

# B-Cure

CURING LIGHT

## Instruction Manual

Please read this manual before operating



# Contant

1. Introduction-----	2
2. Product Performance Structure and Components -----	2
3. Basic Technical Specifications-----	3
4. Installation and Demounting -----	5
5. Operation -----	5
6. Precaution -----	6
7. Contraindication -----	7
8. Daily maintenance -----	7
9. Troubleshooting -----	8
10. Storage and transportation-----	9
11. After service-----	9
12. Environmental protection -----	9
13. European authorized representative-----	10
14. Symbol instruction-----	10
15. Statement -----	11

## Preface

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, apex locator and ultrasurgery etc.

NOTE: Although the ME equipment conforms to the intent of the standard EN 60601-1-2 in relation to electromagnetic compatibility, electrical equipment may produce interference. If interference is suspected, move equipment away from sensitive device or contact us. The portable and mobile RF communication equipment can affect this instrument's normal operation.

## 1. Introduction

### 1.1 Features:

1.1.1 Four working modes: Turbo, Normal, Ortho, Soft, Pulse

1.1.2 Time setting :

Turbo: 1S, 3S

Ortho: 3Sx10, 5Sx10

Normal, Soft, Pulse: 5S, 10S, 15S, 20S

It is Intermittent duty, and can use 400 seconds continuously, stop 30 seconds.

1.1.3 Constant light intensity. The solidification effect is not affected by the consumption of remaining power.

1.1.4 Large capacity battery. A full charge can be used for more than 300 times continuously under 10s working time mode.

### 1.2 Principle and Application

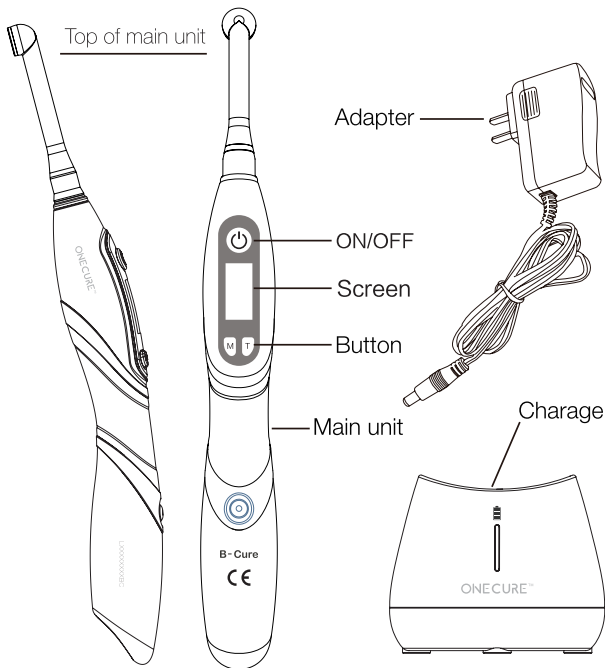
1.2.1 B-Cure adopts the principle of ray radiation to solidify the light-sensitive resin by shooting at it in a short time.

1.2.2 This product is used for dentistry. It has the function of accelerating the material of dental restoration curing.

## 2. Product Performance Structure and Components

B-Cure curing light (dentistry) is mainly composed by LED, light

hood, charging cradle, battery, adapter, main unit.



### 3. Basic Technical Specifications

3.1 Size: 262.5mm×45mm×28.5mm

3.2 Net weight: 208g

3.3 The components of machine:

- |                 |                      |                      |
|-----------------|----------------------|----------------------|
| 1.Maint unit *1 | 2.Top of main unit*1 | 3.Light hood*1       |
| 4.Bathymeter*1  | 5.Adapter*1          | 6.Pedestal charger*1 |

- 7. Battery kit\*1
- 8. Qualified certificate\*1
- 9. Instruction manual\*1
- 10. Warranty card\*1

### 3.4 Adapter:

3.4.1 classified by power supply

The power supply by the rechargeable battery.

