

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

Not Available in Europe¹

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.



Dymax 5000-EC UV-Curing Flood Lamp Shown with ZIP™ Shutter and Light Shield enclosure.

FEATURES	
Powerful UV light-curing lamps (up to 225 mW/cm ²) ²	Two bulb options (shortwave or longwave)
Large curing area 5" x 5" or 8" x 8" (12.7 cm x 12.7 cm) or (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

¹ See Lit206EU for CE marked Dymax UV light-curing flood lamp systems for Europe.

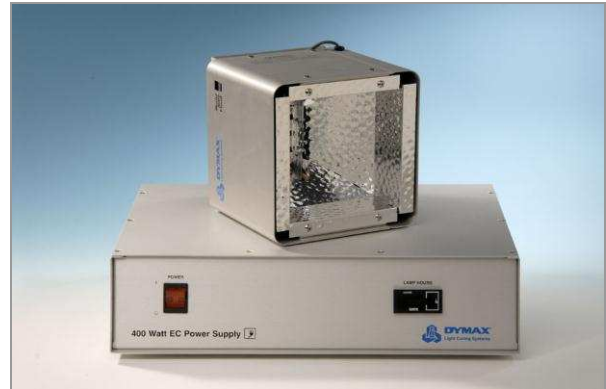
² Measured with a Dymax ACCU-CAL™ 50 Radiometer (320-395 nm) at a lamp height of 3" using a standard metal halide bulb.

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.

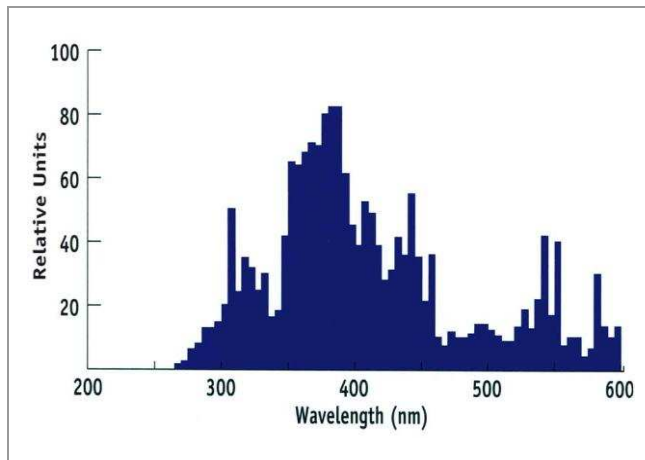


2000-EC modular power supply and housing, 8" x 8" curing area

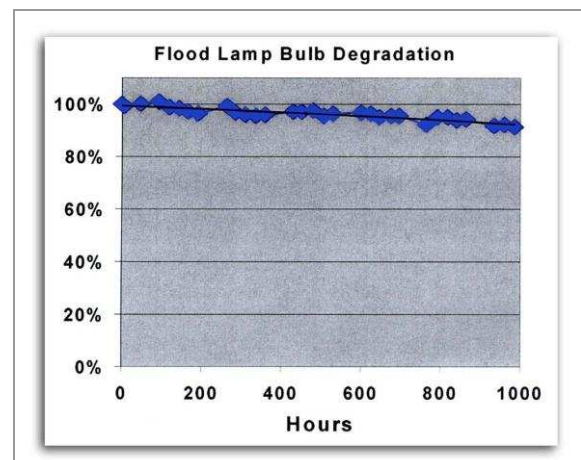


5000-EC modular power supply and housing, 5" x 5" curing area

SPECIFICATIONS	2000-EC Modular	5000-EC Modular
Part Number	38105	38100
Initial Intensity	75 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"
Dimensions (L x W x H)	Power Supply: 12" L x 16" W x 4.25" H (30.5 cm x 40.6 cm x 10.8 cm) Reflector Housing: 9" L x 10.5" W x 7.5" H (22.9 cm x 26.7 cm x 19.1 cm)	Power Supply: 12" L x 16" W x 4.25" H (30.5 cm x 40.6 cm x 10.8 cm) Reflector Housing: 6.75" L x 6.75" W x 8" H (17.2 cm x 17.2 cm x 20.3 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	



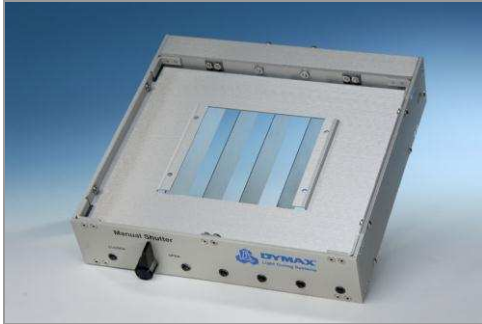
2000-EC and 5000-EC UV light-curing flood lamps spectral distribution using a standard metal halide bulb (PN **38560**)



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.

