



Manufacturer:
Dymax

Product Name:
Dymax Manual Shutter for 2000-EC & 5000-EC UV Curing Flood Lamps

Manufacturer Part Number:
35572

▶ [Click here for more details on the Dymax Manual Shutter for 2000-EC & 5000-EC UV Curing Flood Lamps](#)

Click the thumbnail below to navigate to the datasheet.

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

- Powerful UV light-curing lamps with 300-380nm
- Low heat operation allows for easy use
- Large curing area - 17" (430) x 10" (254) or 14" (355) x 10" (254)
- Adjustable lamp height
- Digital timer with 60 seconds
- Built-in emergency stop button
- Stable feet for use on uneven surfaces
- UV-C blocking with safety interlock outside

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

The 2000-EC and 5000-EC UV light-curing flood lamps offer maximum UV light intensity over a large area up to 17" x 10". By adding the Dymax manual shutter, these lamps are available as an integral shutter and allowing precise control for sensitive UV curing applications. These flood lamps are easily integrated into automated assembly systems. These flood lamps give the industry's most consistent energy over the large lamp beam area.

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2000-EC manual shutter and flooding UV lamp

5000-EC manual shutter and flooding UV lamp

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EC

ECE-Series UV Light-Curing Flood Systems

Powerful UV light-curing lamps with 300-380nm
- Low heat operation allows for easy use
- Large curing area - 17" (430) x 10" (254) or 14" (355) x 10" (254)
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ECE-Series UV Light-Curing Flood Lamps

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ECE-Series manual shutter and flooding UV lamp

5000-EC manual shutter and flooding UV lamp

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ECE

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

- 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

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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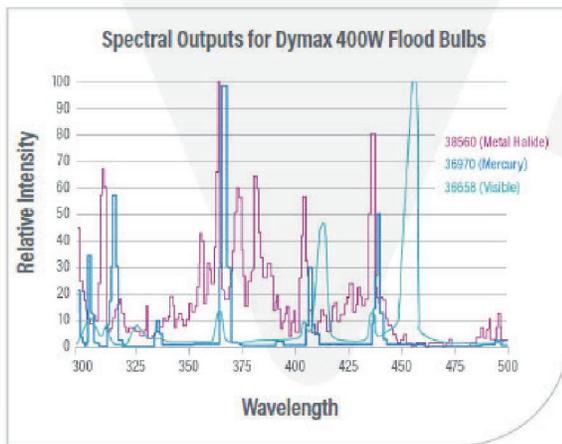
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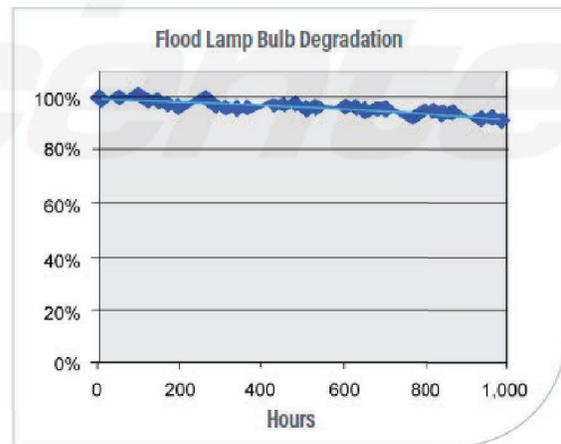
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Specifications	2000-EC Modular	5000-EC Modular
Part Number	38105	38100
Initial Intensity*	105 mW/cm ²	225 mW/cm ²
Curing Area	8" x 8" (20.3 cm x 20.3 cm)	5" x 5" (12.7 cm x 12.7 cm)
Working Distance	2" - 6"	2" - 6"
Reflector Housing Dimensions (L x 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	<ul style="list-style-type: none"> 38560 Metal Halide (Standard, UVA, Longwave) 36970 Mercury (UVB, Shortwave) 36658 Visible 	



EC Flood Lamp Spectral Output



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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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 U V-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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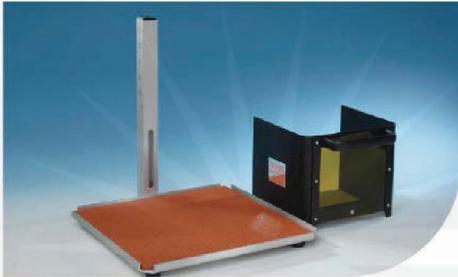
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Shielding

