

# Introduction

Thank you for choosing our LED light curing machine. This instrument takes the high power pure blue LED as light source. It's the new light curing machine which used with enhanced modespot optical fiber light sticks.

LED light curing machine has become popular in the developed countries in Europe and America. It has approved the reliability in the light curing machine area. With the light-emitting diodes Blu-ray, it can cure the resin with the wavelength of 420-480nm, and be used to repair the teeth in the department of stomatology. The light-emitting diodes has long life, which can greatly reduce the costs of future maintenance of the machine. Its does not produce any heat when running, so no need to cool it with fan, thus, it is free from the annoyance of noise and vibration of traditional machines.

It uses the high capacity lithium ion battery. It can be used about 130-200 times after being charged(4-8 hours).

It has the intelligent battery detection circuit function. When battery is low, it'll alarm and the light will flash.

Moreover, with no wires, the device is very light. Intensity using a two-stage design, first low-light irradiation, and then glare rapid curing. This can inhibit the excessive contraction of the resin surface, avoid cracks between cavities edge. The appearance is user-friendly design, which makes the doctors feel more comfortable during operating.

## Operation

1. This machine can set working modes, time (5s ~ 40s) by you own.

2. Operation setting:

Press the "M" button for a while, when hear "di di" and light shinning, then change press "P" button to choose the time, 5s ~ 40s is available, after set the time, stop press the button a while. When hear "di di" again and light stopping shinning, time sets well.

3. Working mode setting:

Press button "M" to choose working modes, choose the mode you need.

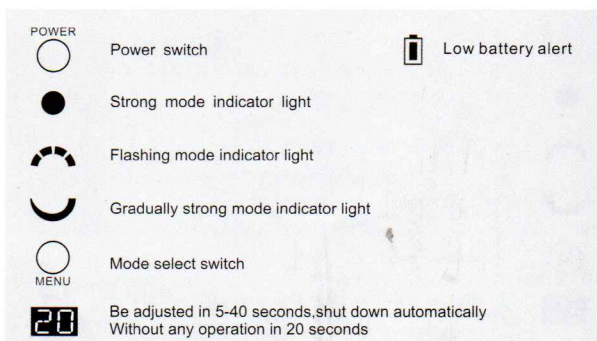
- ☐ Strong mode
- ☐ Flashing mode
- ☐ Gradually strong mode

Charging plug dual-use light curing unit



**Charging plug dual-use light curing unit:** Environmental white plastic shell; 5W high power LED. When fully charged, it can be 5W high power LED. When fully used independently; it also can be used with plug when battery is not enough. New type anti-cracking light guide strong, flashing, gradually strong 3 modes, large capacity lithium battery, automatic standby/ shutdown, low battery warning, suitable for all brands of resin materials; long standby time of 90 days or more. Be charged one time, in accordance with each working time of 20 seconds, it can be used continuously for more than 200 times.

## Operating mode diagram



## Technical data

Package: 230×172×53mm	Battery Voltage: 3.7V
Gross Weight: 0.57Kg	Suitable temperature: 5°C ~50°C
Input Voltage: 110V-240VAC, 50-60Hz	Relative humidity: ≤80%
Output Voltage: DC 4.2V	Solidify time and depth: 5s/3mm
Battery: Lithium-ion battery	Light wavelength: 420-480nm
Capability of Battery: 1500mAh	Light intensity: 1200-2000mw/cm²

## Packing list:

LED curing light unit	1set
Light guide stick	1piece
Power adaptor	1set
Light-shielding sheet	1piece
Introduction book	1copy

## Installation method:

1.The installation of light guide stick:Push the light guide stick inward to the top of the round hole of the main unit with slightly rotating.Slight clicking sound will be issued when the light guide stick is pushed to the right position.

The light guide stick is a consumable product. Please be care fully during installation.

2.The installation of the light-shielding sheet:Push the light-shielding sheet from the front of the light guide stick.

3.The connection of the power adapter:Insert the flat plug end into a 110-240VAC power supply, and round head into the charging pedestal.

## Daily Maintenance

- 1.The machine can not be repaired by users themselves. If malfunction or damage happened on the machine, please contact us to return for maintenance.
- 2.For repairing parts purchasing, contact us or your local dealer. Otherwise, malfunction or damage might be caused by others components.
- 3.Wipe the shell of machine with a piece of gauze dampened with clean water or disinfectant for disinfection. Do not immerse the machine in any liquid. Do not disinfect the machine with high temperature.
- 4.After use, please check if resin remains on the surface of light guide stick, the residue will impact on working life of light guide stick, or solidification effect.

•Warning: When using light curing unit, don't let the light source in front of the eye. If any accident happens, please go to the hospital quickly.

## After-sales service:

Our factory is responsible for free repair if the product isn't working properly due to quality problems in the 1 year from the date of sale.

(Easily damaged objects like fibre optic stick and battery are not within this range.)

in the following circumstances, we only do paid maintenance:

- The damage is caused by the user not in accordance with the manual operation, maintenance, custody, or users' carelessness;
- The damage is caused by the user disassemble the machine;
- The damage is caused by the user use the battery which performance parameter is different from the original one;
- No warranty card or proof-of-purchase, or own altered;
- The damage is caused by irresistible reason;
- Over the warranty date.

## Precautions

- 1) Do not start to work when charging.
- 2) The continuous use time interval should be more than 60 seconds.
- 3) In clinical use, the machine should be directly irradiated on resin material, avoid improper irradiation position that will influence solidification effect.
- 4) Please use light shield in original complete set, it can prevent the light hurting eyes, and do not shoot the eyes directly.
- 5) Please replace the light guide stick when it has cracks which affect light.
- 6) Light guide stick disinfection: soak a few minutes with 75% alcohol
- 7) Do not make the battery electrodes touch metal, in order to avoid short-circuit damage the battery.
- 8) Please use the original power adapter for charging, otherwise damage to lithium battery and PCB (Printed Circuit Board) might be caused.
- 9) The charger plug should be pulled out from the power outlet when charging is completed.
- 10) Do not disassemble the battery under unauthorized, otherwise short circuit and electrolyte leaking might be caused.
- 11) Can not be used in the case of a flammable anesthetic gas mixed with the air or mixed with oxygen or nitrous oxide flammable anesthesia.