



Learn More



Manufacturer:

Dymax

Product Name:

Dymax 5000-EC UV Curing Flood Lamp with Light Shield & Zip™ Shutter

Manufacturer Part Number:

39821



Click here for more details on the Dymax 5000-EC UV Curing Flood Lamp with Light Shield & Zip™ Shutter

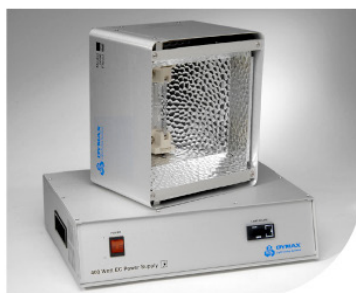
- Powerful UV light-curing lamps (up to 225 mW/cm²)
- Two bulb options (shortwave or long-wave)
- Large curing area - 5" x 5" (12.7 cm x 12.7 cm) or 8" x 8" (20.3 cm x 20.3 cm)
- Adjustable lamp height
- Typical cure times of 5-30 seconds
- Bulbs are warranted for 2,000 hours
- Shutter that can be actuated by foot pedal or PLC
- 100% shielding with safety interlock available

2000-EC & 5000-EC UV Light-Curing Flood Systems

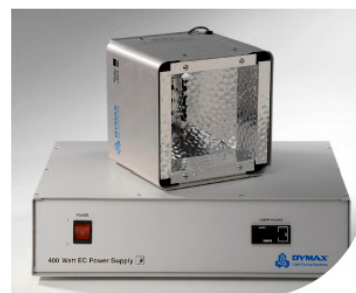
Dymax UV light-curing flood lamps offer moderate to high intensity UV light-curing over a 5" x 5" or 8" x 8" area. Curing in 5-30 seconds is typical using Dymax light-curable adhesives. These lamps are available with or without shutters and shielding and are simple to operate. Dymax UV flood lamps can be used as bench-top curing systems or easily integrated into automated assembly systems. These flood lamps offer the industry's most consistent intensity over the 2,000 hour bulb warranty.

2000-EC and 5000-EC UV Light-Curing Flood Lamps

The 2000-EC and 5000-EC modular UV light-curing flood lamps offer moderate to high intensity over a large area (up to 8" x 8"). By adding shielding and/or shutters, these UV light-curing flood lamps can be used as either turnkey bench-top systems or integrated into an automated assembly process. Either lamp may be fitted with bulbs that produce primarily shortwave UV, primarily longwave UV, or primarily visible light.



2000-EC modular power supply and housing,
8" x 8" curing area



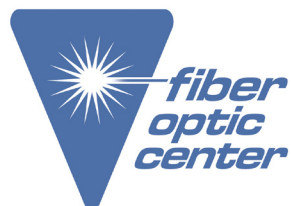
5000-EC modular power supply and housing,
5" x 5" curing area

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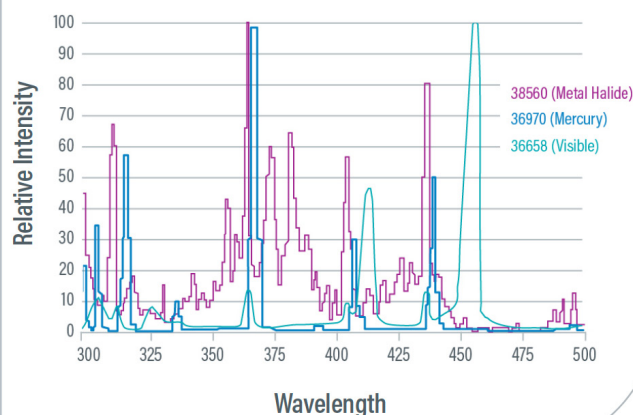
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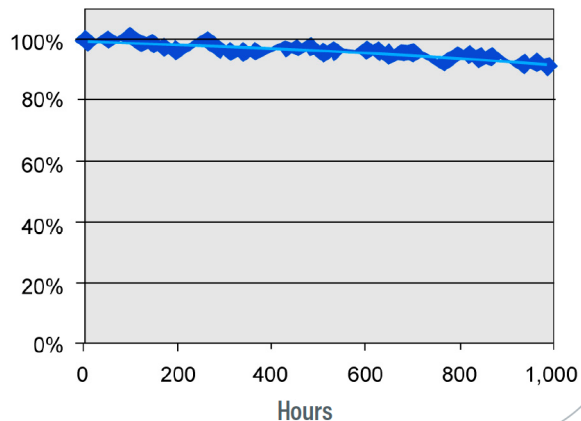
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Specifications	2000-EC Modular	5000-EC Modular
Part Number	38105	38100
Initial Intensity*	105 mW/cm ²	225 mW/cm ²
Curing Area	8" x 8" (20.3 cm x 20.3 cm)	5" x 5" (12.7 cm x 12.7 cm)
Working Distance	2" - 6"	2" - 6"
Reflector Housing Dimensions (L x W x H)	9" x 10.5" x 7.5" (22.9 cm x 26.7 cm x 19.1 cm)	6.75" x 6.75" x 8" (17.2 cm x 17.2 cm x 20.3 cm)
Power Supply Dimensions (L x W x H)	12" x 16" x 4.25" (30.5 cm x 40.6 cm x 10.8 cm)	
Bulb Warranty	2,000 hours	
Typical Degradation	< 20% over 2,000 hours	
Power Requirements	90-265V, 50-60 Hz	
Replacement Bulb Part Numbers	38560 Metal Halide (Standard, UVA, Longwave) 36970 Mercury (UVB, Shortwave) 36658 Visible	

