

# **Lightning SpotCure-B**

## **Battery Operated UV Spot Cure System Operation Manual**

### **Introduction:**

Thank you! For your purchase of our Lightning SpotCure-B Battery Operated UV LED Curing System, one of the most powerful hand-held UV curing units available today. Lightning SpotCure-B utilizes a powerful high quality UV LED and unique lens technology to deliver optimum power and coverage, depending on your UV curing needs. Lenses are quickly and easily replaceable and can vary the optical output from 700mW/cm<sup>2</sup> to 18W/cm<sup>2</sup>, simply by swapping the lens. Lightning SpotCure-B is operated by a simple ON/OFF switch for fast and easy performance.

### **! WARNING !**

! This unit is intended to be used as a curing device for materials, adhesives and coatings designed to be cured using Ultraviolet light. Any other use is not authorized.

! User must wear UV protective safety glasses when operating this equipment.

! People in close proximity to this unit must wear UV protective safety glasses during use.

! Do not point UV LED Probe toward exposed skin.

! Do not point UV LED Probe toward any person or animal.

! Do not point UV LED Probe in any direction other than the surface to be cured.

! It is normal for the probe to feel warm after extended use. Do not operate if the Probe feels hot to touch.

Power Off the unit and contact the manufacturer for service.

! Always store batteries inside the provided battery case when not in use Avoid storing where the battery can come into contact with any other substance or material as this can pose a fire hazard.

! Do not charge batteries using any other device except the Smart Battery Charger included with this product. Using any other charging device can pose a fire hazard.

### **Installation:**

Unpack and inspect the Lightning SpotCure-B unit and all of its accessories. The package should contain the following items:

Lightning SpotCure-B carrying case

Lightning SpotCure-B Curing Probe with selected lens installed with lens protective cover

Smart Battery Charger with USB charging cable

2 Lithium Ion batteries in a protective battery case

UV Safety Glasses in a protective glasses case

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### **Before Initial Use:**

Batteries need to be charged before use. Find a suitable flat surface to place the Smart Battery Charger.

Plug the USB cable into the battery charger and an appropriate USB outlet. Install batteries into the Smart Battery Charger. The battery status indicator will be RED indicating the batteries are charging. When the battery status indicator turns GREEN the batteries are fully charged and ready for use.

### **Operation:**

- Unscrew the end cap of the Lightning SpotCure-B unit and insert one battery into battery compartment, + Positive side first.

- Screw the end cap back onto the Lightning SpotCure-B unit. The unit is now ready for use.

- Turn the unit ON by depressing the switch on the end of the unit. Turn OFF by depressing the switch again.

**WARNING:** UV Eye protection for the user and anyone in close proximity of use must be worn when using this device. Refer to WARNINGS at the first page of this Operation Manual.

**IMPORTANT:** This hand-held unit may feel warm to touch after extended use. This is normal and is part of the heat dissipation designed into the unit. If the probe feels uncomfortably hot, discontinue use and contact the manufacturer.

**Lens Technology and Options:**

Lightning SpotCure incorporates a unique lens technology to accommodate various curing needs. By narrowing the focal point of the lens a greater optical output is achieved, allowing for more powerful curing applications. Lenses can be easily changed by unscrewing from the tip of the unit. This allows easy replacement if a lens is damaged, or if the user wants to use a different lens.

Specifications and Part#s for Lightning SpotCure lenses:

Lens Part# 365nm Emitter	Spot Size (mm)	Measured Distance (mm)	Max Optical Power mW/cm2
LSC-D2	2	8	18000
LSC-D3	3	10	13000
LSC-D4	4	14	8500
LSC-D6	6	17	5980
LSC-D8*****	8	27	2340
LSC-D10	10	25	1820
LSC-D15	15	15	700
Lens Part# 405nm Emitter	Spot Size (mm)	Measured Distance (mm)	Max Optical Power mW/cm2
LSC-D3	3	5	11000
LSC-D4	4	7	10000
LSC-D6	6	12	5300
LSC-D8*****	8	19	3300
LSC-D10	10	25	2100
LSC-D15	15	15	1200

\*\*\*\*\* The LSC-D8 lens is the standard lens included with the Lightning SpotCure-B unit.

**Replacement Parts & Accessories can be found at [www.lightning-enterprises.com](http://www.lightning-enterprises.com)**

**Care & Maintenance**

**IMPORTANT:** Always store the probe when not in use to avoid physical damage.

The external surface of the Lightning SpotCure-B handpiece can be cleaned by spraying a minimal amount of mild household cleaner onto a rag and gently wiping. DO NOT spray cleaner or any liquid directly into the handpiece or batteries to avoid seepage into internal components.

**Warranty**

**Limited 90 Day WARRANTY :**

Lightning Enterprises warrants this product to be free from defects in workmanship and material under normal expected use and conditions for a period of 90 Days from the date of purchase for all components.

Should service be required by reason of any defect or malfunction during the warranty period, Lightning Enterprises will repair, or at its option replace this product, with proof of purchase, without charge (except for a nominal charge for handling and return postage).

When returning this product for service, use the following procedure:

- 1) Package the equipment in a well padded, heavy, corrugated box designed for shipping.
- 2) Enclose a copy of your sales receipt, credit card statement, or other proof of date of purchase.
- 3) For both In Warranty and Out of Warranty repairs contact the dealer or distributor where the unit was purchased or contact Lightning Enterprises.

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Please Note: This warranty is valid only in the USA. Any applicable implied warranties are also limited to 90 Days. Lightning Enterprises will not be held liable for any consequential damages. Some states do not allow limitations on implied warranties or exclusions of consequential damages so these restrictions may not apply to you. This warranty gives you specific legal rights. You may also have other rights which vary from state to state.