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WOODPECKER

LED.P Curing light Instruction Manual

(Please read this manual before operating)



FDA

www.tuv.com
TÜVRheinland
ID 9000033814

- Certified Management System
- EN ISO 9001
- EN ISO 13485

GUILIN WOODPECKER MEDICAL INSTRUMENT CO., LTD.

www.glwoodpecker.com

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1. Introduction

Guilin Woodpecker Medical Instrument Co., Ltd. is a high-tech enterprise in researching, developing, and producing dental equipment, and has a perfect quality assurance system, main products including ultrasonic scaler, curing light, micro motor, apex locator and ultrasurgery etc.

2. Principle and usage

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

2.2 This product is used to restore teeth and solidify material for whitening teeth.

3. Structure and components

LED.P (dental) is composed mainly of high power LED, optical fiber and main unit. (Picture 1)

4. Technical specifications

4.1 Power supply: AC100V to 240V 50Hz/60Hz

4.2 Applied part: optical fiber

4.3 Light source:Blue light

Wave length: 420nm-480nm

Light intensity: 1000mW/cm^2~1200mW/cm^2

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4.4 Working condition:

Environment temperature: 5℃ to 40℃

Relative humidity: ≤80%

Atmosphere pressure: 70kPa to 106kPa

4.5 Dimensions: 26mm×25mm×260mm

4.6 Net weight: 221g

4.7 Consumption power: ≤8W

4.8 Protection type against electrical shock: class II

4.9 Protection against electrical shock: type B

4.10 Protection against harmful ingress of water or particular matter: ordinary equipment (IPX0)

4.11 Safety in the presence of flammable anesthetic mixture with air, oxygen or nitrous oxide: not suitable under this condition.

5. Install and uninstall way

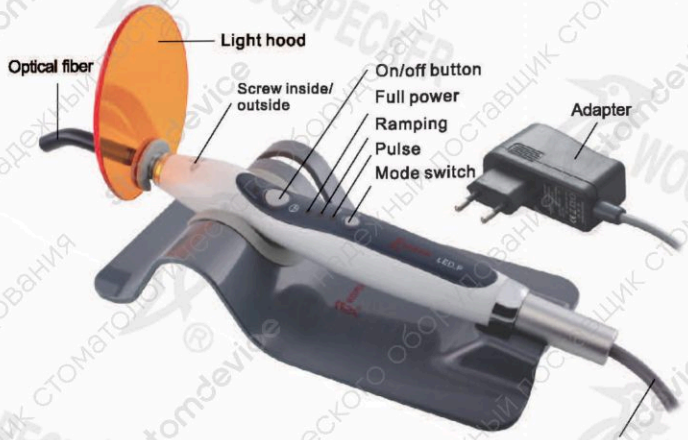
5.1 Take off the red cap from the optical fiber and insert the metal part into the front of the built-in LED.P (Make sure to screw the fiber to the end by rotation).

5.2 Install the light hood as showed in picture 1.

5.3 Connect the adapter to an electrical socket, the LED.P will be available for operation.

5.4 The uninstall way in accordance with the opposite directions above.

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Picture 1

6. Operation

6.1 You can choose any operating mode by pressing the mode switch button on the curing light.

6.1.1 Full: the blue light radiates in full power.

6.1.2 Ramping: The blue light power increases stronger continually, reaches maximum power after 5 seconds.

6.1.3 Pulse: The blue light works on the pulse mode.

6.2 During the operation, aim blue light at the position needing solidification. Press the ON /OFF switch and the main unit will produce "Bi" sound, the LED starts to work under the selected

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mode, the working time is 10 seconds.

6.3 To avoid impacting intensity of the ray power, please clean up optical fiber by calico each time.

6.4 The depth of solidification of composite is no less than 4 mm per 10 seconds.

6.5 The detachable optical fiber of the curing light can be autoclaved under the high temperature(135℃) and pressure(0.22MPa).

7. Precaution

7.1 During operation the light should be aimed straightly on the resin, to ensure solidification effectively.

7.2 Avoid aiming light at eyes directly.

①**WARNING: If the curing light works for 40s continously, the temperature of the top of optical fiber may reach 56℃.**

②**WARNING: Do not modify this equipment without authorization of the manufacturer.**

8. Contraindication

The heart disease patients, pregnant women and children should be cautious to use this equipment.

