

**Manufacturer:**

Dymax

Product Name:

Dymax BlueWave® FX-1250 High Intensity LED Curing Flood System - 365nm

Manufacturer Part Number:

88848

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▶ [Click here for more details on the Dymax BlueWave® FX-1250 High Intensity LED Curing Flood System - 365nm](#)

BlueWave® FX-1250 LED Flood-Curing System

High-Intensity, Large Area System for Speed, Depth, and Fullness of Cure

- Three wavelength emitters available - 365, 385, & 405 nm
- Over 2 W/cm² intensity (depending on wavelength)
- Large 5" x 5" curing area
- Control two emitters at once with two channel controller
- 7" touch screen interface
- PLC activation and control
- LED curing technology - no warm-up period, cooler curing environments, and many other advantages
- Standard recipe storage for program recall
- Integrates into the UVCS V3.0 Conveyor

The BlueWave® FX-1250 is a high intensity flood-curing system that delivers true, high-irradiance LED light for the best speed, depth, and fullness of cure from any Dymax LED curing system. For the user who needs to flood cure a large area, this system provides the best cure by combining intensities of over 2 W/cm² with a 5" x 5" (127 mm x 127 mm) curing area and high uniformity.

The BlueWave® FX-1250 is comprised of a controller and up to two LED emitters. The controller features a 7" touch screen with an intuitive, easy to use interface. It can be activated, controlled, and remotely monitored by PLC, and also store programs and parameters for repeatable processes. The controller also continuously monitors the health of the emitters and controller, and reports faults directly to the controller screen.

A single controller can operate up to two emitters to save on cost and space. Extra emitters can be used to increase the area of light delivery or to use multiple wavelengths to extend application flexibility. Users will also appreciate the enhanced quality of life provided by our quiet, efficient operation. A variable speed fan keeps noise to a minimum, while also minimizing heat emission.

System Configurations

The BlueWave FX-1250 offers maximum flexibility as it can be coupled with a full suite of accessories and used as a bench-top system or be integrated into conveyors and larger machines. It is compatible with the Dymax UVCS V3.0 conveyor system, which can mount up to four BlueWave FX-1250 emitters for fast, full cures in a high-speed process.

Contact the professionals at Fiber Optic Center for a quote or to get more details.

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System Features & Benefits

Features	Benefits
High intensity: over 2W/cm ²	High total irradiance for quick curing
Large 5" x 5" (127 x 127 mm) curing area	Efficiently cure large spaces and pieces
Excellent uniformity	Real 5" x 5" curing area Eliminates dead zones in conveyor applications
One controller operates up to two channels	Provides maximum application flexibility Reduces installation footprint
Emitters are available in 365, 385, or 405 nm wavelengths	Compatible with a variety of UV and visible light-curable materials Wavelengths can be mixed to produce optimal cures
Fully programmable with storage capability	Intensity can be set from 10-100% on each emitter Timer mode from 0.1 to 999 seconds Manual, timed and PLC operation modes Store up to 16 programs
Instant on-off	No warm-up period More energy efficient
PLC interface with multi-channel I/O	Easily incorporated into automated systems Full monitoring and diagnostics
Enhanced 7" touch screen HMI	Easy to use, navigate and program
Cross platform compatibility	BlueWave® FX-1250 emitters can be mounted on the UVCS 3.0 conveyor system

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Compatible Materials & Applications

The BlueWave® FX-1250 is ideally suited for a number of applications in the medical, consumer electronics, automotive, aerospace and defense, optical, and appliance industries. The chart below displays some of the materials commonly used in those industries and where the BlueWave® FX-1250 can be considered as a curing system.

Materials		
Adhesives		Medical device (catheter, needles, tube set, facemask) assembly; glass bonding (stemware, furniture, etc.); automotive headlamp assemblies; camera module assemblies; appliance assembly; speaker assembly; optical display bonding
Conformal Coatings		Printed circuit board protection in aerospace avionics, automobiles, appliances, and consumer electronics; camera module assembly; electric vehicle battery management systems
Potting Compounds		Tamper proofing; potting electrical connectors, switches, and sensors; cable potting; medical potting*
Maskants		Surface protection for turbine blades and rotorcraft components during processing; protection for surfaces during metal finishing processes; protection of orthopaedic parts during processing; protection of PCB components for consumer electronics, automotive electronics, avionics, and medical electronics; protection for surfaces during metal finishing processes*
Encapsulants		Chip encapsulation on PCBs used in automobiles, plane and helicopter control panels, consumer electronics, appliance, and medical diagnostic equipment*
Ruggedization Materials		Flex circuit reinforcement; wire tacking; ball grid array (BGA) ruggedization; Videos graphics arrays (VGA) ruggedization; shock absorption; underfill alternative*

* Materials cured with BlueWave® FX-1250 to be evaluated in customer application to their performance requirements.

