



LED 35

Curing light



OPERATING AND SERVICE

MANUAL

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Preface

Thank you for buying model light curing device. Please read this manual carefully, before you begin to use it.

Features

1. High brilliance

The LED component part can be used largest ampere; its strong blue light is 50 times strength more than common LED.

2. Blue light

The wavelength of blue light is 490 nm that just fits for solidifying resin. This kind of light wavelength is used simply for solidifying, and can be avoided side effect of IR heat energy. Nevertheless, the traditional method usually use halogen bulb that produces large amount of IR, it may induce toothache.

3. Long life

This kind of LED can be used several years. Generally, you no need to change the LED. If you use the device too long, the LED light strength may decrease, but it cannot be burnt out. This LED method compare with traditional method that use halogen bulb can save the fee of bulb changing.

4. Without noise

As the LED consumes the electric energy to transfer light mainly, so the temperature of the device increases very low. Because we need not use cooling fan as we use halogen bulb, so this device works silently, and without any noise.

5. Save energy

This device consumes electric power less than 15 watts, its consumes power just equal 1/10 power of the traditional halogen bulb set, but the solidifying efficiency is higher than the traditional set.

5. Light strength measurement

To measure the light strength of this device, we need use a digital photometer which is used by professional dentistry, we can not use general photometer which measuring results is not exactly.

Usage

This device can be used to solidify resin compound that is solidified by visible light. It delivers to dentistry for curing the patient's teeth.

Packing list

1.	LED curing light	1 set
2.	Light guide rod	1 pc
3.	Light cover plate	1 pc
4.	Head piece	1 pc
5.	“O” Ring	2 pcs
6.	Instruction manual	1 pc
7.	Check out card	1 pc
8.	Warranty card	1 pc

Technical Specifications

1. Power supply: AC 90-250 V, Frequency 50 Hz \pm 1 Hz
2. Power consumption: \leq 15 VA
3. Spectrum characteristic.
Spectrum range: 430~490 nm.
4. Time set: 10 S (every 5 S it sounds once).
5. Solidifying degree: After 10 S action, the target resin solidified degree \geq 4 mm.
6. Working circumstance
Temperature: -40~+55.RH: \leq 80%
7. Safety kind
Class II, BF type

Installation guide

How to install light guide fiber rod?

Hold the light guide fiber-fixing sheath, and rotate it half or one turn counterclockwise, then insert the fiber to the top of rod. You should notice the inserting direction, and avoid inserting direction oblique. Finally, tighten the fixing sheath according the direction clockwise. (Refer to Fig. 1).

Operating method

1. Turn on the power.
2. Push the button of the handpiece, blue light out from the light guide rod. Put the light guide rod towards the target resin, then the resin is solidifying. Every 10 S the machine will beep, after 20 S, the LED stop working automatically. Also you can push the stop button on the hand piece to stop working.
3. If you push the button once, weak light out from the device. If you push twice, then strong light may out from the device.

Maintenance

1. If the light guide rod is observed severe damaged or cracked, it may decrease the efficiency of solidifying, should be changed a new one.
2. How to do the disinfections of the light guide rod.
Immerse the rod in 75% alcohol several munites, or use heating method.
3. Keep the light guide rod two terminals clean, for insurance the quantity of light passing.
4. This device cannot use continuously, it works cannot more than 10 times, please use this device according reasonable method. (After you it 10 times, it need have a short break, then you can use it again)

Trouble shooting

Inset the power plug to mains socket, then push the button on hand piece, if the device has no light out, please check the power plug. If you cannot take off the trouble, please send it back to manufactory for repairing

Warranty

The warranty period of the device is 2 years from the date of out from manufactory. If the device cannot work normally due to the device quality within the warranty period, our company will repair it, including change new parts or whole device free of charge. (But light fiber damaged is not included.)