

# Dymax BlueWave® AX-550 v2.0 LED UV Curing Flood Lamp



## Description

The **Dymax BlueWave AX-550 V2.0** is a powerful **LED UV curing flood lamp** that combines a UV light emitter, controller and power supply into a compact, all-in-one design. It is used for the rapid curing of [UV curing adhesives and materials](#), using high-intensity UV light from LEDs. Eliminating the need for a large, traditional-style separate controller, this unit has a greatly reduced footprint and is easily integrated into automation or conveyor systems. The system is modular, and the emitters can be readily replaced to switch to another curing wavelength or upgraded. The Dymax BlueWave AX-550 V2.0 curing system features an easy-to-navigate user interface with a push-button control.

## 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

- Based on LED technology, so consistent output, no bulbs to replace and no warm-up time

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- Cure area 125mm x 125mm
- Intensities ranging from 650-800 mW/cm<sup>2</sup> depending on wavelength
- Three wavelengths available: 365, 385, and 405 nm
- Intuitive, menu-driven programming and operation
- Provides system status and troubleshooting
- Allows for control and monitoring of power levels, exposure times/routines, and system health and safety lockout via PLC interface
- Modular design enables replacement of emitter with different wavelength for optimisation of cure
- Units can be password protected to limit access to only authorised users
- Direct-to-frame pre-drilled holes for stability and easy mounting
- Optional light shield available for complete UV protection when used as a benchtop system

## Specifications

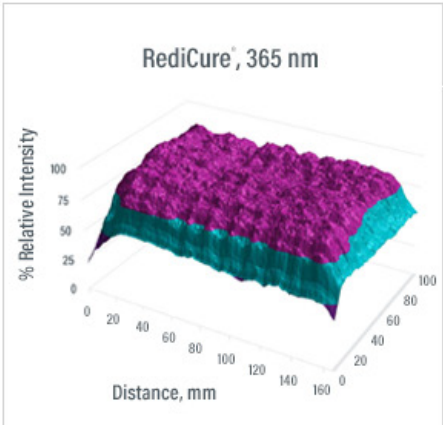
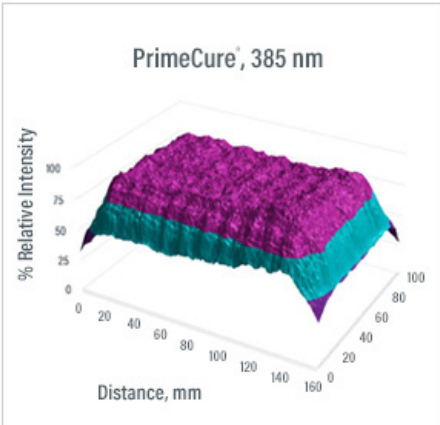
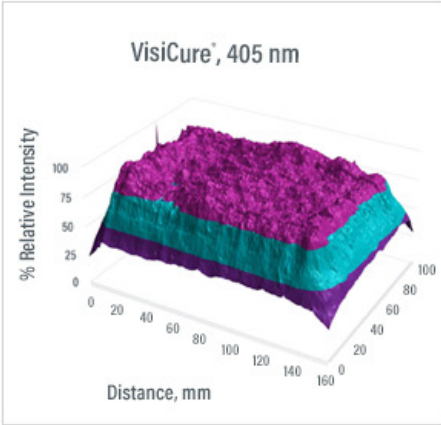
Dymax BlueWave AX-550	RediCure™	PrimeCure™	VisiCure™
Output frequency	365 nm	385 nm	405 nm
Intensity output*	650 mW/cm <sup>2</sup>	800 mW/cm <sup>2</sup>	800 mW/cm <sup>2</sup>
Cure area	12.5 cm x 12.5 cm		

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Dymax BlueWave AX-550	RediCure™	PrimeCure™	VisiCure™
Dimensions (H x W X D)	16.6 cm x 29.0 cm x 17.1 cm		
Weight	6.4 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			