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 shown open

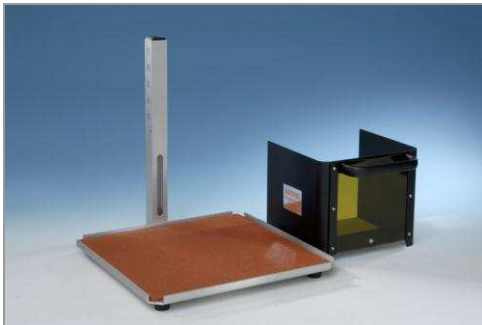


ZIP™ shutter shown open

Manual Shutter		ZIP™ Shutter	
Part Number	35572	Part Number	37863 38071 - Replacement Curtain
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)	Dimensions (L x W x H)	13.5" x 11.75" x 4.5" (34.3 cm x 29.9 cm x 11.4 cm)
Description	Low cost louvered shutter. Simple hand turn knob opens and closes shutter.	Description	Electronic, curtain-style shutter. Actuated via finger switch, foot pedal, or customer supplied switch (or PLC).

Shielding

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



Shown: 5000-EC mounting stand kit

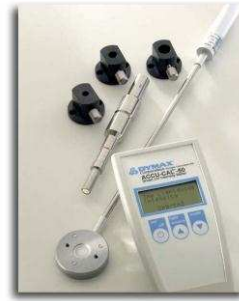


Light Shield shown open with sliding tray out

Mounting Stand Kits		Light Shield	
Part Number	38289 - 5000-EC Mounting Stand Kit 38290 - 2000-EC Mounting Stand Kit	Part Number	38125
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)	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)
Description	A simple and cost effective 3-sided shield that is removed manually. Not compatible with Dymax shutters.	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)
		Safety Interlock	PN 38402 - Optional Kit (closes shutter if door is opened mid-cycle)
		Description	360° shielding. Swing up door and slide out shelf. Compatible with Dymax shutters.

Part Numbers for Various Lamp/Shutter/Shielding Combinations

Description	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.

Dymax Equipment Literature

Type	Description	Literature Numbers	European Literature Numbers
General	Guide to Selecting and Using Dymax Light-Curing Systems	Lit010A	Lit010AEU
	Dymax UV Light-Curing Systems Safety Considerations	Lit133	Lit133
Light-Curing Spot Lamps	BlueWave® 200 UV Light-Curing Spot Lamp	Lit218	Lit218EU
	BlueWave® 75 UV Light-Curing Spot Lamp	Lit238	Lit238EU
	BlueWave® LED Prime UVA Spot-Curing Lamp	Lit267	Lit267EU
UV Light-Curing Flood Lamps	2000-EC and 5000-EC UV Light Curing Flood Lamps	Lit206	-
	UV Flood and Focused-Beam Mix & Match UV Light-Curing Modules	-	Lit206EU
UV Light-Curing Conveyor Systems	UVCS UV Light-Curing Conveyor Systems (12")	Lit051A	Lit051EU
	WIDECURE™ UV Light-Curing Conveyor System with Auto Clamp (25")	Lit050	-
	UVC-5 and UVC-8 UV Light-Curing Conveyor Systems	-	Lit051EU
UV Radiometers	ACCU-CAL™ 50 Radiometer	Lit159	Lit159EU

FREE DYMAX EQUIPMENT EVALUATION

Contact your Dymax representative to initiate rental of Dymax UV curing equipment. The highlights of the Dymax Trial Rental/Lease program are:

- Two (2) weeks free evaluation and 3% per week thereafter
- Eight (8) weeks of rental fees are deducted from the price at purchase
- 50% of additional rental fees are deducted
- Customer pays shipping both ways



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Please note that most dispensing and 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's standard Conditions of Sale. Dymax recommends that any intended application be evaluated and tested by the user to insure that desired performance criteria are satisfied. Dymax is willing to assist users in their performance testing and evaluation by offering equipment trial rental and leasing programs to assist in such testing and evaluations. Data sheets are available for valve controllers or pressure pots upon request. LIT206 1/14/2009

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