

Dymax BlueWave® 200 UV Curing Spot Lamp with Intensity Adjustment



Description

The Dymax **BlueWave 200 UV curing spot lamp** offers very high intensity and simple operation in a versatile, user-friendly and reliable system.

The **BlueWave 200** is a high intensity, light curing spot lamp system. This spot curing lamp emits energy in the UVA and visible portion of the spectrum (300-450 nm) for light curing of adhesives, coatings, and encapsulants. Suited for either manual or automated processes, the unit contains an integral shutter which can be actuated by a foot pedal, from the front panel, or from PLC/automation and a universal power input that provides consistent performance at any voltage. A wide range of lightguides in various materials and configurations is available for use with this unit, providing application flexibility.

The new faceplate design features an improved operator interface with an easy-to-read LCD display, which is suitable for use in cleanrooms. The unit also features a patented intensity adjustment control, which is important for validating an appropriate intensity range and maintaining that range during production. Intensity measurement is easily accomplished with the [Dymax ACCU-CAL™ 50 radiometer](#). Scheduled intensity measurements taken during the production process will indicate whether additional intensity adjustments are required. This method of measurement provides the most accurate readings as they are taken through the lightguide in the actual production setting.

Control & Intensity Adjustment

Validation of a UV curing process identifies a minimum acceptable intensity range which ensures complete cure in an acceptable cycle time. Users can choose to operate at full intensity (intensity adjusted to 100%) or maintain a constant intensity (at some lower level) through periodic manual

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adjustments. The average BlueWave 200 bulb will typically degrade <1% per eight hours of normal use. The good manufacturing practice of routine intensity measurement with a [calibrated radiometer](#) will determine when and if any adjustments are required.



Dymax Bluewave 200 UV
curing spot lamp intensity
adjustment

Features & Benefits

- More than 17,000 mW/cm² initial intensity for fast, reliable cures
- Patented intensity adjustment feature, giving you full control
- Easy-to-read, back-lit front panel LCD display with enhanced unit status and notification displays
- Improved user interface for easier operation
- Up to 2,000 hours useful bulb life, 2,000 hours bulb warranty
- Integral shutter with digital timer
- Foot pedal or PLC integration

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- Proprietary “Cool Blue™” filter virtually eliminates lightguide degradation
- Wide range of lightguides available (liquid/fibre, single/multi-pole, various lengths)
- Bulb changes in less than one minute
- Universal power input operates worldwide
- Controlled power-up sequence ensures correct intensity is achieved before use
- Smooth front panel surface that is easy to clean, suitable for cleanroom use

Recommended Lightguides

Part number	Description (liquid filled, quartz fibre also available)	Minimum initial intensity (W/cm ²)	Typical intensity at 2000 hours (W/cm ²)
DYM5720	Single pole 5mm x 1m	17.0	8.0
DYM5721	Single pole 5mm x 1.5m	16.0	7.5
DYM5722	Single pole 8mm x 1m	13.0	6.5
DYM38476	Two pole 3mm x 1m	10.5	5.2
DYM38477	Three pole 3mm x 1m	9.0	4.5

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Part number	Description (liquid filled, quartz fibre also available)	Minimum initial intensity (W/cm²)	Typical intensity at 2000 hours (W/cm²)
DYM38478	Three pole 3mm x 1m	7.4	3.7



Dymax lightguide single pole



Dymax lightguide two pole

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Dymax lightguide three pole



Dymax lightguide four pole

Specifications

Specification	
Intensities	Total (280-450nm) 40+ W/cm ² Visible (400-450nm) 17+ W/cm ² UVA* (320-395nm) 17+ W/cm ² UVB (280-320nm) 7 W/cm ²
Intensity adjustment	Manual from 1% to 100% output
Power requirements	100-220 VAC, 50-60 Hz, 2.5 amps
Power supply	Solid state, 200 Watt

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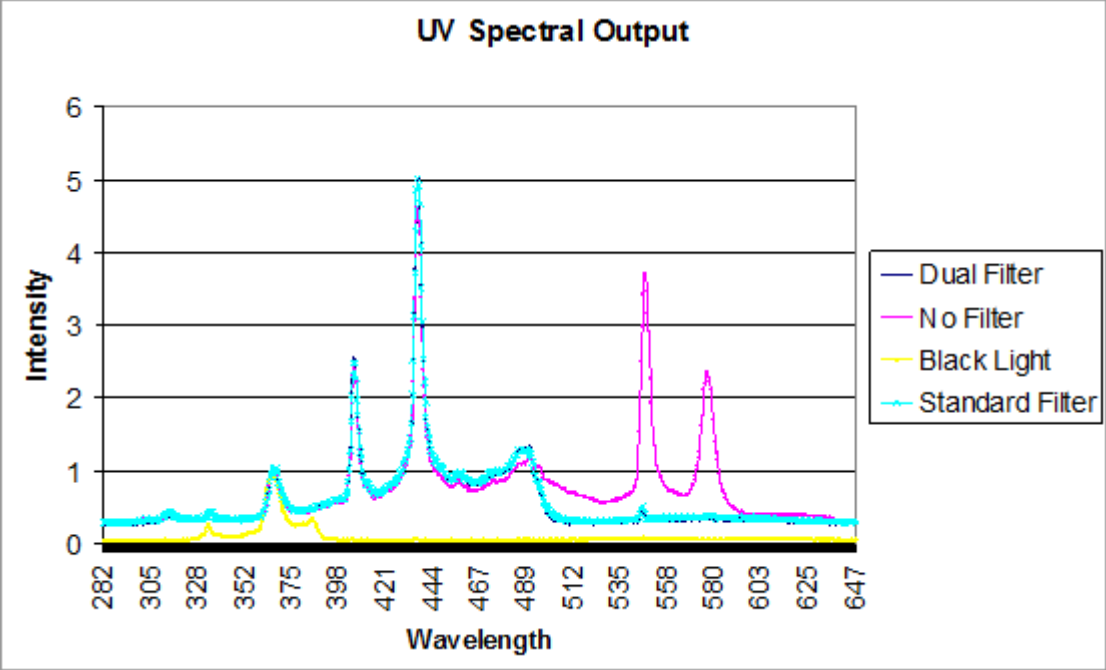


