

## 6. SETUP & OPERATION (CONTINUED)

**Curing** Curing times may vary depending on the materials you are using as well as the shade of a composite material. Most composites will cure within 6 seconds including darker shades and flowable composites. Sealants will cure with in 4-6 seconds as well. Please refer to all manufactures instructions before curing any materials. Most instructions include LED specific timing. However, when this information is not available, or when in doubt the practitioner should perform curing tests outside of the mouth.

**Output** High: 1000 mw/cm<sup>2</sup> (Single Click)  
Low: 500 mw/cm<sup>2</sup> (Double Click)  
A unique step curing feature is offered with your unit. To use step curing you simply start curing with low power and then switch to high by single clicking the on/off button.

**Measuring Output** A radiometer should be used on a regular basis to measure light output/intensity of your curing light. If output is less then expected check the LED lens. A dirty lens can cause a decrease in light output.

## 7. CLEANING / DISINFECTING

DO NOT IMMERSE IN LIQUID. Disinfect by thoroughly wiping down with alcohol, phenolic or glutaraldehyde disinfectants per the disinfectant manufacturer's instructions. Curing sleeves are recommended for each use.

## 8. LIABILITY

Spring Health considers itself responsible for the safety and performance of the product only if installation or modifications are done by persons authorized by Spring Health, the electrical installation meets local requirements and the equipment is used in accordance with these instructions.

# OPERATION MANUAL

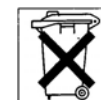
## *the CURE Cordless*

### Box Contents

<u>QTY:</u>	<u>DESCRIPTION:</u>
1	<i>the Cure Cordless</i> handpiece with 8mm lens and battery
1	Charging stand with power supply
2	Light Shields – for eye protection
50	Sleeves – for protective barrier
1	Wrench – for changing lens
2	Flat surface mount holders
1	Operations Manual and Warranty Card

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## 1. DESCRIPTION

*the CURE Cordless* is an LED dental curing light for the polymerization of dental composites, sealants and adhesives.

## 2. ERGONOMIC FEATURES

- Light weight
- Equipped with two on/off buttons. This allows you to easily control the function of the light from any position.
- Flat surface mount included. Conveniently mounts any where in the operatory or on the dental unit

### Dimensions

Length: 210mm (8.2 inches)

Width: 22mm (.87 inches)

Weight: 110 grams (3.9oz)

## 3. SPECIFICATIONS

- |                       |  |
|-----------------------|--|
| a) Battery            | Lithium-Ion 3.7V nominal   |
| b) Power Input        | 5V DC  |
| c) Operation          | Continuous operation with intermittent loading. "Set and forget" adjustable timer. 15 second rest period needed in between 20 second cycles if running continuously (as in orthodontic cases). |
| d) Lamp               | Ultra-high output LED. Service center replacement only. Life expectancy is in excess of 5000 hours.  |
| e) Output Wavelength  | 450 to 490 nm  |
| f) Output Intensity   | Low output 500mw/cm <sup>2</sup><br>High output 1000 mw/cm <sup>2</sup>  |
| g) Thermal Protection | If overheating occurs, the unit will shut off for a brief time and four beeps will be heard.   |
| h) Fuse               | Internal to handpiece. Automatic reset.  |
| i) Shutoff            | When digital countdown timer reaches zero, or by pressing on/off button when the light is in use.  |

## 4. CONTRAINDICATIONS:

This LED has a narrow peak at 470 nm and should only be used on dental formulations containing camphorquinone as the photo initiator; it is contraindicated with other photo initiators. To date the only known resins that will not cure properly with this light are: Pyramid Enamel (Bisco), Principle (Dentsply Caulk) and Den Mat (Core Build-up). **The practitioner should always perform a test outside of the mouth if in doubt.**

## 5. SAFETY PRECAUTIONS

**CAUTION:** The light is provided in a non-sterile condition and must be disinfected prior to patient contact. **CAUTION:** This curing unit produces high output curing energy. A significant increase in curing energy is possible compared with equipment previously used. It is important to observe the following precautions and procedures.

**CAUTION:** Do not place light directly on or towards unprotected gingiva or skin. **CAUTION:** Adjust the curing techniques in accordance with the increase in curing energy. Some examples are: decrease curing time, increase composite thickness, increase distance between the tip of the curing light and light cured materials.

**CAUTION: Do not look directly at the light emitted from this curing unit.** Do not use this device without protective eyewear for the operator, assistant and patient. Suitable protective eyewear blocks all energy below 550 nm. **ATTENTION:** Infection control barrier sleeves (curing sleeves) should be changed after each patient.

## 6. SETUP & OPERATION

**Charging** Place the CURE Cordless in the charging stand and charge for 5 hours or until the indicator light stays green. The handpiece may be stored in the charging base to maintain the battery charge. Replace in the stand after each use.

**Indicator light:** Red = Charging                      Blinking RED = Low Battery  
Green = Charged                      Blinking Green = Charged  
After the unit is used the indicator will continue to blink for a few seconds. It will then go into a sleep mode to preserve the battery.

Once the battery charge becomes low the red indicator will blink. At this time, approximately 10 twenty-second curing cycles remain

**On** Single click either on/off button  
**Off** Automatic shut off when the digital timer reaches zero, or single click either button to stop the cycle.

**Set Timer** Hold both on/off buttons down at the same time. The digital timer will count down from 20, 16, 12, 10, 8, 6, 4, 2 and back to 20. Release the buttons when you reach desired time. "Set and forget" timing: the unit will hold desired time set until it is changed by the operator.

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