Infrared and Laser Therapy Device

Principle

Microcomputer control, two outputs, one infrared light output, one laser output. Convert electrical energy into light energy, mainly used for irradiation of human body surface, suitable for auxiliary treatment of soft tissue pain. Using light to act on the painful part of the human body can penetrate deep into the tissue, and make the tissue have good light energy absorption, stimulate and regulate the body, promote cell regeneration, improve blood and lymphatic system circulation, reduce inflammation and pain, reduce edema, and eliminate local metabolism. Substances that regulate the immune function of the body to achieve the purpose of relaxing muscles, relieving or relieving pain.

Technical Parameters

1. Rated input power: 170VA.

▲2. Two outputs: one point output and one spherical output.

3. Radiator size of phototherapy instrument:

a) The length of the point radiator is 160mm, the tolerance is ±5mm, the outer diameter is 30mm, and the tolerance is ±2mm;

b) The connection line length of the point radiator is 1080mm, and the tolerance is ±10%.

c) The diameter of the mouth of the spherical radiator is 165mm, with a tolerance of ±5%.

4. The output light wavelength of the phototherapy instrument

a) The output light wavelength of the point radiator is 810nm, the tolerance is ±5%;

b) The output light wavelength range of the spherical radiator is 690nm-940nm, with a tolerance of ±5%.

▲5. Output optical power of phototherapy instrument: tolerance ±20%.

a) The spherical radiator has a wavelength of 690nm~940nm and the output power is adjustable from 3 to 25 steps, with a step difference of 1 step.

b) The output power setting range of the point radiator with a wavelength of 810nm is continuously adjustable from 0 to 500mW, with a step difference of 1mW for a single press of the button, and a step difference of 10mW for a long press of the button.

6. There is an output optical power display on the phototherapy instrument (except for the spherical radiator), and the tolerance difference between the displayed value and the actual output power is ±20%.

7. There is a timing control device on the phototherapy instrument, the timing range is adjustable from 0 to 99 minutes, with a step difference of 1 minute, and the timer display error is ±10%.

8. The output optical power instability is ±5%.
9. Multi-section movable arm makes the treatment head more flexible and more convenient to use
10. The phototherapy instrument is equipped with a key switch
▲11. The phototherapy instrument is equipped with an emergency laser terminator. When the laser output needs to be stopped immediately, the laser output can be terminated by pressing the terminator button immediately.
12. Four independent universal wheels move
13. Display mode: liquid crystal display
12. There will be a sound prompt after the treatment is over
●13. This product has laser non-thermal therapy and laser hyperthermia

Technical advantages

1. The LCD display parameters are clear at a glance, integrating spherical and dot output, making it more convenient to use;
2. Specific wavelength spectrum is optimized, the biological effect is significant, and the effectiveness of clinical treatment is ensured;
3. The integrated design of point radiator and spherical radiator makes the treatment closer to the clinical site, and achieves the combination of point and surface, deep and shallow combination;
4. The multi-section movable support arm makes the treatment head more flexible and more convenient to use;
5. The phototherapy device is equipped with a key switch, which can be turned clockwise to start the phototherapy device.