



## Visible Light Spot Curing System

The BlueWave™ LED visible light, high-intensity spot curing system offers many advantages over traditional UV spot curing systems including...*no bulbs to change, cool cures, no warm-up, and constant intensity* for thousands of hours. The *BlueWave LED* generates light using an array of surface mount LEDs (Light Emitting Diodes) instead of traditional metal halide or mercury bulbs. The LEDs produce visible light energy in a relatively narrow wavelength band centered at 410 nm, as contrasted to a typical broad band, high-pressure UV bulb (300-500 nm) (*see chart on page 2*). This system emits a maximum visible light intensity output of over 3,000<sup>1</sup> mW/cm<sup>2</sup> from an 8 mm diameter lightguide, and allows users to adjust intensity output from 0% to 100%. The relatively narrow band produced by LEDs generates cooler curing temperatures. The *BlueWave LED* is excellent for spot curing of coatings, as well as adhesive bonding of polycarbonate, PVC, PET, metal, glass and many other substrates.

*Please call the DYMAX Application Engineering Group for adhesive or coating recommendations best suited for this LED curing system.*

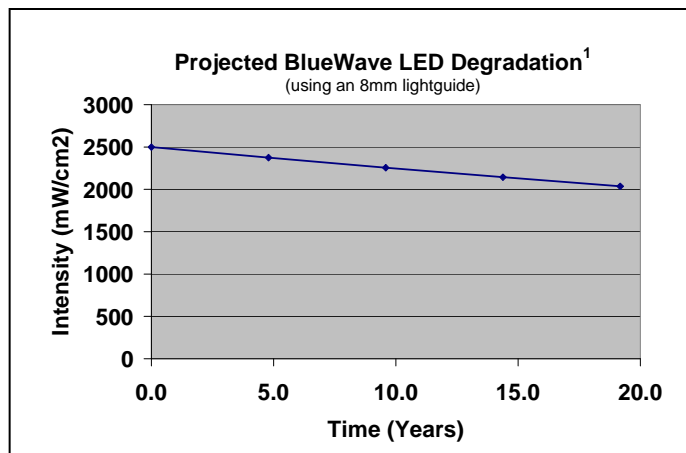
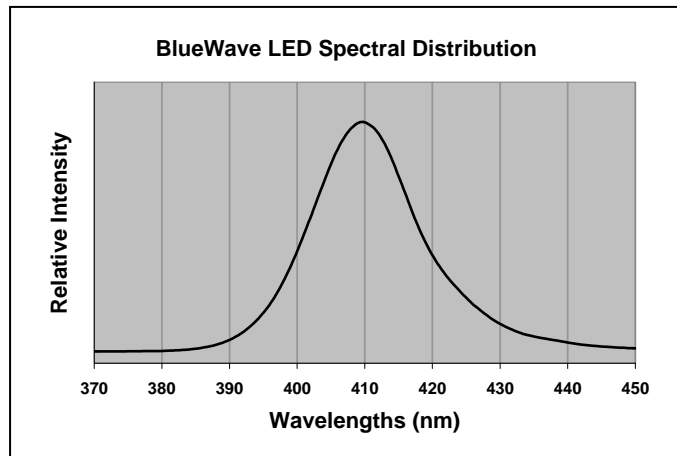


FEATURES	
Over 2,500 <sup>1</sup> mW/cm <sup>2</sup> of curing energy	Useful LED life of over 50,000 hours!
Constant intensity for thousands of hours	Intensity adjustment feature from 0% to 100%
Low cost to purchase and maintain – (high ROI)	Instant On/Off (no warm-up)
Cool cures – ideal for thermally sensitive substrates	Small form factor (60% of the size of the DYMAX BlueWave™ 200)
Large, flexible 8 mm x 1 meter lightguide standard	Foot switch or PLC controlled exposure time

<sup>1</sup> As measured through an 8 mm liquid lightguide with an ACCU-CAL™ 50 visible radiometer (400-470 nm).

## SPECIFICATIONS

Output	3,000 mW/cm <sup>2</sup> adjustable from 0% to 100%
Power Requirements	100-240V, 47-63 Hz (Auto Ranging)
LED Timer	Digital LCD timer up to 99.99 seconds; manual or timed exposure
LED Activation	Foot switch or PLC
Cooling	Single filtered fan; thermally controlled to maintain proper LED temperature
Hour Meter	Digital LCD
Housing Dimensions	8.375" x 8.75" x 5.5" (21.3 cm x 22.2 cm x 14.0 cm)
Weight	4.85 lbs. (2.22 kg)
System Warranty	1 year from purchase (lightguide not included)
Part Number	<b>40070</b> (includes an 8 mm lightguide) <b>40083</b> (system without a lightguide)
Recommended Lightguides <i>(may be sold separately)</i>	<b>5720</b> (5 mm x 1 M liquid-filled lightguide) <b>5721</b> (5 mm x 1.5 M liquid-filled lightguide) <b>5722</b> (8 mm x 1 M liquid-filled lightguide)



<sup>1</sup> Initial data measured using an ACCU-CAL 50 Visible (400-470 nm). Assumes 100% duty cycle, eight hours per day, five days per week. The intensity adjustment feature can be used to allow constant intensity output levels (if required).

*For further assistance with adhesive and equipment selection, contact our DYMAX Application Engineering Group.*

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 In Europe Call: 0049.69.7165.3568  
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[www.visiblecure.com](http://www.visiblecure.com)

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Please note that most dispensing and curing system applications are unique. DYMAX does not warrant the fitness of the product for the intended application. Any warranty applicable to the product, its application and use is strictly limited to that contained in DYMAX's standard Conditions of Sale. DYMAX recommends that any intended application be evaluated and tested by the user to insure that desired performance criteria are satisfied. DYMAX is willing to assist users in their performance testing and evaluation by offering equipment trial rental and leasing programs to assist in such testing and evaluation. Data sheets are available for valve controllers or pressure pots upon request. LIT210 1/24/2008

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