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)
Safety Interlock	41166 - Optional Kit (closes shutter if door is opened mid-cycle)
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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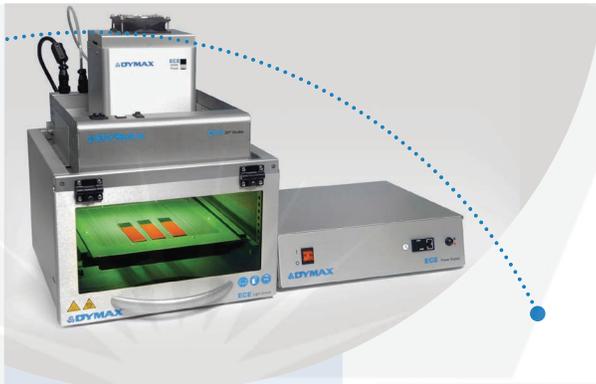


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ECE-Series UV Light-Curing Flood Systems

- Powerful UV light-curing lamps (up to 225 mW/cm²)*
- Standard systems contain a metal halide bulb (longwave) but two additional bulb options (shortwave and visible) are available for order
- Two flood lamp options available: 5" x 5" (12.7 cm x 12.7 cm) and 8" x 8" (20.3 cm x 20.3 cm)
- 100% shielding with safety interlock
- Easy-to-adjust tray height
- Shutter that can be actuated by foot pedal or PLC
- Bulbs are warranted for 2,000 hours**
- Lamp turn-off when the Light Shield door is open
- Containment of non-passive lamp failure
- Reduced light leakage with the new ECE Light Shield design
- Redesigned mounting plate for the ZIP Shutter reduces light leakage

* Measured with a Dymax ACCU-CAL™ 50 Radiometer (320-395 nm) at a lamp height of 3" (76.2 cm) using a standard metal halide bulb.

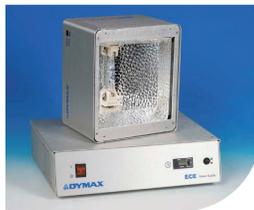
** Warranty covers bulb ignition only. Intensity is not warranted.



Dymax light-curing flood lamps offer moderate- to high-intensity curing over a 5" x 5" (12.7 cm x 12.7 cm) or 8" x 8" (20.3 cm x 20.3 cm) area. Curing in 5-30 seconds is typical using Dymax light-curable materials. These lamps are simple to operate and are available with or without shutters. Dymax UV flood lamps can be used as bench-top curing systems or integrated into automated assembly systems. They offer the industry's most consistent intensity over the 2,000 hour bulb warranty.

ECE-Series UV Light-Curing Flood Lamps

Dymax offers two flood-lamp options, the ECE 2000 and 5000, for rapid curing of UV adhesives, coatings, and inks. These UV flood lamps offer moderate to high intensity over an area up to 8" x 8" (20.3 cm x 20.3 cm). 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 unit model can be configured with bulb options to deliver enhanced short-wavelength (UVB), Long wave (UVA), or Optimized Visible (V) energy emissions.



ECE 2000 modular power supply and housing



ECE 5000 modular power supply and housing

PRODUCT BULLETIN | ECE FLOOD LAMPS

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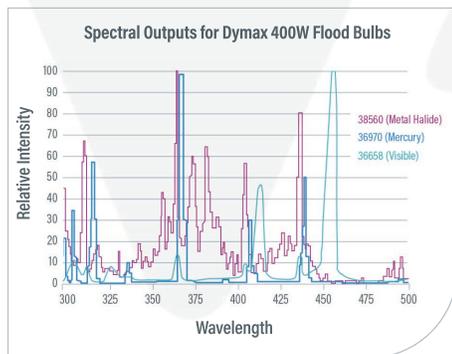
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Specifications