Specification	
Bulb	200 Watt metal-halide bulb included; replacement in less than one minute
Shutter timer	Digital LCD timer up to 9,999.99 seconds; also simple manual open/close operation
Shutter activation	Foot switch, panel switch or PLC
Reflector	Elliptical; glass with dichroic coating to reflect UV and minimize IR
I/O Port	15 pin D – sub-miniature connector
Signals (PLC integration)	Inputs: Shutter activate, shutter deactivate, lamp control, PLC enable Outputs: Unit status, temperature fault, shutter fault, lamp status, power status, shutter status, lightguide status, bulb life warning, bulb life expired
Cooling	Filtered, fan arrangement; thermally controlled to maintain proper lamp temperature
Dimensions (L x W x H)	305 x 318 x 165 mm

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Specification	
Weight	5.78 kg
*Measured through a lightguide simulator with a DYMAX ACCU-CAL 50 Radiometer Optional filters available	

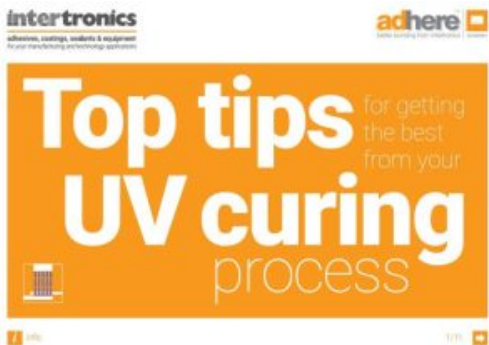


Dymax BlueWave 200 spectral output chart

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Other Information

 A graphic with an orange background. At the top left is the 'intertronics' logo with the tagline 'adhesives, coatings, sealants & equipment for your manufacturing productivity solutions'. At the top right is the 'adhere' logo with the tagline 'adhesive bonding solutions'. The main text reads 'Top tips for getting the best from your UV curing process'. There is a small icon of a UV curing lamp in the bottom left corner and a small 'TOP' icon in the bottom right corner.	<p><u>Top Tips for getting the best from your UV curing process</u></p> <p>Read through our easy-to-follow guide on UV curing to maximise your processes productivity.</p>
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

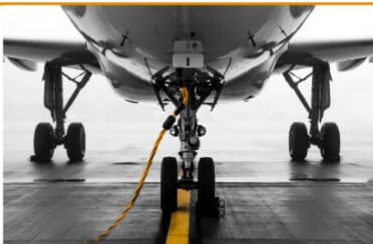
Find out more about the technology behind the **Dymax BlueWave 200** by reading our [technical bulletins and white papers](#):

- [UV Curing and Tack-Free Cures](#)
 - [Achieving Better Process Controls with Light Cure Technology](#)
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See how the **Dymax BlueWave 200** works as part of a real application in this UV curing adhesive and equipment [Case Study](#):

<div><div><div>CASE STUDY</div><div><div><div><div>Dymax SpeedMask® UV curing temporary masking liquid</div><div>Dymax BlueWave® 200 UV curing system</div></div><div></div></div><div><div>Customer</div><div>Aerospace landing gear and actuation manufacturer</div></div><div><div>Improving masking process for electroless nickel plating in Aerospace and Defense applications</div><div>An international company specialising in manufacturing and repairing landing gear and actuation systems for the aerospace market was looking for efficiencies in their electroless nickel plating process. Their target was to automate the masking process and increase throughput.</div></div></div></div></div>	<div><div><u>Electronic Textiles Development Benefits from UV Curing Resin and Precise Dispensing</u></div><div><p>A manufacturer of landing gear and actuation systems for the aerospace market was looking for efficiencies in their electroless nickel plating process. They wanted to automate the masking process and increase throughput, which they achieved with Dymax SpeedMask 7601 and a Dymax BlueWave 200 UV curing lamp.</p></div></div>
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Ordering Information

Part number	Description
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Dymax BlueWave® 200 UV Curing Spot Lamp with Intensity Adjustment



DYM41013	BlueWave 200 3.1 UV Curing Spot Lamp
DYM38465	200 Watt replacement bulb

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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