

BlueWave[®] LED DX-1000 VisiCure[™]

Flexible LED Light-Curing System

The Dymax BlueWave[®] LED DX-1000 VisiCure[™] is a flexible LED light-curing system which produces visible light energy in a relatively narrow wavelength band centered at 405 nm. This system utilizes liquid-filled or fiber-optic quartz lightguides to deliver up to 15 W/cm² of curing energy in a spot-cure configuration. It can also be configured to deliver up to 1 W/cm²* of energy over a 1" x 1.5" (2.5 cm x 3.8 cm) area for applications that require larger exposure area. The *BlueWave LED DX-1000 VisiCure* provides all the benefits of Dymax's advanced LED light-curing technology in a flexible system design that can adapt to meet changing business and application needs.

* Measurements taken at a distance of 1 inch (2.5 cm) away from the lightguide or lens.



BlueWave LED DX-1000 VisiCure Spot Lamp Package



BlueWave LED DX-1000 VisiCure Flood Lamp Package



BlueWave LED DX-1000 VisiCure Lab Developer Package
Includes All Parts Necessary for Both Spot and Flood Modes



BlueWave LED DX-1000 VisiCure Base System for Custom Mounting and System Integration (Mount Supplied by Customer)



Features	Benefits
Single or multi-pole lightguide and dual-lens optical accessory	<ul style="list-style-type: none"> Flexible, configurable light delivery options High-intensity spot cure Small-area [1"x1.5" (2.5 cm x 3.8 cm)] cure capability to ~3" (7.6 cm) distance
High-intensity LED with efficient cooling	<ul style="list-style-type: none"> Consistent LED frequency and intensity output for better process control Longer life than mercury-arc lamps and other LED curing systems Lower consumables and on-hand "spare" inventory costs (light source & lightguides)
LED with 405 nm narrow-spectrum output	<ul style="list-style-type: none"> Cooler cure environment for thermally sensitive substrates Replaces hazardous mercury-arc lamp with environmentally friendly LED
Lower energy consumption than conventional UV lamps (<100 Watts)	<ul style="list-style-type: none"> Reduced electrical consumption by up to 80%
Instant On/Off with 100% duty-cycle capability	<ul style="list-style-type: none"> Highest throughput (exposure cycles "at the speed of light") Significantly reduced maintenance downtime as compared to conventional lamp replacement
Shutter-free design	<ul style="list-style-type: none"> Reliable operation with lower maintenance costs (no moving parts)
Adjustable intensity (0 - 100% in 1% steps)	<ul style="list-style-type: none"> Superior accuracy (versus "closed loop feedback") for optimum process control
Self-contained, lightweight irradiator head with cable interface	<ul style="list-style-type: none"> Flexibility to mount the irradiator head remotely from controller for automated process equipment integration, or to free up valuable workstation surface space (up to 10 ft [3 M] from controller to irradiator)

Available System Packages

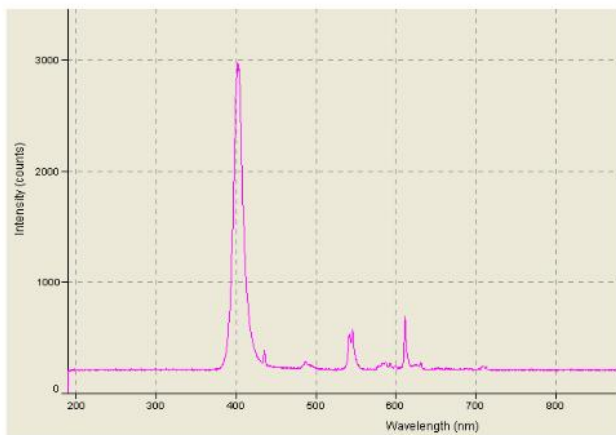
Package	No Power Cord	North American Version (120V Power Cord)	Asian Version (Type G Power Cord)
Base System Includes irradiator head with collimating optic #1, controller, footswitch, and magnetic shielding. Choice of interface cable and power cord.	41046	-	-
Flood Mode Package Includes controller, irradiator head, collimating optic #1, bench-top stand with silicone pad, magnetic shielding, footswitch, and interface cable	41047*	41049	41048
Spot Mode Package Includes controller, irradiator head, 5-mm lightguide, lightguide stand, lightguide adapter, footswitch, interface cable, lightguide mounting stand, and bench-top base	41051*	41053	41052
Lab Developer Package Includes controller, irradiator head, 2 interface cables, lightguide adapter, collimating optic #1, bench-top stand with silicone pad, bench-top base, 5-mm lightguide, footswitch, and magnetic shielding	41055*	41057	41056