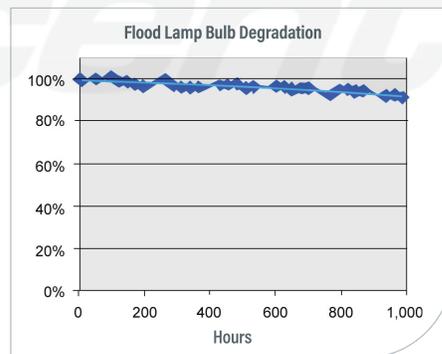
Specifications	ECE 2000 Modular	ECE 5000 Modular
Part Number	40965 No Power Cord* 40995 Asian Version (Type G Power Cord) 40985 North American Version (Cord with 120V Plug)	40915 No Power Cord* 40935 Asian Version (Type G Power Cord) 40925 North American Version (Cord with 120V Plug)
Typical Initial Output Intensity at UVA (365 nm)**	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" (5.08 cm - 15.24 cm)	2" - 6" (5.08 cm - 15.24 cm)
Reflector Housing Dimensions	9" L x 10.5" W x 7.5" H (22.9 cm x 26.7 cm x 19.1 cm)	6.75" L x 6.75" W x 8" H (17.2 cm x 17.2 cm x 20.3 cm)
Power Supply Dimensions	12" L x 16" W x 4.25" H (30.5 cm x 40.6 cm x 10.8 cm)	
Bulb Warranty	2,000 hours (no intensity warranty, only bulb ignition)	
Typical Degradation	< 20% over 2,000 hours	
Power Requirements	100 - 240 VAC +/-10% Single Phase 47 - 63 Hz	
Replacement Bulb Part Numbers	38560 Metal Halide (Standard, UVA, Longwave) 36970 Mercury (UVB, Shortwave) 36658 Visible	

* For customer in Europe, the appropriate power cord will be added

** Intensity readings vary widely depending on the make and model of the radiometer. These intensities were measured with the ACCU-CAL™ 50 radiometer.



ECE 2000 & 5000 UV light-curing flood lamps spectral distribution using a standard metal halide bulb **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. Power on/off cycle's temperature, humidity, and operating environment all have an effect on intensity degradation and will affect bulb life.

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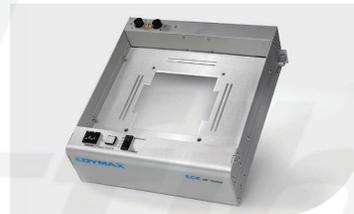
Accessories

Shutters

Dymax UV light-curing flood lamps require warm-up and cool-down time. For that reason, it is not possible to control exposure by turning lamp power on/off. Shutters, however, can be used to control exposure time. Dymax offers the following shutters for use with the ECE 2000 and 5000 flood-lamp curing systems.



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



ECE ZIP™ Shutter	
Part Number	40885 - ECE ZIP™ Shutter 41097 - SS Curtain Replacement Kit
Dimensions (W x D x H)	12.5" x 12.9" x 3.8" (31.8 cm x 32.8 cm x 9.7 cm)
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.



Mounting Stand Kits	
Part Number	38289 - ECE 5000 Mounting Stand Kit 38290 - ECE 2000 Mounting Stand Kit
Dimensions (L x W)	ECE 5000: 70" x 6.1" (178 cm x 15.5 cm) ECE 2000: 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.



ECE Light Shield	
Part Number	40785
Inside Dimensions (W x D x H)	13.2" x 12.5" x 8.3" (35.53 cm x 31.75 cm x 21.08 cm)
Outside Dimensions (W x D x H)	15.1" x 18.2" x 10.6" (38.42 cm x 46.25 cm x 26.83 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	ECE 2000			ECE 5000		
	No Power Cord	Asian Version, Type G Power Cord	North American, Power Cord with 120V Plug	No Power Cord	Asian Version, Type G Power Cord	North American, Power Cord with 120V Plug
Modular (no shielding or shutter)	40965	40995	40985	40915	40935	40925
With Mounting Stand	40920	41180	41170	40970	41140	41130
With ECE Light Shield	40870	41200	41190	40900	41160	41150
With ECE Light Shield and Manual Shutter	40790	40860	40810	40850	41100	40940
With ECE Light Shield and ECE ZIP™ Shutter	40830	41060	41040	40840	41050	41030



41590 ACCU-CAL™ 160 Radiometer

The ACCU-CAL™ 160 radiometer is simple to operate and offers repeatable measurement of curing energy. The Dymax ACCU-CAL™ 160 can measure UV light emitted from UV flood system, and UV conveyors.



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