Dymax BlueWave® QX4™ LED UV Spot Curing Lamp

Description

The Dymax **BlueWave QX4 V2.0 high intensity LED UV spot curing lamp** features all the benefits of LED curing technology in a small, versatile unit. This system comprises a controller with a foot switch and up to four LED heads. The LED heads are available in 365nm, 385nm, and 405nm and can be outfitted with 3mm, 5mm, or 8mm diameter focusing lenses. LED heads and focusing lenses can be used in any combination and can be controlled through the system's variable mode, a feature that allows each head to be operated independently and individually programmed for intensity and cycle times. Individual exposure times and intensity settings can be set to 1% increments from 10-100% for each LED head, giving users maximum curing flexibility.

Peak intensity is up to **22,900 mW/cm^2** of curing energy. The **BlueWave QX4 V2.0** is capable of curing compatible adhesives, coatings, sealants and other light-curable materials quickly – often in a few seconds. Full output specifications are detailed in the product data sheet.

In addition to the curing flexibility, the **BlueWave QX4 V2.0** also features an easy-to-use control interface that allows flexibility in setup and use of the unit. The unit can be activated by foot pedal or by PLC interface, allowing it to be easily incorporated into automated systems.

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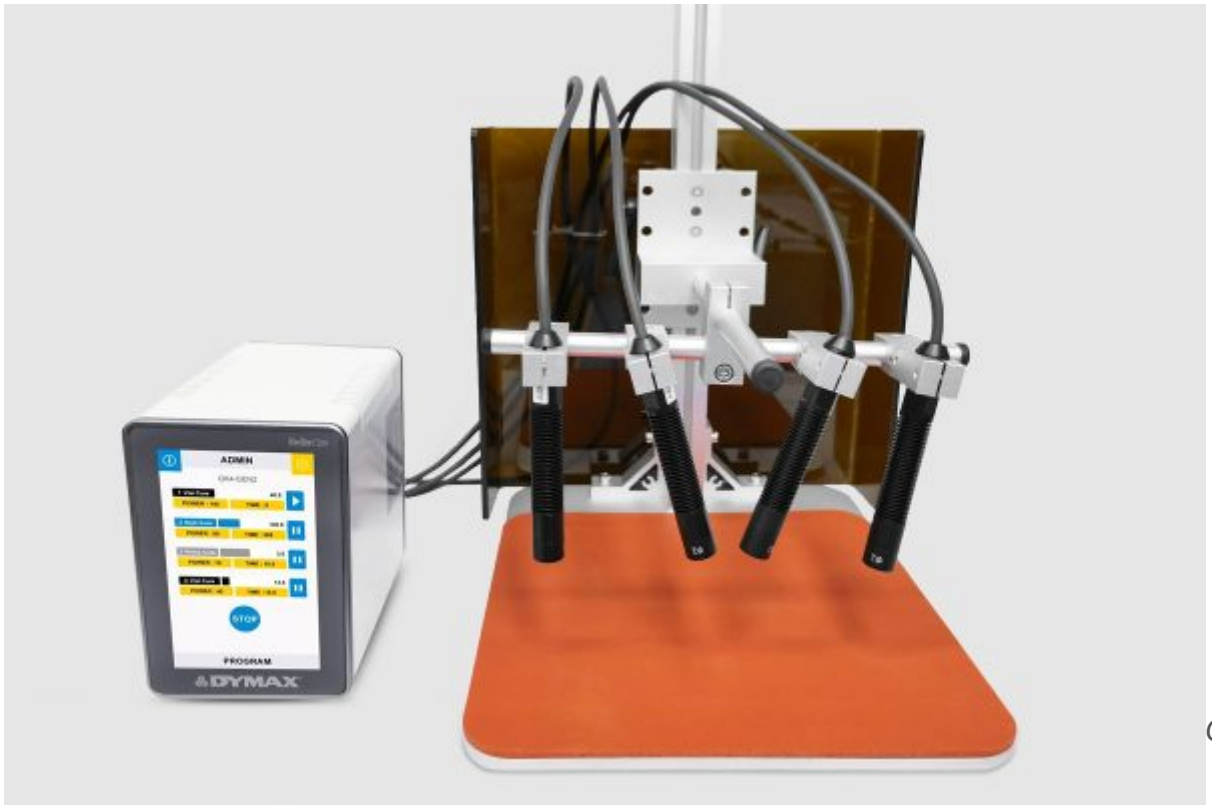

Control up to four LED wands independently for curing flexibility

Features & Benefits

Dymax BlueWave® QX4™ LED UV Spot Curing Lamp

Features	Benefits
One controller with up to four LED heads	· Provides maximum application flexibility
LED heads available in 365nm (RediCure), 385nm (PrimeCure), or 405nm (VisiCure) wavelengths	· Compatible with a variety of UV and visible light-curable materials · Wavelength flexibility allows co-optimization of adhesive and curing system for best cure · Units can be custom configured to your curing requirements
Variable mode allows each LED head to be programmed and operated independently	· Compatible with a variety of UV and visible light-curable materials · Wavelength flexibility allows co-optimization of adhesive and curing system for optimal cure · Units can be custom configured to your curing requirements
Interchangeable/Replaceable focusing lenses in 3mm, 5mm and 8mm diameters	· Allows tailoring of the unit to your curing requirements
Instant on-off	· No warm-up period · More energy efficient

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Features	Benefits
Efficient LED-head temperature management	· Maximized continuous operation without overheating · Comfortable hand-held operating temperature · Temperature monitoring assures maximum LED life
PLC interface	· Easily incorporated into automated systems

System Components

Complete BlueWave QX4 V2.0 systems feature:

- a controller/power supply with a foot switch
- up to four LED heads/wands
- three available lens diameters for each head/wand

The length of the head/wand with the direct wired cable is 1.0m (end to end). All components are available separately to enable upgrading and experimentation.