* For European customers, the appropriate power cord is added.

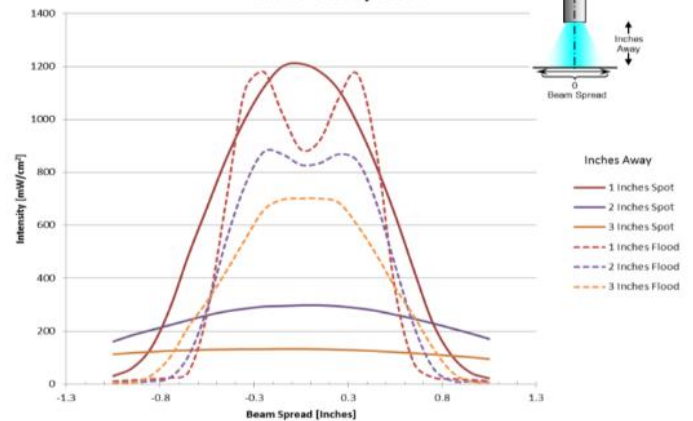
System Specifications

SPECIFICATIONS	
Output (measured by ACCU-CAL™ 50-LED)	1.2 [W/cm ²] at 1.0" in direct emission (flood mode) 15 [W/cm ²] with 5 mm x 1 M liquid lightguide (spot mode)
Power Requirements	100-240V, 47-63 Hz (auto ranging); 100 Watts maximum
LED Timer	0.1 to 999.9 seconds
LED Activation	Foot switch, front panel, or PLC
Cooling	Forced air / fan (controller and irradiator head)
Hour Meter	Digital LCD; total unit lifetime (non-resettable) and total LED exposure time
Controller Dimensions / Weight	6.5" x 9.0" x 2.25" [16.5 cm x 22.9 cm x 5.7 cm] (W x D x H) / 2.4 lbs [1.1 kg]
Irradiator Head Dimensions / Weight	4.0" x 5.0" x 4.5" [10.2 cm x 12.7 cm x 11.4 cm] (W x D x H) / 2.9 lbs [1.3 kg]
Interface Cable Length	Choice of 19" [48 cm], 3 ft [0.91 M], 6 ft [1.82 M], or 10 ft [3.04 M] lengths
Unit Warranty	Operation warranted for 1 year from purchase
Recommended Accessories	40505 ACCU-CAL™ 50-LED Radiometer

Spectral Output



Intensity by Distance and Delivery Mode



Accessories



Bench-Top Stand with Silicone Pad **PN 40725**



Bench Top Base and Lightguide Adapter Kit **PN 40755**



2 Lens Collimating Optic #1 **PN 40581**



Lightguide Adapter **PN 40743**

DYMAX EDGESM

LISTEN. ENVISION. DELIVER.

In addition to our light-curing equipment, Dymax also offers high-performance oligomers, adhesives, and coatings as well as a variety of dispensing equipment. Our products are perfectly matched to work seamlessly with each other, providing design engineers with tools to dramatically improve manufacturing efficiency and reduce costs. Dymax is committed to providing the best chemistry, curing equipment, and dispensing systems that offer customers complete manufacturing solutions for their challenging applications.



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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 ensure that desired performance criteria are satisfied. Dymax is willing to assist users in their performance testing and evaluation. Data sheets are available for valve controllers or pressure pots upon request. PB039 4/28/2013

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