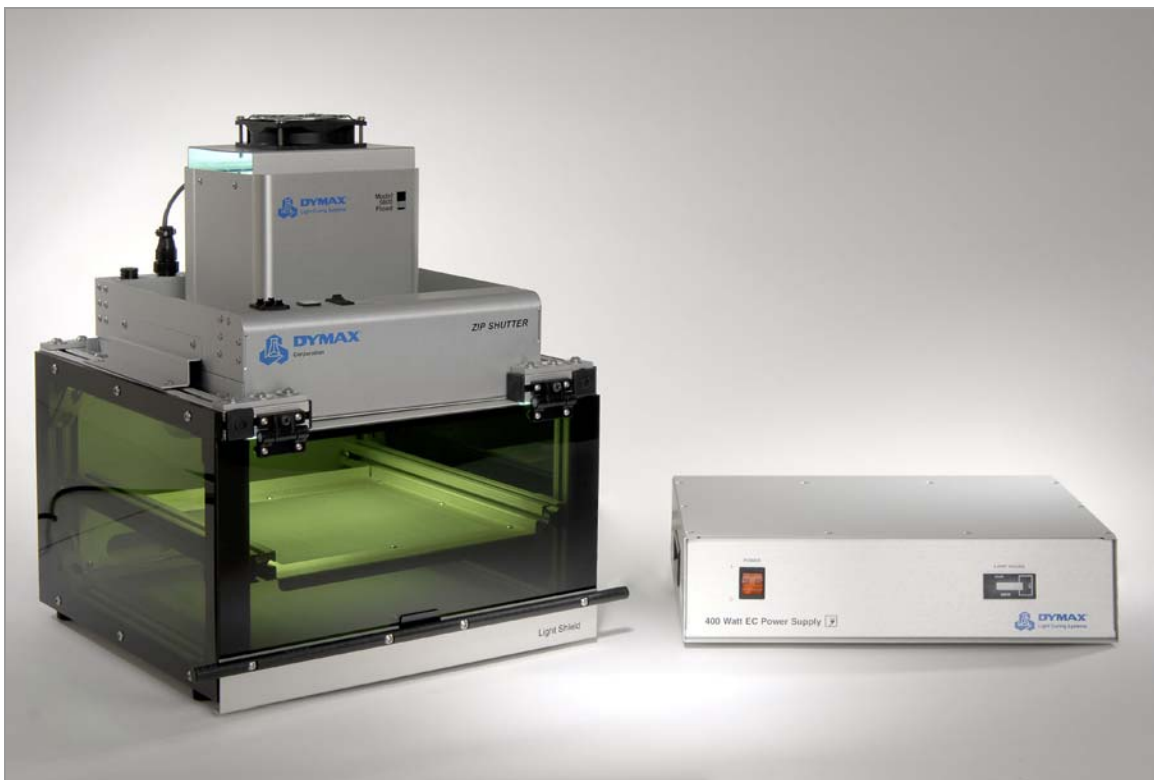


# 2000-EC and 5000-EC UV Light-Curing Flood Systems

Not Available in Europe<sup>1</sup>

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 <sup>2</sup> ) <sup>2</sup>	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

<sup>1</sup> See Lit206EU for CE marked DYMAX UV light-curing flood lamp systems for Europe.

<sup>2</sup> 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.

