Dymax BlueWave® FX-1250 High Intensity LED UV Curing Flood Lamp

Description

Dymax BlueWave FX-1250 LED UV curing flood lamps combine high intensity LED UV light with a consistent, uniform output over a large area, to achieve industry-leading curing performance. Capable of outputting up to 2,100 mW/cm² over 127 mm x 127 mm, the system enables the rapid, efficient curing of compatible **UV adhesives and materials**.

This flexible system uses a single base controller to operate a standalone, mountable LED UV emitter. Available in 365nm, 385nm, or 405nm wavelengths, emitters can be selected to best suit your materials and processes. Controllers which operate two emitters are also available, significantly increasing the curing area and allowing simultaneous use of multiple wavelengths to extend application capability.

The curing system is controlled through a large, 7” touch screen, which operates an easy-to-navigate user interface. It can also be activated, controlled, and remotely monitored via a PLC connection.

LED Light-Curing Technology

Dymax LED UV curing systems generate curing energy using high-intensity LEDs in lieu of conventional arc lamp technology. The relatively narrow frequency band of energy emitted by LEDs results in cooler curing environments and substrate temperatures compared to traditional UV-style lamp systems, making them ideal for curing thermally sensitive materials. Dymax LED UV curing systems offer many energy and cost-saving benefits, such as no warm-up period, lower energy

consumption, no bulbs to change, and more consistent frequency and intensity output for better process control.

Features & Benefits

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- Large cure area: 127 mm x 127 mm
- Highly uniform and even LED UV light across the cure area
- Intensities from 1,700-2,100 mW/cm^2 depending on wavelength
- Three wavelengths available: 365, 385, and 405 nm
- Uses LED technology, allowing consistent output, no bulbs to replace and no warm-up time

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- Simultaneously supports two emitters for multiple part processing
- 7” touchscreen, menu-driven programming and operation
- Allows for control and monitoring of power levels, exposure times/routines, and system health and safety lockout via PLC interface
- Direct-to-frame pre-drilled holes for stability and easy mounting
- Optional light shields available for complete UV protection when used as a benchtop system

Specifications

Dymax BlueWave FX-1250	RediCure™	PrimeCure™	VisiCure™
Output frequency	365 nm	385 nm	405 nm
Intensity output* at 25 mm working distance:	1,700 mW/cm^2	2,100 mW/cm^2	2,000 mW/cm^2
Curing area	127 mm x 127 mm		
Dimensions (H x W X D)	Single Channel Controller: 38 cm x 32 cm x 16.5 cm Dual Channel Controller: 42 cm x 35 cm x 16.5 cm Emitter: 17 cm x 13.4 cm x 16.2 cm		

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Dymax BlueWave FX-1250	RediCure™	PrimeCure™	VisiCure™
Weight	Single channel controller: 12.8 kg Dual channel controller: 19.8 kg Emitter: 4 kg		
Cooling	Air cooled		
Power requirements	100-240V 10A, 50-60 Hz		
*Measured using a Dymax ACCU-CAL™ 50-LED Radiometer in flood mode at 25 mm working distance			