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System Specifications

Property	Specification		
Emitter	RediCure®	PrimeCure®	VisiCure®
Output Frequency	365 nm	385 nm	405 nm
Intensity Output*	1.7 W/cm²	2.1 W/cm²	2.0 W/cm²
Curing Area	5" x 5" (127 mm x 127 mm)		
Power Requirements	100-240 V≈ 10 Amps, 50-60 Hz		
Cooling	Air cooled		
Dimensions (W x H x L)	1-CH Controller: 15" x 12.6" x 5.8" (380 mm x 320 mm x 165 mm) 2-CH Controller: 16.5" x 13.8" x 5.8" (420 mm x 350 mm x 165 mm) Emitter: 6.7" x 5.3" x 6.4 (170 mm x 134mm x 162 mm)		
Weight	1-CH Controller: 28.2 lbs. (12.8 kg) 2-CH Controller: 43.7 lbs. (19.8 kg) Emitter: 8.8 lbs. (4 kg)		
Unit Warranty	1 year from purchase date		
Operating Environment	10 to 40°C (50°F to 104°F) 0-80% relative humidity, non-condensing 2000-meter max. altitude		
Shipping and Storage Conditions	Temperature: -20°C to +50°C Humidity 10-80% RH, non-condensing Ship via standard ground, ocean or air freight		
Certifications	RoHS, CE Marked		

* Measured using a Dymax ACCU-CAL™ 50-LED radiometer in flood mode at 25-mm working distance.

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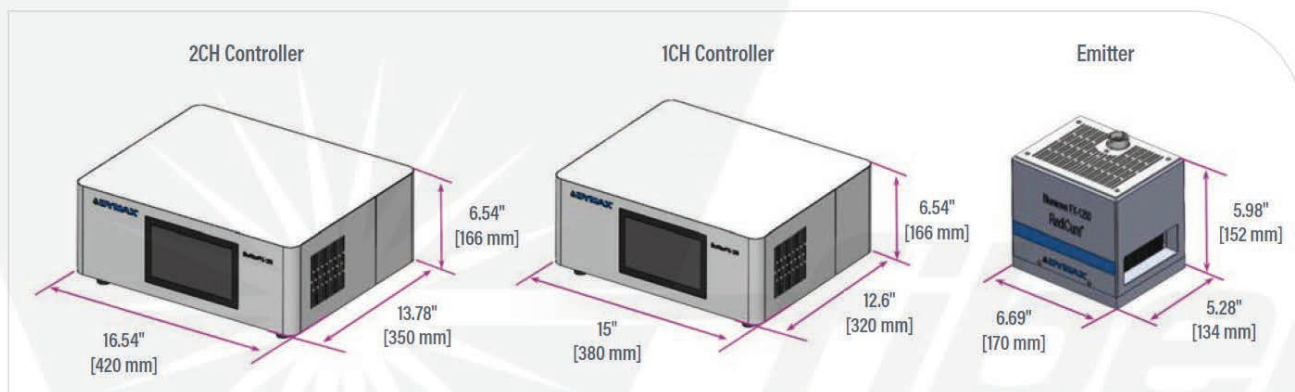
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Figure 1. BlueWave® FX-1250 Dimensions