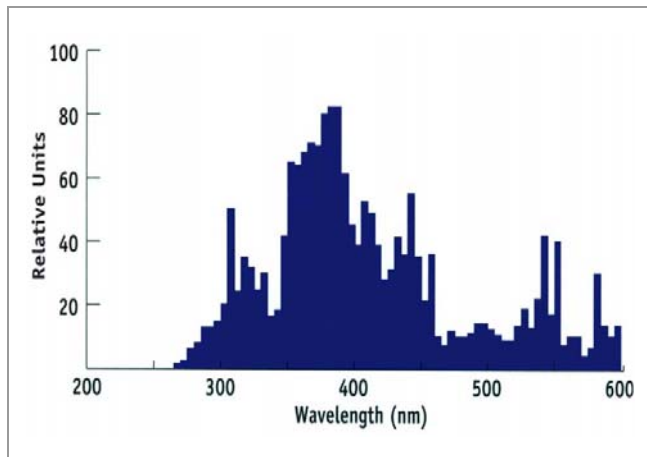


2000-EC modular power supply and housing, 8" x 8" curing area

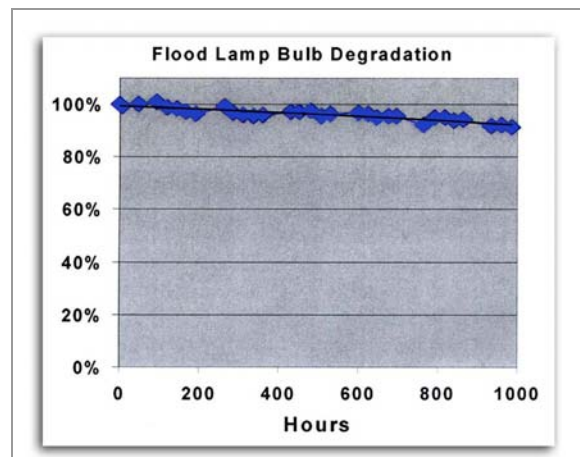


5000-EC modular power supply and housing, 5" x 5" curing area

SPECIFICATIONS	2000-EC Modular	5000-EC Modular
Part Number	<b>38105</b>	<b>38100</b>
Initial Intensity	75 mW/cm <sup>2</sup>	225 mW/cm <sup>2</sup>
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)	<u>Power Supply:</u> 12" L x 16" W x 4.25" H (30.5 cm x 40.6 cm x 10.8 cm) <u>Reflector Housing:</u> 9" L x 10.5" W x 7.5" H (22.9 cm x 26.7 cm x 19.1 cm)	<u>Power Supply:</u> 12" L x 16" W x 4.25" H (30.5 cm x 40.6 cm x 10.8 cm) <u>Reflector Housing:</u> 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	<b>38560</b> Metal Halide (Standard, UVA, Longwave), <b>36970</b> Mercury (UVB, Shortwave), <b>36658</b> 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

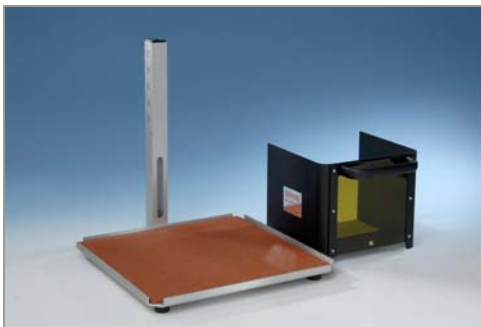


ZIP™ shutter shown open

Manual Shutter		ZIP™ Shutter	
<b>Part Number</b>	<b>35572</b>	<b>Part Number</b>	<b>37863</b> <b>38071</b> - Replacement Curtain
<b>Dimensions (L x W x H)</b>	11.1" x 11.3" x 2.5" (28.2 cm x 28.7 cm x 6.4 cm)	<b>Dimensions (L x W x H)</b>	13.5" x 11.75" x 4.5" (34.3 cm x 29.9 cm x 11.4 cm)
<b>Description</b>	Low cost louvered shutter. Simple hand turn knob opens and closes shutter.	<b>Description</b>	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	
<b>Part Number</b>	<b>38289</b> - 5000-EC Mounting Stand Kit <b>38290</b> - 2000-EC Mounting Stand Kit	<b>Part Number</b>	<b>38125</b>
<b>Dimensions (L x W)</b>	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)	<b>Inside Dimensions (L x W x H)</b>	14.9" x 10.6" x 8.0" (37.9 cm x 26.9 cm x 20.3 cm)
<b>Description</b>	A simple and cost effective 3-sided shield that is removed manually. Not compatible with DYMAX shutters.	<b>Outside Dimensions (L x W x H)</b>	16.9" x 12.6" x 10.8" (42.9 cm x 32 cm x 27.4 cm)
		<b>Safety Interlock</b>	<b>PN - 38402</b> - Optional Kit (closes shutter if door is opened mid-cycle)
		<b>Description</b>	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)	<b>38105</b>	<b>38100</b>
With Mounting Stand	<b>39730</b>	<b>39830</b>
With Light Shield	<b>39720</b>	<b>39820</b>
With Light Shield and Manual Shutter	<b>39723</b>	<b>39823</b>
With Light Shield and ZIP™ Shutter	<b>39721</b>	<b>39821</b>



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
<b>General</b>	Guide to Selecting and Using DYMAX Light-Curing Systems	Lit010A	Lit010AEU
	DYMAX UV-Curing Systems Safety Considerations	Lit133	Lit133
<b>UV Light Curing Spot Lamps</b>	BlueWave® 200 UV Light-Curing Spot Lamp	Lit218	Lit218EU
	BlueWave® 50 UV Light-Curing Spot Lamp	-	Lit226EU
<b>UV Light Curing Flood Lamps</b>	2000-EC and 5000-EC UV Light Curing Flood Lamps	Lit206	-
	UV Flood and Focused-Beam Mix & Match UV Light-Curing Modules	-	Lit206EU
<b>UV Light Curing Conveyor Systems</b>	UVCS UV Light-Curing Conveyor Systems (12")	Lit051A	Lit051EU
	WIDECURE™ UV Light-Curing Conveyor Systems (18" and 25")	Lit088	-
	WIDECURE™ UV Light-Curing Conveyor System with Auto Clamp (25")	Lit050	-
	UVC-5 and UVC-8 UV Light-Curing Conveyor Systems	-	Lit051EU
<b>UV Radiometers</b>	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

For further assistance with adhesive and equipment selection, contact your DYMAX Technical Service Representative.



In the U.S. Call: 1.877.396.2988

In North and South America Call: 860.482.1010

In Europe Call: 0049.69.7165.3568

In Asia Call: 852.2460.7038

In Korea Call: 82-2-784-3434

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