

# BLAST™ LITE

High Performance Curing Light

## Owner's Manual



LB005



### WARNING!

- \* Do not look directly at LED or light guide while the unit is on
- \* Do not immerse unit in water or any other liquid
- \* Use only for curing dental materials
- \* Do not use around any flammable liquids or gasses

*United States law limits the sale of this device only to dental professionals for use as directed in this manual.*

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### Charging the Blast Lite

The Blast Lite is shipped from the factory with little, if any charge. Plug the charger plug into the base of the Blast Lite then place the flat end of the light into the well on the charging base.

A blue light on the base indicates that the unit is fully charged, a red light means that it needs to be charged. The indicator light on the wall charger will get brighter when the wand is placed in the charger. The light will go on, even if the wall charger is not plugged in, to indicate that a good connection is made between the charger base and the handpiece. Make sure that the indicator light on the transformer is brightly illuminated.

The Blast Lite uses Lithium Ion batteries which do not have a memory effect. These batteries can be recharged at any time with no adverse consequences.

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### Package Contents



- A - Light Wand
- B - Charging base
- C - Wall charger
- D - Light shield
- E - Fiber optic Tip

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### Operation

Operation of the Blast Lite is very simple. The top button (A) turns the unit off and on. If the light is left without use for 5 minutes it will power down to preserve battery life. Pressing (A) briefly will wake the unit and the small LED by the "0" will illuminate.

Three timer settings are available, 5, 10 and 20 seconds. Times can be selected by pressing button (B) which will cycle through the three options. A small LED next to the time will indicate the selection. A beeper will sound when the unit is turned on, every five seconds and when it shuts off. A curing cycle can be stopped at any time by pressing button (A).



Using the light eight times within a four minute period will cause the unit to "pause" for thirty seconds. This will be indicated by a flashing LED by the "0". After the light stops flashing the unit can be used normally again.

There is no "off" button. The unit will go into a sleep mode after three minutes of inactivity.

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## Operation (cont)

The glass tip can be removed and autoclaved, chemically cleaned or sterilized in glutaraldehyde. Additional tips can be ordered from your dental dealer if needed.

The blue LED at the heart of the Blast Lite is tuned to 470 nanometers. This is very near the peak absorption spectrum of Camphoroquinone (CQ). Light intensity at other wavelengths, or colors, is minimal, therefore the Blast Lite will only cure CQ activated composites, cements, sealants and other materials.

It is the practitioners responsibility to ensure that the material being cured is CQ initiated and will work with blue LED lights, including the Blast Lite.

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## Caution

\* Though LED lights are much cooler than Halogen lights the unit does emit some heat. Shining light on tissues longer than 5 seconds can cause discomfort.

\* After prolonged use the area near where the tip plugs into the wand may become hot

\* Always use the provided orange shield or orange colored glasses. Do NOT look directly into the light source or the fiber optic tip when in use. Do not let the patient look directly at the light.

\* The Blast Lite is regulated by the US FDA. As such its use is restricted to dental professionals.

\* The Blast Lite will only cure Camphoroquinone (CQ) activated materials. Before using the light ensure that the material being cured is CQ activated. If there are any questions contact the material manufacturer.

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## Care of the Blast Lite

The Blast Lite can be cleaned using *Medica DC-10*, or other similar disinfectant cleaners.

The fiber optic glass tip can be sterilized in an autoclave or *Medica-28 Plus* activated glutaraldehyde, or similar glutaraldehyde sterilants.

To order *Medica DC-10* or *Medica-28 Plus* contact First Medica at [www.firstmedica.com](http://www.firstmedica.com) or call (800) 777-7072 x3

### Warning!

- \* Do NOT immerse the curing light or charging base in any liquid.
- \* Do NOT use phenol or butyl based cleaners. These may cause the plastic to crack and flake and will void the warranty.
- \* Do NOT use abrasive cleaners such as Comet or Ajax as they will scratch the finish and void the warranty

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## Technical Specifications

*First Medica* part number: LB005 - Blast Lite

AC Power supply input - 120V AC, 60Hz  
DC Power output - 4.2V DC, 0.50 Amps

Batteries: 2,000 MAh, Lithium ion

LED Module, 10 watt nominal, 470 nm peak wavelength

Power output using supplied tip with full charge on Blast Analog Light Meter (LBM01) > 1,600mw/cm<sup>2</sup> at 5 second timer setting, 10 and 20 second output >900mw/cm<sup>2</sup>

Duty Cycle is 8 cycles on then 30 seconds off.

The Blast Lite is assembled in the United States from domestic and foreign components.

The Blast Lite is manufactured exclusively for *First Medica*. For accessories or questions contact *First Medica* through its web site [www.firstmedica.com](http://www.firstmedica.com) or call (800) 777-7072 x3.

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## Warranty

First Medica warrants that the Blast Lite™ shall be free of defects in material and workmanship for a period of two years after the initial sale.

This warranty does NOT cover damage resulting from using the Blast Lite in a manner inconsistent with instructions found in this manual. The warranty does NOT cover damage due to physical abuse of the unit nor does it cover breakage of the fiber optic light guide.

**THIS WARRANTY IS THE SOLE AND COMPLETE WARRANTY OF THE BLAST LITE. FIRST MEDICA SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE FAILURE OF THE BLAST LITE. IT IS THE OWNER'S RESPONSIBILITY TO TEST THE BLAST LITE'S SUITABILITY FOR USE WITH ANY PARTICULAR LIGHT-ACTIVATED MATERIAL.**

For warranty service send the unit to:

Blast Lite Service  
First Medica  
13030 Homer Smith Rd.  
Piedmont, SD 57769  
[www.firstmedica.com](http://www.firstmedica.com)  
(800) 777-7072

2 YEAR  
WARRANTY



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