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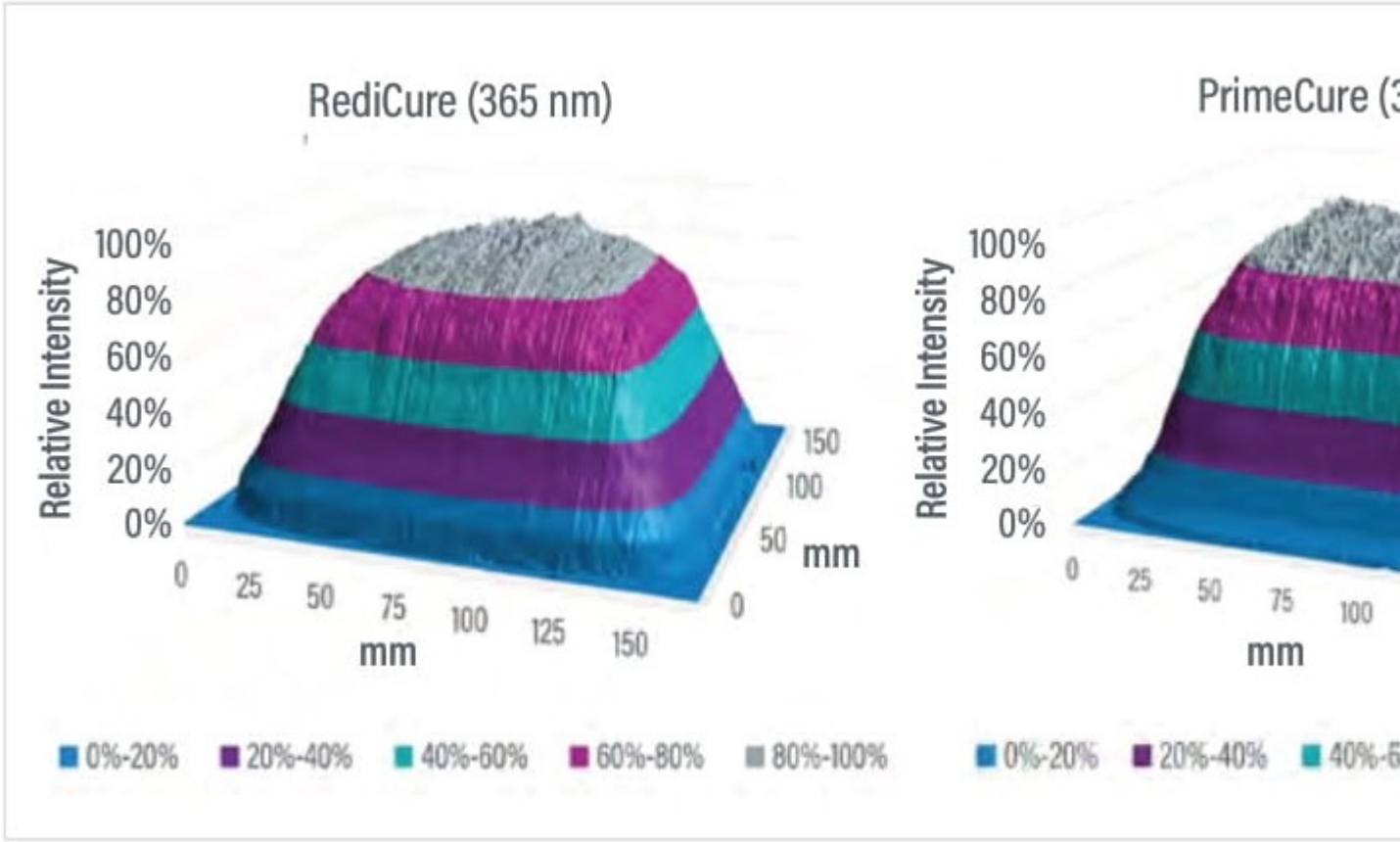

Uniformity intensity at 100% Intensity, 25-mm Working Distance

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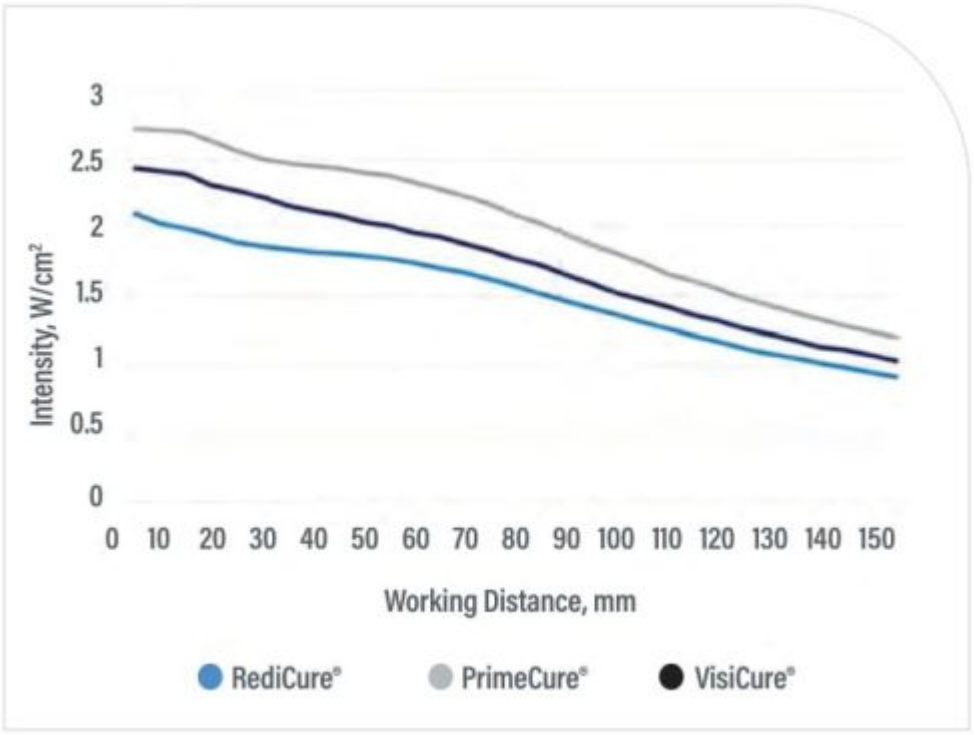

