

1.Principle and usage

LED.B adopts the principle of ray radiation to solidify the light-sensitive resin by shooting at it in a short time.

2.Structure and components

LED.B (dental) is composed mainly of high power LED, optical fiber and the main unit.

3.Technical specifications

- 1. Power supply: rechargeable Lithium battery
Battery model: CMICR18650F
Battery voltage and capacity: 3.7V/2000mAh
Input of adapter: 100V to 240V~ 50Hz/60Hz
Built-in fuse of adapter: 1A/250V
- 2. Light source:
(1) blue light
(2) wave length: 420nm to 480nm
- 3. Working condition:
environment temperature: 5℃ to 40℃
relative humidity: ≤ 80%
- 4. Dimensions: 31mm×34mm×260mm
- 5. Net weight: 145g
- 6. Consumption power: ≤8W
- 7. Protection type against electrical shock: class II equipment
- 8. Protection against electrical shock: type B applied part
- 9. Protection against harmful ingress of water or particular matter: ordinary equipment (IPXO)
- 10. Safety in the presence of flammable anesthetic mixture with air, oxygen or nitrous oxide: not suitable under this condition.

4. Operation

- 1. Take off the red cap from the optical fiber and then insert the metal part into the front of LED.B .(Make sure to screw the fiber to the end.)
- 2. To install the light hood on as show in picture 1.
- 3. Press the time button to choose the solidification time. 4 working time modes are available: 5, 10, 15 and 20 seconds.

- 4. During the operation, aim blue light at the position needing solidification. There is a “Di” sound and the LED starts working .Then it counts down to“0” to end the solidification.
- 5. After the operation, please clean the fiber with calico in order not to affect the light intensity.
- 6. The depth of solidification of composite is no less than 4mm per 10 seconds.
- 7. The optical fiber can be spined off by 360° and autoclaved to the high temperature of 135℃ and pressure of 0.22MPa.
- 8. During operation, if the indicator light of capacity is on, it means low volume. Recharge it at once.

5.Instruction of recharging

- 1. Recharging by UDS-M scaler: press the recharging button , Insert the LED.B into the recharging hole and the light shines, which means that the recharging is on. When the light turns off , it means the recharging is over.
- 2. Recharging by pedestal: connect the adapter with the pedestal and get through to the power. Put the LED.B into the pedestal and then the indicator light is on. When the light turns off, it means the recharging is over.
- 3. The battery has no memory and can be recharged any time.
- 4. The main unit should be in a full charge when it’s used for the first time, the ordinary charge time for a full charge is 4 to 6 hours.

6.Precaution

- 1. Notice when using equipment
(1) During operation, the light should be aimed straightly on the resin, to ensure solidification effectively.
(2) Avoid aiming light at eyes directly.
- 2.It is advised to use the original pedestal and adapter because other brand pedestal and adapter are likely to damage the Lithium battery and the circuit.
- 3. It is forbidden to touch the charging needle of the pedestal or the contact area of the LED.B with metal or other conductors. In order not to damage the circuit board and the Lithium battery short-circuit.

7.Maintenance

- 1. Only the optical fiber can be autoclaved to the high temperature and pressure.
- 2. After operation each time, please shut off the power source and clean the optical fiber.

8.Troubleshooting

Fault	Possible cause	Solutions
Light intensity insufficient	1.The optical fiber is not inserted till the bottom. 2.The optical fiber has cracked. 3.There is resin remained on the surface of optical fiber. 4.Low battery.	1.Insert again correctly 2.Change the optical fiber. 3.Wipe off the resin. 4.Charge the LED.B
Non-indication Non-acts	1.The battery is used up. 2.The LED.B works continuously too long and the heat protection system works. 3.Short circuit of charge connector makes the battery enter self-protection. 4.LED is damaged.	1.Charge the LED.B 2.Stop the operation for several minutes. 3.Please put the curing light into the pedestal for charing, then the battery works again. 4.Contact the local distributor or us.

9.Packing list

(The components of the machine are listed in the packing list)

Note: When the LED acts as one part of UDS-M, the charger and pedestal are optional.



picture 1

10. After service

1. We offer one year warranty of quality problems, counting from the sales date.
2. We will not responsible for any damage caused by the non-professional person.

11. Storage and transportation

1. This equipment 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 equipment should be stored in the environment where the relative humidity is $\leq 80\%$, the atmosphere pressure is 75kPa to 106kPa and the temperature is -10°C to 55°C .
4. Excess impact or shake should be avoided during transportation.
5. Don't mix it with dangerous articles during transportation.
6. Keep it away from sun or snow or rain during transportation.

12. Symbol instruction



Trademark



Type B applied part

IPX0

Ordinary equipment



FDA marked product



Manufacturer



Screw inside/outside



Used indoor only



Caution ! consult accompanying documents.



Class II equipment



CE mark



Date of manufacture

13. Environmental protection

There is not any harmful element in this equipment. 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.

14. Declaration of conformity

Product conformity the following standards:

EN ISO 14971:2000+A1:2003
 EN 980: 2003 / ISO 9687:1993 / EN 1041:1998
 EN 60601-1:1990+A1:1993+A2:1995+ A13:1996
 EN 60601-1-4:2001 / EN 60601-1-2: 2001
 EN ISO 10993-1:2003 / EN ISO 10993-5:1999/ EN ISO 10993-10:2003+A1:2003
 EN ISO 17664:2004 / EN ISO 17665-1:2006
 EN60825-1:1994+A1:2002+A2:2001

15. For technical data, please contact

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1st Edition



INSTRUCTION MANUAL FOR LED.B (CURING LIGHT)



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 Manufactory Add: Guilin National High-tech Information Garden,
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 The industrial design, inner structure, etc, have claimed for several patents by WOODPECKER,
 any copy or fake product must take legal responsibilities.

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