Spectral Outputs for Dymax 400W Flood Bulbs

EC Flood Lamp Spectral Output

Flood Lamp Bulb Degradation

The intensity generated by Dymax flood systems is very consistent. With continuous use, bulb degradation of less than 20% over the first 2,000 hours is typical. On/off cycles will accelerate bulb degradation.

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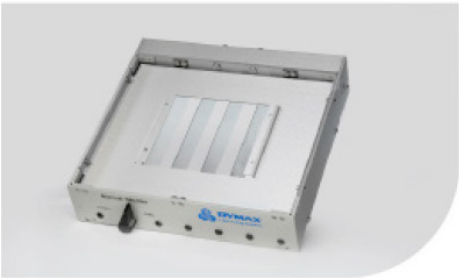
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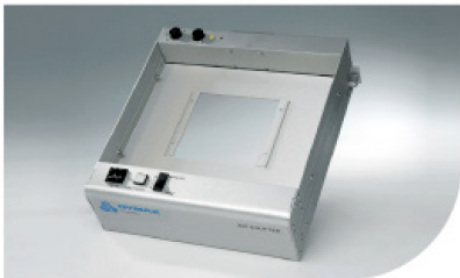
Accessories

Shutters

Dymax UV light-curing flood lamps require a five (5) minute warm up and five (5) minutes to cool down. For that reason, it is not practical to control exposure by turning lamps on/off. Shutters, however, can be used to control exposure time. Dymax offers the following shutters for use with the 2000-EC and 5000-EC UV-curing flood systems.



Manual Shutter	
Part Number	35572
Dimensions (L x W x H)	11.1" x 11.3" x 2.5" (28.2 cm x 28.7 cm x 6.4 cm)
Description	Low cost louvered shutter. Simple hand turn knob opens and closes shutter.



ZIP™ Shutter	
Part Number	37863 38071 - Replacement Curtain
Dimensions (L x W x H)	13.5" x 11.8" x 4.5" (34.3 cm x 29.9 cm x 11.4 cm)
Description	Electronic, curtain-style shutter. Actuated via finger switch, foot pedal, or customer supplied switch (or PLC).

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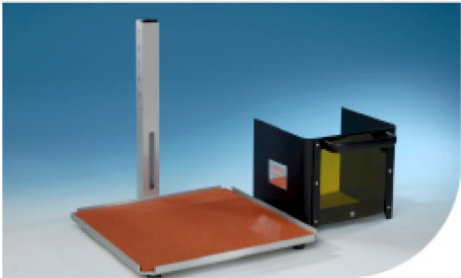
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Shielding

Dymax offers two shielding options for its UV curing flood systems, a mounting stand kit and a Light Shield.



Mounting Stand Kits	
Part Number	38289 - 5000-EC Mounting Stand Kit 38290 - 2000-EC Mounting Stand Kit
Dimensions (L x W)	5000-EC: 7.0" x 6.1" (17.8 cm x 15.5 cm) 2000-EC: 8.5" x 10.8" (21.6 cm x 27.4 cm)
Description	A simple and cost effective 3-sided shield that is removed manually. Not compatible with Dymax shutters.

Light Shield	
Part Number	41175
Inside Dimensions (L x W x H)	14.9" x 10.6" x 8.0" (37.9 cm x 26.9 cm x 20.3 cm)
Outside Dimensions (L x W x H)	16.9" x 12.6" x 10.8" (42.9 cm x 32 cm x 27.4 cm)
Description	360° shielding. Swing up door and slide out shelf. Compatible with Dymax shutters.

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Part Numbers for Various Lamp/Shutter/Shielding Combinations	2000-EC	5000-EC
Modular (no shielding or shutter)	38105	38100
With Mounting Stand	39730	39830
With Light Shield	39720	39820
With Light Shield and Manual Shutter	39723	39823
With Light Shield and ZIP™ Shutter	39721	39821



The ACCU-CAL™ 50 radiometer is simple to operate and offers repeatable measurement of UV light. The Dymax ACCU-CAL™ 50 can measure UV light emitted from lightguides (3 mm, 5 mm, and 8 mm), UV flood systems, and UV conveyors.

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Please note that most light-curing system applications are unique. Dymax does not warrant the fitness of the product for the intended application. Any warranty applicable to the product, its application and use is strictly limited to that contained in Dymax standard Conditions of Sale published on our website. Dymax recommends that any intended application be evaluated and tested by the user to ensure that desired performance criteria are satisfied.

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