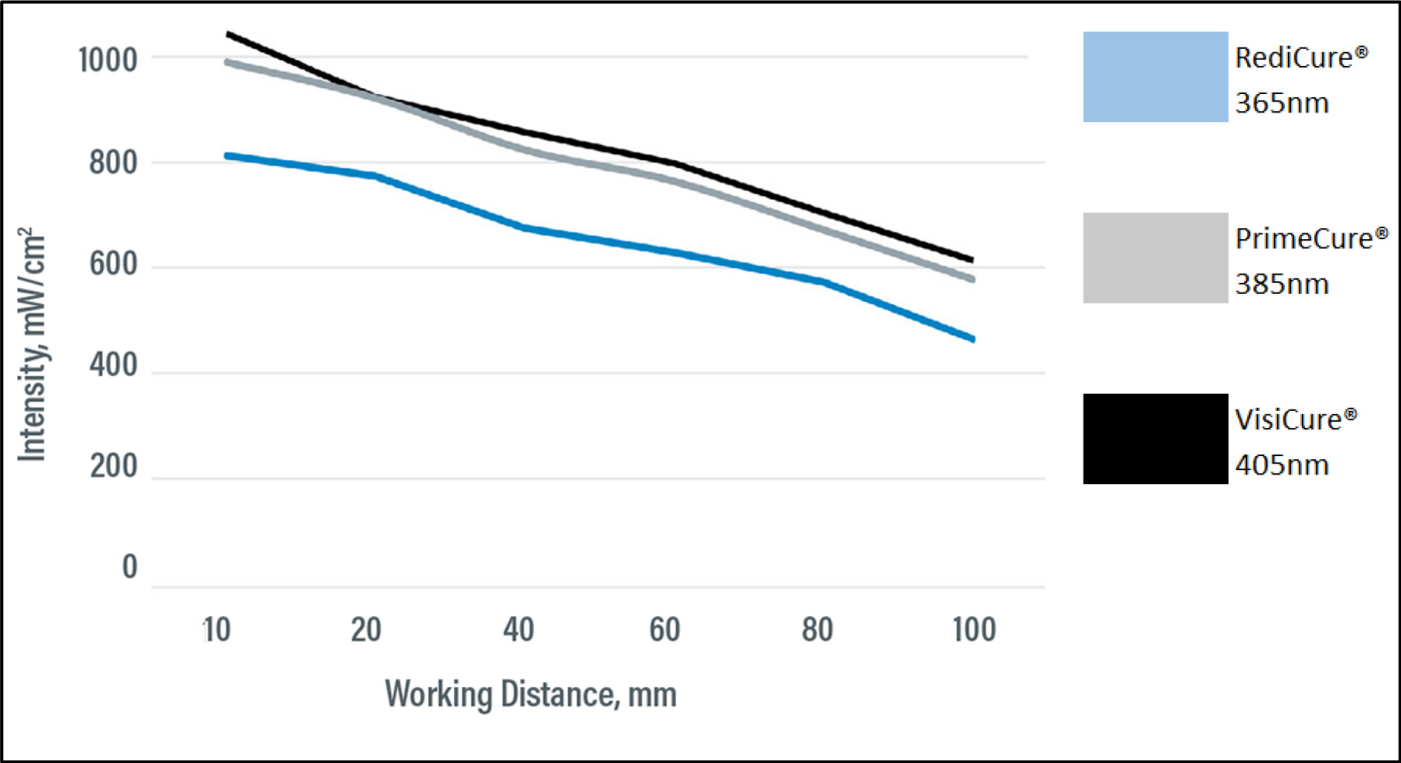
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% Relative Intensity: ● 0-25    ● 25-50    ● 50-75    ● 75-100

*Dymax Bluewave AX-550 V2.0 Uniformity Intensity, 100% Intensity at 25-mm Working Distance*

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Bluewave AX-550 V2.0 relative intensity vs. distance chart

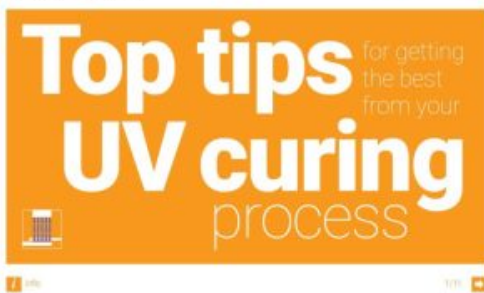
## Other Information

# Dymax BlueWave® AX-550 v2.0 LED UV Curing Flood Lamp



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## [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 **AX-550 V2.0** by reading our [technical bulletins and white papers](#):

- [Sustainability Benefits of LED UV Curing](#)
- [UV Curing and Tack-Free Cures](#)
- [Achieving Better Process Controls with Light Cure Technology](#)
- [Advances in Light Curing Adhesives and Coatings Lead to Process and Quality Benefits in Electronics Manufacturing](#)

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## Ordering Information

A complete BlueWave AX-550 v2.0 system features a combined emitter and controller/power supply. Emitters and controller/power supplies may be purchased separately. Accessories noted can be added for specific applications. The units are warrantied against defects in material and workmanship for one year from date of purchase. All lamps include a foot pedal and [protective eyewear](#).

Part number	Description
AX-550 LED Flood Curing Systems	
DYM60877	BlueWave AX-550 RediCure 365nm LED flood system
DYM60880	BlueWave AX-550 PrimeCure 385nm LED flood system
DYM60883	BlueWave AX-550 VisiCure 405nm LED flood system
AX-550 LED Emitters	

# Dymax BlueWave® AX-550 v2.0 LED UV Curing Flood Lamp



Part number	Description
DYM60753	BlueWave AX-550 RediCure 365nm LED flood emitter
DYM60752	BlueWave AX-550 PrimeCure 385nm LED flood emitter
DYM60754	BlueWave AX-550 VisiCure 405nm LED flood emitter
<b>AX-550 Controller/Power Supply</b>	
DYM60943	BlueWave AX-550 controller/power supply
<b>Stands &amp; Shielding</b>	
DYM60419	BlueWave AX-550 ECE lightshield kit
DYM43410	BlueWave AX-550 mounting stand with acrylic back shield and mounting carriage
DYM41395	Three-sided acrylic shield for BlueWave MX and AX series lamps
<b>Radiometers</b>	



# Dymax BlueWave® AX-550 v2.0 LED UV Curing Flood Lamp



Part number	Description
DYM40505	ACCU-CAL™ 50-LED Radiometer Kit for LED Spots, Floods, and BlueWave® QX4®

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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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