BlueWave FX-1250 Intensity Over Working Distance

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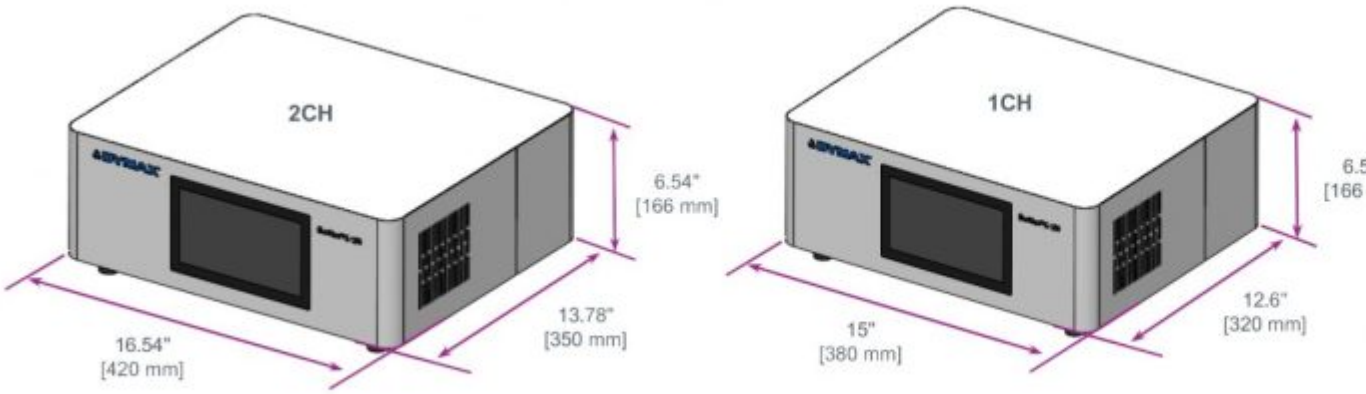
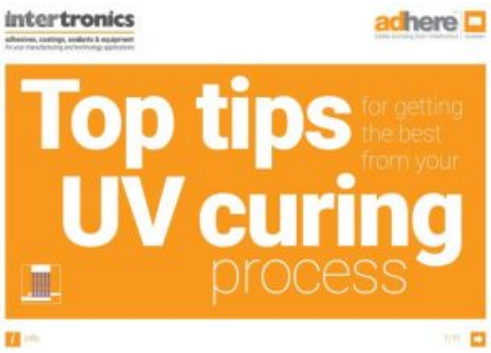


BlueWave FX-1250 Equipment Dimensions

Other Information

Dymax BlueWave® FX-1250 High Intensity LED UV Curing Flood Lamp

	Top Tips for getting the best from your UV curing process Read through our easy-to-follow guide on UV curing to maximise your processes productivity.

Find out more about the technology behind the **FX-1250** by reading our technical bulletins and white papers**:**

- **Sustainability Benefits of LED UV Curing**
- **UV Curing and Tack-Free Cures**
- **Nailing your UV curing adhesive process**

Ordering Information

A complete BlueWave FX-1250 system features a controller/power supply, at least one LED emitter,

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and one interconnect cable per emitter. Emitters are available in 365, 385, and 405 nm wavelengths. Accessories noted below can be added for specific applications. Components are sold separately. All lamps include a foot pedal and protective eyewear.

Units are warrantied against defects in material and workmanship for one year from date of purchase.

Part number	Description
FX-1250 LED Flood Curing Systems	
DYM88856	BlueWave FX-1250 RediCure 365nm LED flood system *Includes: FX-1250 RediCure emitter, interconnect cable, foot switch and controller/power supply*
DYM88857	BlueWave FX-1250 PrimeCure 385nm LED flood system *Includes: FX-1250 PrimeCure emitter, interconnect cable, foot switch and controller/power supply*

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Part number	Description
DYM88858	BlueWave FX-1250 VisiCure 405nm LED flood system *Includes: FX-1250 VisiCure emitter, interconnect cable, foot switch and controller/power supply*
FX-1250 LED Emitters	
DYM88801	BlueWave FX-1250 RediCure 365nm LED flood emitter
DYM88802	BlueWave FX-1250 PrimeCure 385nm LED flood emitter
DYM88803	BlueWave FX-1250 VisiCure 405nm LED flood emitter
FX-1250 Controller/Power Supply	
DYM88850	BlueWave FX-1250 single channel controller for 1 emitter
DYM88851	BlueWave FX-1250 dual channel controller for up to 2 emitters
Accessories	

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Part number	Description
DYM84124	BlueWave FX-1250 foot switch
DYM84025	BlueWave FX-1250 interconnect cable - Type L & L
DYM84026	BlueWave FX-1250 interconnect cable - Type I & L
DYM81016	Three-sided acrylic shield for BlueWave FX1250
DYM88844	BlueWave FX-1250 mounting stand with acrylic back shield
DYM88845	BlueWave FX-1250 UV light box shield *Complete enclosure. 360°of shielding. Removable shelf, easy open door.*

Let’s start by talking about your application

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orders@intertronics.co.uk

- Name*
- Company*
- Phone*
- Email*
- Post code*

If you're in the UK, knowing your postcode would help us get in touch even more quickly. If you're outside the UK, please indicate your country.

- Tell us about your application

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Any information that you submit using this form will be processed according to our privacy policy.

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