

LED.G(built-in)

Curing light user's manual



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Principle and usage

1. LED-G(built-in) adopts the principle of ray radiation to solidify the light-sensitive resin by shooting at it in a short time.
2. This product is used to restore teeth and solidify material for whitening teeth.

Structure and components

Built-in LED-G(dental) is composed mainly of high power LED, fiber optic , main unit and power supply line.

Basic technical specification

1. Power supply: AC15V-24V
2. Light source: (1) blue light (2) wave length 420nm---480nm
3. Working condition:
 - ① Environment temperature: 5°C - 40°C
 - ② Relative humidity:≤80%
4. Dimension :26×25×260mm
5. Net weight : 135g
6. Consumption power: ≤8W.
7. Protection type against electrical shock: Class II
8. Protection against electrical shock: Type B equipment
9. Protection against harmful ingress of water or particular matter: Ordinary equipment(IPX0)
10. Safety in the presence of flammable anesthetic mixture with air, oxygen or nitrous oxide: not suitable under this condition.

Install and uninstall way

1. Connected the LED power supply line with the power (AC 24V) of dental-unit. Tight the nylon thread to the fixation of the dental-unit, then it will be available for operation.

Notice: when installing the LED, be sure the power is cut off. The two power wire should be a little longer than the nylon thread to keep the power wire safe.

2. Take the red protection cap off the fiber optic and then insert metal cap of the fiber optic into the built-in LED-G's installation hole. (You must insert the parts to the end point by circumgyrative way, be sure not sloping insert.)

3. To install the light hood on the top of the fiber optic.

4. Uninstall the LED, just reverse the procedure above.

Operation way

1. You can choose one operating mode by pressing the three different buttons on the curing light.

(1) Full-power: the blue light radiates in full power.

(2) Ramping: The blue light power increases stronger continually, after 5 seconds reaches to the highest power.

(3) Pulse: The blue light works on the pulse condition.

2. When operating the LED, please focus on the point needs solidify. Press the On / Off switch, the handpiece will produce "Di" sound, the LED give out slight blue light. 2 seconds later enter the mode that has been chose. And 10 seconds count down.

3. After finishing the operation if there is any resin on the optical fiber. Please make clean with the calico, in order not to impact the intensity of the ray power.

4. The valid light intensity of this LED is far more higher than Halogen Lamp. The solidified depth of the curing light composites resin for 10

seconds will not less than 4mm.

5. The optical fiber of the curing light can be removed, and autoclaved under the high temperature (135°C) and pressure(0.22MPa).

Notice

1. When you use on the process of clinic, the light should be directly straight on the resin material, to avoid the radiation position improperly, or influence solidification effect.
2. Some biological response history patients are strictly forbidden to use.
3. The blue light forbid strictly illuminating eyes.

Daily maintenance

1. Only the fiber optic can be autoclaved under high temperature and pressure. As to other fittings, wipe the surface with clean water or distilling liquid. No immersing.
2. After every operation, shut off the electricity and check the fiber optic whether there is resin remained on it. Wipe off if any.

Trouble Solution

Description	cause	solution
Non-indication, non-acts	The LED is not connect well with the power or the power is off.	1. check the connection of the LED and the power 2. make sure the power is in “on” condition
Light intensity insufficient	1. Optical fiber hasn't inserted base position. 2. The optical fiber itself has crack. 3. There is resin remain on the surface of the optical fiber.	1. Please install the optical fiber again . 2. Please change the optical fiber. 3. Please clean the remain resins.

Details of the packing list

- | | |
|--------------------------|------|
| 1. Main unit of the LED | 1set |
| 2. Optical fiber | 1pce |
| 3. Light hood | 1pce |
| 4. Instruction manual | 1pce |
| 5. Quality certification | 1pce |

After-service

1. We offer one year free repair to those products that can't work because of quality problems, counting from the sales date.
2. Those irrevocable damages caused by non-professionals don't fall into this sphere.

Storage and transportation

1. This device should be handled carefully, kept away from shaking point, installed or stored at shadowy, dry, cool and ventilated places.
2. Don't store it together with articles that are combustible, poisonous, caustic and explosive.
3. This device should be stored in the environment where the relative humidity is $\leq 80\%$, the atmosphere pressure is $75\text{KPa} \sim 106\text{KPa}$ and the temperature is $-10^{\circ}\text{C} \sim 55^{\circ}\text{C}$.
4. Excess impact or shake should be avoided during transportation.
5. Don't mix it with dangerous articles during transportation.
6. Keep it from sun or snow or rain during transportation.

Symbol instruction

Trademark

Class II equipment

Type B equipment

Caution! Please read the instruction

Used indoor only

Ordinary equipment

CE marked product

Environmental protection

There is not any harmful element in this device. It can be disposed of according to the local laws.

We reserve the rights to alter the design, the technology and fitting parts, instruction manual and packaging without further notice. If there is any discrepancy between the picture and the real product, please refer to the real product.