9. Maintenance

9.1 Only the optical fiber can be autoclaved under high temperature

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and pressure.

9.2 After operation each time, please shut off the power source and clean the optical fiber.

10. After service

From the date this equipment has been sold, base on the warranty card, we will repair this equipment free of charge if it has quality problems, please refer to the warranty card for the warranty period for units and parts.

11. Troubleshooting

Faulty	Possible cause	Solution
Non-indication Non-act.	1. The LED is not connected well with the power. 2. The power is off.	1. Check the connection of the LED and the power. 2. Make sure the power is on.
Light intensity insufficient.	1. Optical fiber isn't inserted well to the bottom. 2. The optical fiber has cracked. 3. There is resin remain on the surface of the optical fiber.	1. Install the optical fiber well. 2. Change the optical fiber. 3. Remove the resin.

If all the above solutions have been completed, the machine still can not work normally. Please contact our special repair shop or us.

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12. Packing List

The components of the equipment are listed in the packing list.

13. Storage and transportation

13.1 This equipment should be handled carefully, kept away from shaking point, installed or stored a shadowy, dry, cool and ventilated place.

13.2 Don't store it together with articles that are combustible, poisonous, caustic and explosive.

13.3 This equipment should be stored in the environment where the relative humidity is ≤ 80%, the atmosphere pressure is 70kPa to 106kPa and the temperature is -10℃ to +55℃.

13.4 Excess impact or shake should be avoided during transportation.

13.5 Don't mix it with dangerous articles during transportation.

13.6 Keep it away from sun or snow or rain during transportation.

14. Environmental protection

There is not any harmful element in our product. It can be disposed according to the local laws.

15. Manufacturer's right

We reserve the rights to change the design of the equipment, the

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technique, fittings, the instruction manual and the content of the original packing list at any time without notice. If there are some differences between blueprint and real equipment, take the real equipment as the norm.

16. Symbol instruction



Trademark


Consult the accompanying documents


Type B applied part



Ordinary equipment


Date of manufacture


Manufacturer


Used indoor only


Screw inside/ outside


Class II equipment


Appliance compliance WEEE directive



Temperature limitation



Humidity limitation



Atmospheric pressure for storage


Recovery



FDA marked product

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Keep dry

Handle with care

Got the quality management system certification and CE certification issued by TüV Rheinland

17. Statement

All rights of modifying the product are reserved to the manufacturer without further notice. The pictures are only for reference. The final interpretation rights belong to GUILIN WOODPECKER MEDICAL INSTRUMENT CO., LTD. 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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for more information



Guilin Woodpecker Medical Instrument Co., Ltd.
Information Industrial Park, National High-Tech
Zone, Guilin, Guangxi, 541004 P. R. China

Tel:
Europe Sales Dept.: +86-773-5873196, +86-773-2125222
North America, South America &
Oceania Sales Dept.:+86-773-5873198, +86-773-2125123
Asia & Africa Sales Dept.:+86-773-5855350, +86-773-2125896

Fax: +86-773-5822450
E-mail: woodpecker@mailgl.cn, sales@glwoodpecker.cn
Website: http://www.glwoodpecker.com

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Anti-Forgery statement

Dear Users:

Thank you for trusting and supporting WOODPECKER products!

Recently we found FAKE woodpecker products on the market, due to the quality is not insured, the fake product can easily break your device and will bring potential risk for patients' safety. In order to protect our users' benefits, we particularly inform that:

1. Finding those who counterfeit and sell imitations, please email to **woodpecker@mailgl.cn** to report. **We offer 60% of the award judged** by the court to the resultful reporter, and your information will be kept strictly confidential.

2. Authenticity verification of WOODPECKER products can be checked from **www.glwoodpecker.com** and click "Anti-Forgery Query" for checking.

3. From 15th September 2012, all detachable handpiece as well as all scaling tips that sold separately are pasted with Anti-Forgery labels. Please login into our official website to check.

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