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Specifications

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Specification	RediCure™	PrimeCure™	VisiCure™
Output Frequency	365nm	385nm	405nm
Intensity Output*	16.9 W/cm^2	22.9 W/cm^2	22.0 W/cm^2
Power Supply Input	100-240 V ~2A / 50/60 Hz		
LED Timer	0.1 to 999 seconds		
LED Activation	Footswitch, front panel, or PLC		
Cooling	Natural convection		
Controller Dimensions	9.35cm x 14.75cm x 13.74cm (W x D x H)		
Weight	Controller: 1.00kg / Head: 0.13kg		
Unit Warranty	1 year from purchase date		
Operating Environment	5-40°C, non-condensing		

*Measured with a 3mm lens using a Dymax ACCU-CAL 50-LED Radiometer, in spot mode using the BlueWave QX4 V2.0 Integrated Optic Adapter

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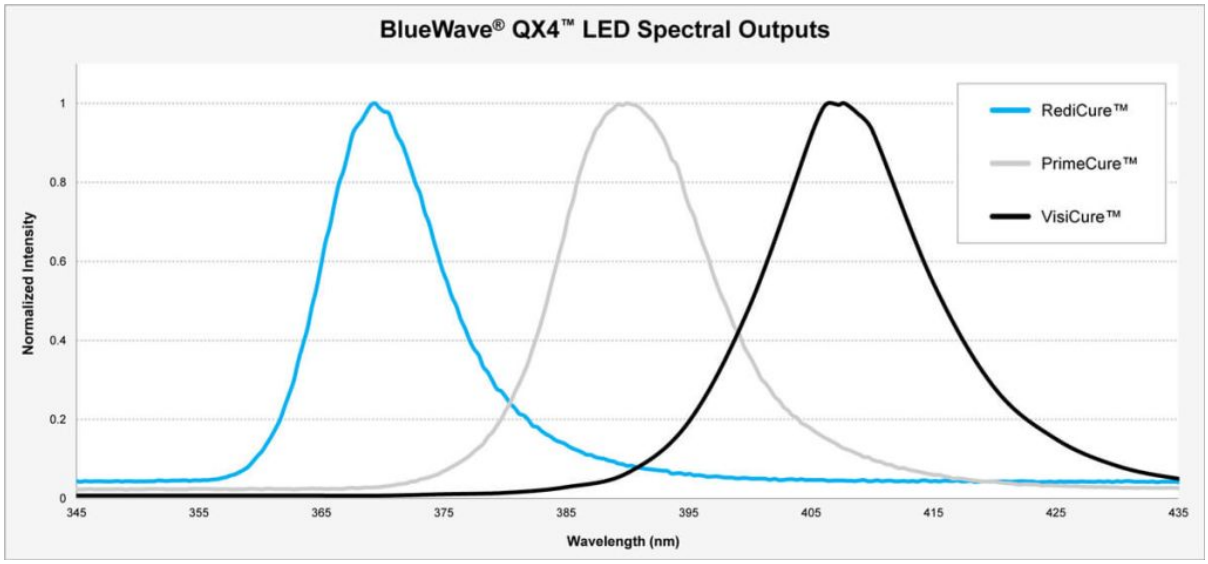
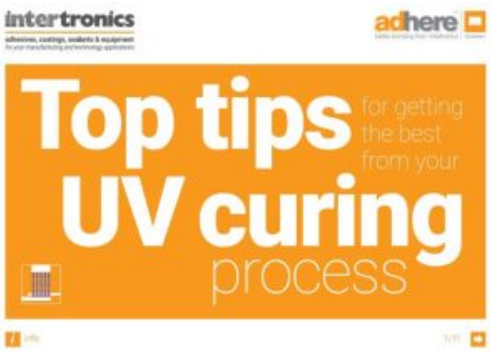


Other Information

Dymax BlueWave® QX4™ LED UV Spot Curing 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 QX4 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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See how the **Dymax QX4** works as part of a real application in this UV curing adhesive and equipment Case Study:

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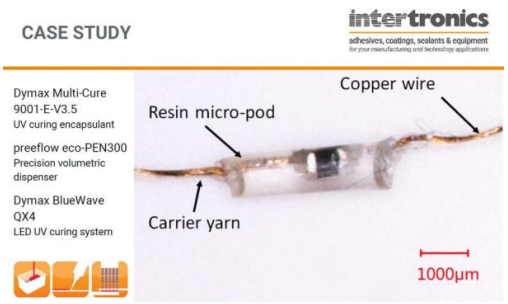

Electronic Textiles Development Benefits from UV Curing Resin and Precise Dispensing

The Advanced Textiles Research Group at Nottingham Trest University has been developing electronic textiles to add functionality to materials and garments. Part of the process involves encasing microchips within a polymer micro-pod in order to protect them from mechanical and chemical stresses during everyday use.

Ordering Information

Purchase a Controller and up to four LED head/wands. Each LED head/wand requires a lens. Minimum configuration is 1 x controller, 1 x LED head/wand and 1 x lens.

System Components

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Part number	Description
DYM88828	BlueWave QX4 Controller / Power Supply
DYM5028	Foot Switch
DYM43161	RediCure™ 365nm LED Head/Wand
DYM43162	PrimeCure™ 385nm LED Head/Wand
DYM88809	VisiCure™ 405nm LED Head/Wand 2.0
DYM43164	3mm Lens
DYM43165	5mm Lens
DYM81207	8mm Lens

Connection Cable Extensions

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Part number	Description
DYM41563	0.5m
DYM41565	1.5m
DYM41566	2.0m

Let’s start by talking about your application

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01865 842842	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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