3.4.2 Rechargeable Lithium battery:

Battery model: DLG14500, Battery capacity: 750mAh

Battery has over-voltage, over current and short circuit protection

3.4.3 Adapter(charge)

Approved adapter is specified as a part of me equipment

Adapter input: AC100~240V 50Hz/60Hz

Output: DC5V 1A

Built-in fuse: T1A250V

Model: DJ-0500100-A5

### 3.5 Light source:

3.5.1 5W high power blue light LED

3.5.2 Wave length: 385nm~515nm

3.5.3 Check method: When operate machine properly, LED luminous means LED is in good condition.

3.5.4 The wavelength of our curing light machine can match with dental resin material which are commonly used on clinical, such as 3M and Dentsply.

3.5.5 Work condition:

Environment temperature: +5°C to +40°C

Relative humidity: 30%~75%

Atmopere pressure: 70kPa to 106kPa

### 3.6 Safety classification

3.6.1 Protection type against electrical shock: Class II

3.6.2 Protection degree against electrical shock: Type B

3.6.3 Protection against harmful ingress of water or particular matter: ordinary equipment (IPX0), can't be waterproof.

3.6.4 operation mode: short time run equipment.

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

## 4. Installation and Demounting

4.1 Aim the mounting holes which on the upper of machine ,and make the long side of Top of main unit inserted to it (must screw the Top of main unit to the end, don't inclined inserted).

4.2 When the battery needs to be charged, connect the plug of the adapter into the AC100V~240V power supply. Then connect the output plug of the adapter to the DC 5V input plug of the pedestal, then put the main unit into the pedestal. Please pull out the adapter after charging.

## 5. Operation

5.1 Press the mode button to set the working mode, the corresponding indicator will on when a mode set.

5.2 Light intensity

5.2.1 Turbo: 2800~3000 mw/cm<sup>2</sup>, Tolerance: ±10

5.2.2 Ortho: 1800~2000 mw/cm<sup>2</sup>, Tolerance: ±10

5.2.3 Normal, Soft, Pulse: 1000~1200 mw/cm<sup>2</sup>, Tolerance: ±10

5.3 Press the time button to set the solidifying time:

Turbo: 1S, 3S

Ortho: 3Sx10, 5Sx10

Normal, Soft, Pulse: 5S, 10S, 15S, 20S the solidifying time

5.4 When operating, aim the Top of main unit at the correct position, press the power button, a “di” sound will appear, the LED shine the blue light and start to work under the selected mode. Screen began to display the countdown time. When the countdown back to 00, the work finished .Then the screen will return to setting time.

5.5 While operation, press the power switch button can stop work at any time.

5.6 At the end of a working cycle , the next working cycle can be started immediately by short pressing the button. If the main unit gets hot obviously, please turn off the device until the main unit becomes cool. Please don't make it continuously illuminate more than 10 times.

5.7 Low power detect circuit is fixed inside of the main unit, when low power is detected, the battery symbol Display screen flashing, please charge in time.

5.8 Connect the adapter well when charge. Inserted the main unit into the charging seat and pressing out the buckle between the main unit. Then the Charge LED become red.

5.9 When operating finish, please clean the Top of main unit with calico to avoid infecting the light intensity.

5.10 This equipment will turn off automatically if don't any action within 2 minutes, turn it on by press power button.

5.11 The effective light intensity of this equipment is much more higher than Halogen Lamp, The solidified depth of the curing light composites resin for 10 seconds will not less than 4mm.

5.12 It can use 400 seconds continuously, stop 30 seconds ,and then use 400 seconds.

## 6. Precaution

6.1 Please recharge the battery at least 4 hours before first time usage.

6.2 During operation, the light should be aimed straightly at the resin to ensure the effect of solidification.

6.3 Be sure to use the original light hood to avoid the blue light hurt eyes. Prohibit aiming light at eyes directly.

6.4 Only the original adapter could be used, because other brand adapters are likely to damage the circuit.

6.5 It is forbidden to use metal or other conductors to touch the charging point of main unit, because it may burn the internal circuit or make the lithium short circuit.

6.6 Charging the battery in the condition of cool and ventilated. Please make sure of pressing out the buckle between the main unit and the pedestal, otherwise the battery charging might be failed because of the poor contact.

6.7 Do not disassemble the Lithium battery, it will lead to the circuit short or the electrolyte leakage.

6.8 Do not squeeze, shake and short the battery, do not store the battery with metal material.

6.9 The instrument has electromagnetic interference. Do not use around the electronic operation, at the same time have a strong electromagnetic interference environment should be careful to use the instrument.

