 2.It is strictly prohibited in the eyes of the laser directly staring out of the window.
- 3.The metal instrument can reflect the laser beam, and the user must not hit the laser beam onto the metal object.
- 4.Reflective objects should be far away from the laser instrument, such as jewelry, watches, surgical instruments, mirrors, etc..

5. Only wear suitable protective equipment to be treated (wearing protective goggles or by other effective protective measures).

6. Therapeutic room at any time to keep clean, non-treatment workers in the work period to enter.

7. The laser beam can only function in the area of need for treatment, can not be used in the non-treatment area, otherwise it will bring unnecessary trouble.

### **Mechanical and electrical safety**

1. When the laser treatment instrument to work under the 220V or 110V voltage, the rated power at this time can not be less than 100W.

2. The power cord that is connected with the laser instrument must be matched with the international single phase three line AC socket and can be well guided. The specification of this model is 10A, good grounding is very important.

3. The laser stops working after high pressure parts inside the instrument still remains a very high energy, if this time the operator to open the back cover, inside to touch the instrument, it may cause electric shock, leading to shock. During the operation, to ensure the stability of voltage.

4. With the time of the work, the instrument can generate a certain quantity of heat. No flammable materials are placed around the instrument, such as acetone, alcohol, etc.. If you need to use alcohol to disinfect the instrument, make sure all the alcohol is evaporated before use. Flammable and explosive materials must be far away from the work area of the instrument. For example: anesthetics, gasoline, alcohol, etc..

### **System safety**

The key switch is configured on the instrument, and the personnel who have been authorized to get the key can run the instrument.

The red emergency stop button on the instrument can cut off the power supply in case of emergency.

When in case of emergency, press the emergency stop button, then turn the key to turn off the power, and then twist the emergency stop button to restore the original state.

### **Transportation safety**

The light guide structure of the external laser instrument is a very sophisticated optical system, when you need to transport this instrument, must be packed in the factory of the state machine to reduce the shock in the process of transportation, otherwise, excessive vibration will lead to offset the internal structure of the instrument, the effect of light output.

### **Equipment installation and operation**

Instrument structure:

The instrument is made up of four parts:

(1) the main body of the machine

(2) control panel

(3) foot switch

Note: this instrument does not include the base, if necessary, can be purchased with my company sales contact, thank you!



### **Equipment installation**

- 1 after opening the packing,
- 2 install the foot switch and power cord, as shown below

### **Installation notes:**

- 1 the use of the handle should be carried out before debugging  
Connect the optical fiber interface to the laser device. Make sure the handle fiber is fully engaged. (Note: the fiber end face (Jin Guangduan) must be kept clean. Exposed end face of non touch interface part. )
- 2, open laser equipment  
When the laser equipment is in the "ready" state, the foot switch of the laser device makes the laser output. (Note: when the laser not excessive bending or pulling the handle of optical fiber, optical fiber may be broken or malfunction. )  
Generate fault. )
- 3, use as far as possible to keep the handle at the end of cleaning to prevent overheating or damage

### **Working principle**

The use of foreign fiber technology specific wavelength of the optical energy, using MAX directional conduction patented technology targeting blood capillary

hemoglobin in the moment will break, make it into small molecules absorbed by tissue, capillary contraction, instant solidification. The original root see redness disappear, the treatment effect is not effective on the spot, swelling, scar.

Therapeutic range

Vascular lesions, removal of red blood: telangiectasia, cherry hemangioma in different parts of the body; facial flushing.

Product advantage

- 1 treatment effect is effective on the spot, not red, not scab;
- 2 contract service, do not rebound after life;
- 3 non contact therapy, no needle non-invasive;
- 4 comfortable and quick treatment process, will not affect the normal life and work of the guests;
- 5 the whole treatment process in the skin surface, the operation is simple, no special care.
- 6 a special instrument for the treatment of red blood

### Clinical operation

1. Before treatment, general anesthesia with local anesthesia, with the cream on the treatment site, half an hour after the treatment.

2. Parameter adjustment



A power: 6-10W

B Duration: 5ms-300ms

C pulse frequency 3-50HZ

D Indicate light power

After the adjustment of the parameters, the point is ready to key, then step on the foot switch can be treated, after the end of treatment, the point of standby key, the power switch off the rear of the instrument can be.