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Emitter Performance

Figure 2. BlueWave® FX-1250 Emitter Spectral Output Chart

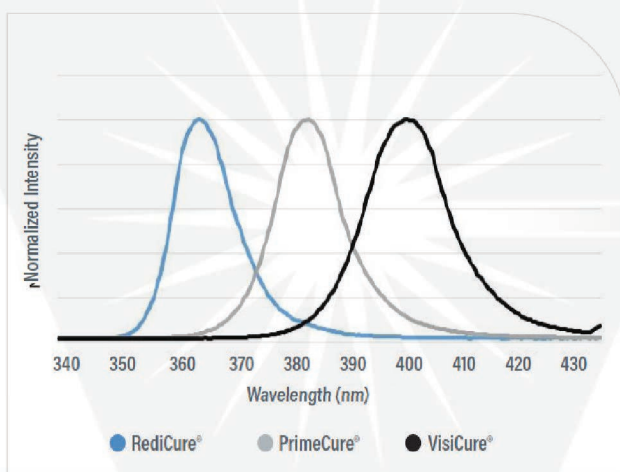


Figure 3. BlueWave® FX-1250 Intensity Over Working Distance

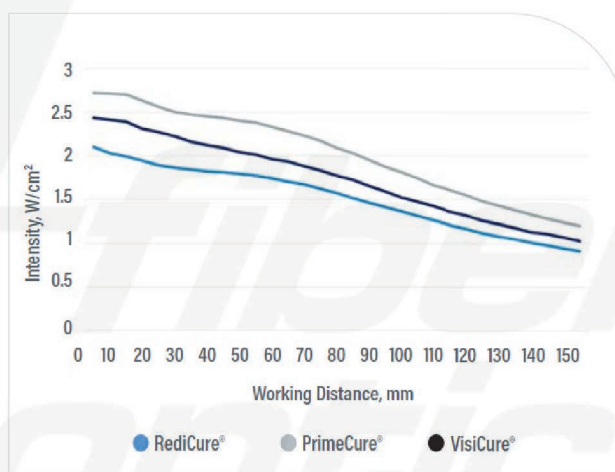
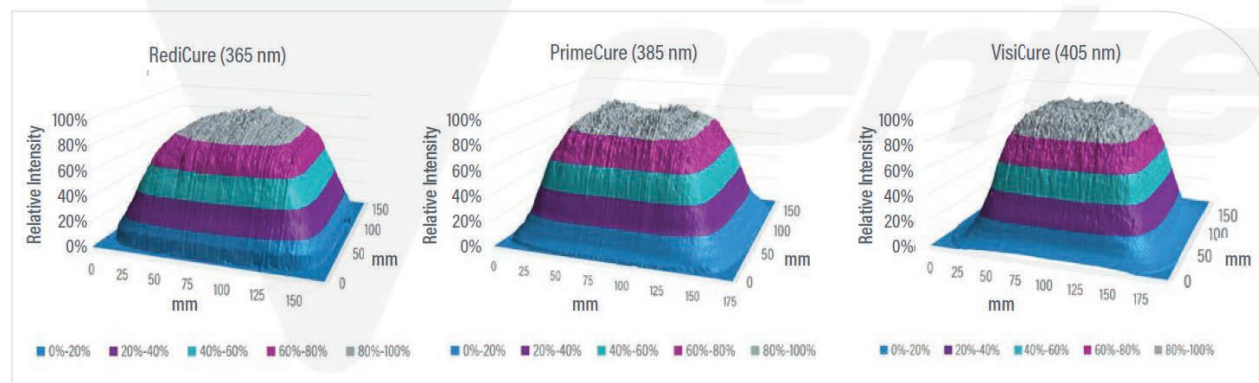


Figure 4. Uniformity/Intensity, 100% Intensity, 25-mm Working Distance



NOTE: Curing area data taken using Fuji UV Light Distribution Mapping System. Output intensity normalized using a Dymax ACCU-CAL™ 50-LED Radiometer.

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Degradation/Life Testing

LED curing systems use high intensity LEDs which do not require regular replacement, unlike broad-spectrum lamps. At Dymax, we provide high quality, reliable LEDs, which experience minimal degradation over long periods of use. Long-term life testing of BlueWave FX-1250 systems was conducted for 3,500 continuous hours at 100% intensity.

As noted in the graphs below, LED degradation was found to be very low for the BlueWave FX-1250 with less than 1% per 1,000 hours for all wavelengths. Our high intensity emitters can often lengthen their lifetime by running at intensities below 100%. To extend lifetime even further, LEDs can be turned on and off instantly, with no warm-up period. Contact Dymax Application Engineering for additional details on setting up an LED curing process for maximum throughput and LED die life.

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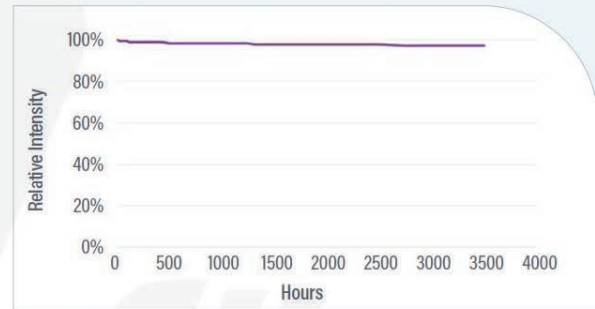
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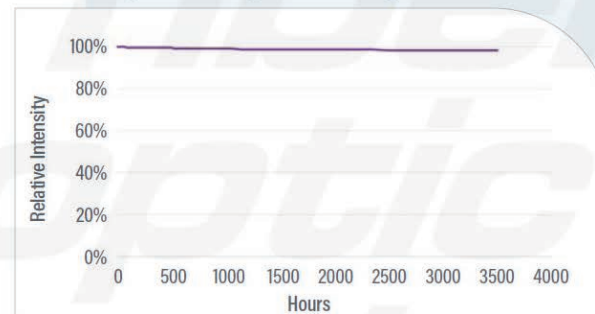
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RediCure® (365 nm) Emitters

- 100% Intensity resulted in a 0.13% degradation per 1,000 hours

Figure 5. LED Degradation Testing - RediCure®**PrimeCure® (385 nm) Emitters**

- 100% Intensity resulted in a 0.17% degradation per 1,000 hours

Figure 6. LED Degradation Testing - PrimeCure®**VisiCure® (405 nm) Emitters**

- 100% Intensity resulted in a 0.58% degradation per 1,000 hours

Figure 7. LED Degradation Testing - VisiCure®

Note: Testing conducted at 70°F +/-3°F and 30% +/-10% Relative Humidity

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Ordering Information

A complete BlueWave® FX 1250 system features multiple options for configuring a complete system. The controller is available in 1- and 2-channel variants. The emitter is available in 365, 385, and 405 nm wavelengths. Accessories noted in this bulletin can be added for specific applications. The units are warranted against defects in material and workmanship for one year from the date of purchase.

Complete System (1CH Controller, Interconnect Cable, 1X Emitter, Foot Switch, Power Cord)	
RediCure (365 nm)	88848
PrimeCure (385 nm)	88849
VisiCure (405 nm)	88855

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