

Infrared and Laser Therapy Device



Working Principle

The use of point laser and surface laser to act on painful parts of the human body can penetrate deep into the tissue and enable the tissue to absorb good light energy, which can stimulate and regulate the body, promote cell regeneration, improve blood and lymphatic system circulation, reduce inflammation and relieve pain, Reduce edema, eliminate local metabolic substances, regulate the body's immune function, and achieve the purpose of muscle relaxation, relief or pain relief.

Technical Parameters

1. Rated input power: 80VA.
2. Two outputs: one dot output and one array output.
3. Phototherapy device radiator size:
 - a) The length of the point radiator is 160mm, the tolerance is ± 5 mm, the outer diameter is 30mm, the tolerance is ± 2 mm;
 - b) The length of the point radiator connection line is 1080mm, and the tolerance is ± 10 %.
 - c) Area array radiator length: 200mm, width: 160mm, thickness: 50mm;
 - d) The connecting line length of the area array radiator is 1260mm, and the tolerance is ± 15 %.
 - e) The height of the area array radiator bracket is 740mm, and the tolerance is ± 15 %.
4. Phototherapy instrument output wavelength
 - a) Point radiator output wavelength: 810nm, tolerance ± 5 %;
 - b) The output light wavelength of the area array radiator is 810nm/980nm, with a tolerance of ± 5 %;
5. Output light power of phototherapy instrument:
 - a) 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.
 - b) The output power setting range of the planar radiator with a wavelength of 810nm is 0~500mW, and the step difference is 1mW with a single press of the button, and the step difference is 10mW with a long press; the output power setting range of the wavelength of 980nm is 0~200mW adjustable. , the output power changes with the change of 810nm, the step difference is 2mW every 5 times when you press it alone, and the step difference is 4mW when you press it for a long time.

6. Intelligent control, LCD display, single-channel parameter independent setting, can be used independently.
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. The timer display error is $\pm 10\%$.
8. Output optical power instability is $\pm 5\%$.
9. Four-wheel trolley design, easy to move;
10. Three-dimensional adjustable bracket, flexible and convenient.
11. The phototherapy device is equipped with a key switch. Turn it clockwise to start the phototherapy device.
12. The phototherapy instrument is equipped with an emergency laser terminator. When the laser output needs to be stopped immediately, you can press the terminator button immediately to terminate the laser output.

Technical advantages

1. Point radiator output;
2. Planar radiator output;
3. Intelligent control, LCD display, single-channel parameter independent setting, can be used independently;
4. Optimize specific wavelength spectrum and have significant biological effects to ensure the effectiveness of clinical treatment;
5. The multi-section movable arm makes the treatment head more flexible and easier to use;
6. The combination of point and surface design enables the treatment to achieve point and surface combination, depth and shallow combination. The point radiator function can treat acupoint tenderness points, and the stepped wavelength of surface radiation can treat large areas, which is more in line with clinical treatment need.