3. When treatment , use a laser to repeat the site of red blood, treatment can be seen after the diameter of less than 2mm of red blood immediately disappeared, the larger blood vessels solidified color dimming. After 2-3 laser treatment, most of the red blood can be effectively improved.

4, the use of laser to redness of skin injury is very small, so the removal of red blood skin can restore the skin color, but does not leave scars, so do not worry about the problem of scar and its safety. After receiving treatment, a small number of people may have temporary pigmentation, which is the normal reaction of Asian skin, can be absorbed.

5, laser to red blood generally requires a course of treatment time, is about 3 times, each time the treatment needs to be 3 to 4 weeks. For the United States in light of the laser red blood after the long as long as the attention to good care matters, the general is not a recurrence of the phenomenon.

6, the treatment should constantly ask the guests feel, appropriate adjustment of energy.

7, after treatment, it is recommended to use medical repair mask or repair products to enhance the effect.

#### **Postoperative care:**

(1) according to the severity of the skin reaction give cold after proper treatment.

(2) after treatment can not use alcohol, hydrogen peroxide, geramine, iodophor, Erythromycin Ointment, to avoid leaving pigmentation.

(3) the skin treatment area within 3 days of above water, can not use irritating skin care products such as soap, Cleansing Cream; do not use the effectiveness of products.

(4) if the scab like face, can not use hand peeling, self metabolism.

(5) laser exfoliating to red blood, it is best not to the sauna, do not use inferior cosmetics and skin peeling, daily skin care products containing hormone.

(6) fasting spicy spicy food, seafood, food, pigment content and light sensitive vegetables ban alcohol and tobacco (celery, spinach, coriander, white radish, etc.)

(7), containing vitamin C and E food or oral vitamin C after the operation, be sure to eat soy sauce, beef, seafood, tobacco, coffee and other irritating food

(8),maintain a good mood after the operation, to avoid excessive worry, enough sleep is a good helper to repair.

(9),to keep warm, moisturizing work, to avoid the sun, can effectively avoid the expansion of capillaries, treatment of red blood.

#### **Taboo crowd:**

1, skin cancer patients.

- 2, scar physique.
- 3, skin acute skin or are taking photosensitive drugs.
- 4, photosensitive skin or taking photosensitive drugs.
- 5, abnormal development of the mole, lentigomaligna etc..
- 6, blood coagulation dysfunction or are taking anticoagulant group.
- 7, immune defect.
- 8, psychological barriers and pregnant women.

### **Reasons for the formation of red blood**

#### A genetic causes

Medical research shows that there are 15% telangiectasia and inherited closely, because the process of natural facial blood capillary, it is prone to rupture of the vessel wall, blood oozing, you can see a clear red blood on the surface of the skin, as time goes forward, red blood will continue to increase to increase, finally formed "red liver".

#### B external causes

- 1) living in alpine areas or suffered frostbite, causing blocked blood circulation, blood stasis wall showed a facial redness.
- 2) after cosmetic skin repeatedly stimulate the dermal exposure to the outside to accept due to the strong ultraviolet radiation of red blood.
- 3) through the stratum corneum, damaged the surface of the skin, so that the skin becomes thin, red blood cells are easy to seep out, the formation of facial redness.
- 4) vascular aging, fragile, lack of flexibility, slow blood vessel contraction, red blood cells prone to leakage, the formation of facial redness.
- 5) long-term use of corticosteroids, causing capillary dilation, resulting in thinning of the skin, atrophy, etc., will cause facial redness.

### **Technical parameter**

Laser type: semiconductor laser

Laser wavelength: 980nm

Output power:  $\leq 10W$

Working mode: continuous mode and pulse mode

Output mode: optical fiber output

Indicator light: can be opened, closed, red light

### **Prevention and warning**

- 1, remove the optical fiber is connected with the laser device, ensure that the end of the optical fiber (a light) are not damaged or pollution.
- 2, do not impose excessive bending or extrusion of the fiber, so as not to cause damage.
- 3, when the handle high power or prolonged contact with the organization will damage the lens or shorten the life of the handle.
- 4, use pay attention gently to prevent the broken handle.

5, do not repeatedly pull the handle, after the failure of the instrument, please close the instrument in a timely manner, waiting for the engineer to repair.

**Packing list**

Optical fiber handlex1

Power cordx1

Foot switchx1