6.10 It is forbidden to use when charging or operation.

6.11 This product should be used by trained, qualified dentists. And this product is suitable for dental patients. Must be use in hospital or professional medical site.

6.12 To avoid electromagnetic interference, the device should be installed at the medical site which meet the requirement of EMC.

WARNING: The adapter should be connected to the socket which is easy for operator to touch.

WARNING: over-heat scorching: the device cannot be used for 20s continuously.

WARNING: High temperature burn, The machine can not direct shining to the skin tissue like lips and mucosa.

## 7. Contraindication

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

## 8. Daily maintenance

8.1 This equipment does not include the self-maintainable spare parts. The maintenance of this equipment should be taken by the



appointed professional or special repair shop.

8.2 Please use accessory which is designed and supplied by our company, contract with the local dealer or our company if you want to buy. It may cause potential dangers to curing light or other damages which is designed and supplied by other manufacturers.

8.3 The accessory of the product should be cleaned by clean water or sterilized liquid. Do not soak.

8.4 Please clean the resin remained on the Top of main unit after using to avoid infecting the life-span or solidified effect.

## 9. Troubleshooting

Faults	Possible causes	Solutions
No indication No response.	<ol style="list-style-type: none"> <li>1. Battery is out of power.</li> <li>2. Battery is protected.</li> <li>3. Faulty of battery.</li> </ol>	<ol style="list-style-type: none"> <li>1. Charging.</li> <li>2. Please put the curing light into the pedestal for charging, then the battery works again.</li> <li>3. Please contact our special repair shop or us.</li> </ol>
Light intensity is weak.	There is resin on the top of the Top of main unit	<ol style="list-style-type: none"> <li>1. Clean the resin.</li> <li>2. Change a new Top of main unit.</li> </ol>
The equipment doesn't charge when the adapter is connected.	<ol style="list-style-type: none"> <li>1. The adapter is not connected well</li> <li>2. The charging point is impurity.</li> <li>3. Faulty of adapter or incompatible.</li> </ol>	<ol style="list-style-type: none"> <li>1. Reconnect.</li> <li>2. Clean by the alcohol.</li> <li>3. Please contact our special repair shop or us.</li> </ol>
Effective duration of the battery become short.	The capacity of the battery decreased.	Please contact our special repair shop or us.

The Display screen twinkles when charging.	low voltage.	Back to normal after 15 minuetns charging.
--	--------------	--

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

## 10. Storage and transportation

10.1 The equipment should be handled carefully and lightly, kept away from the shaking source, installed or stored at shadowy, dry, cool and ventilated places.

10.2 Don't store the equipment together with articles that are combustibile, poisonous, caustic, and explosive.

10.3 This equipment should be stored in the environment where the humidity is 10%~93%, the atmosphere pressure is 70kPa~106kPa and the temperature is -20%~+55%.

10.4 Excess impact or shake should be prevented during transportation. Handle with care.

10.5 Don't put it together with dangerous articles during transportation.

10.6 Keep it away form the sun, rain or snow during transportation.

## 11. 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.

## 12. Environmental protection

There are no harmful factors in our product. You can deal with it based on the local law.

### 13. European authorized representative

**EC REP** MedNet GmbH  
Borkstrasse 10 · 48163 Muenster · Germany

### 14. Symbol instruction



Follow instructions for use



Screw inside/outside



Type B applied part

**IPX0**

Ordinary equipment



Date of manufacture



Manufacturer



Class II equipment



Used indoor only



Serial number



CE marked product



Appliance compliance WEEE directive



Atmospheric pressure for storage



Temperature limitation for storage



Humidity limitation for storage



Authorised Representative in the EUROPEAN COMMUNITY

## 15. 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.

Scan and Login website  
for more information



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

Europe Sales Dept. Tel: +86-773-5873196

North America, South America &

Oceania Sales Dept. Tel: +86-773-5873198

Asia & Africa Sales Dept. Tel: +86-773-5855350

Fax: +86-773-5822450

E-mail: [woodpecker@glwoodpecker.com](mailto:woodpecker@glwoodpecker.com), [sales@glwoodpecker.com](mailto:sales@glwoodpecker.com)

Website: <http://www.glwoodpecker.com>

**EC REP** MedNet GmbH  
Borkstrasse 10 · 48163 Muenster · Germany

ZMN/WI-09-438 V1.1-20191017