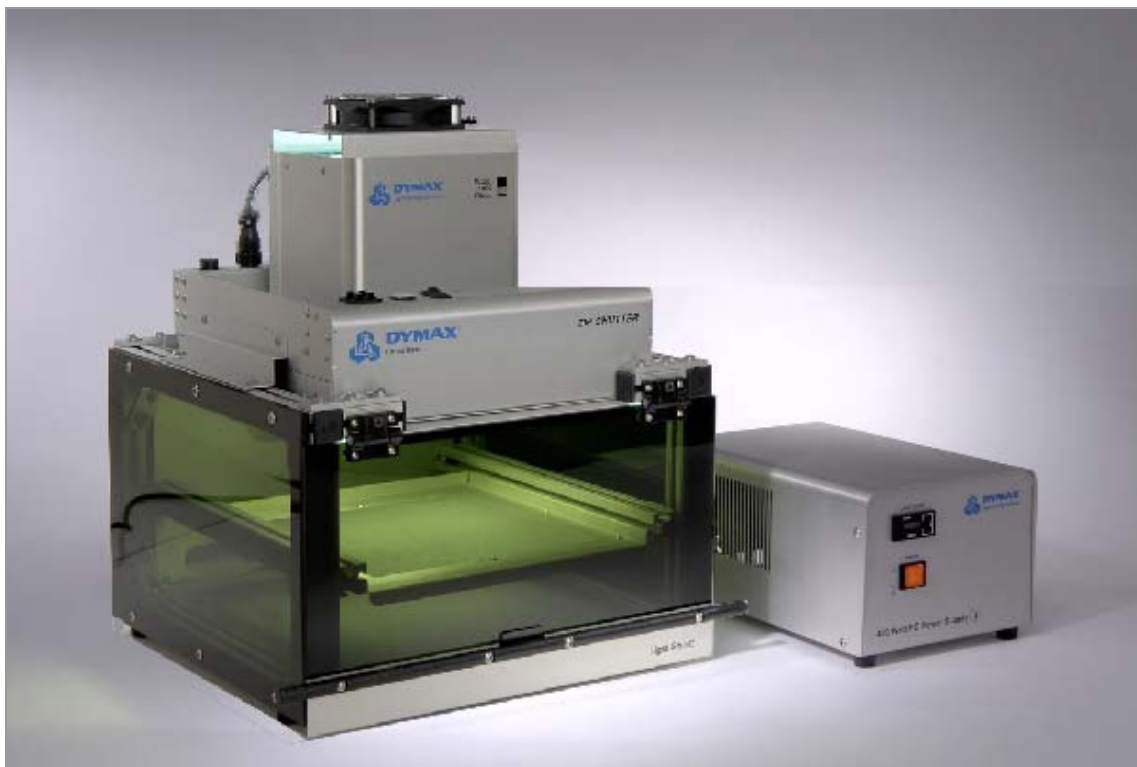


2000-PC and 5000-PC UV Light-Curing Flood Systems

DYMAX UV light-curing flood lamps offer moderate to high intensity UV curing over a 127 x 127 mm or 200 x 200 mm 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 benchtop 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-PC UV Light-Curing Flood Lamp Shown with ZIP™ Shutter and Light Shield enclosure

| FEATURES | |
|---|--|
| Powerful UV-curing lamps (up to 225 mW/cm ²) ¹ | Two bulb options (shortwave or longwave) |
| Large curing area (127 x 127 mm or 200 x 200 mm) | 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 Measured with a DYMAX ACCU-CAL™ 50 Radiometer (320-395 nm) at a lamp height of 76 mm using a standard metal halide bulb.

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

The 2000-PC and 5000-PC modular UV light-curing flood lamps offer moderate-to-high intensity over a large area (up to 200 x 200 mm). By adding shielding and/or shutters, these UV light-curing flood lamps can be used as either turnkey benchtop 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.

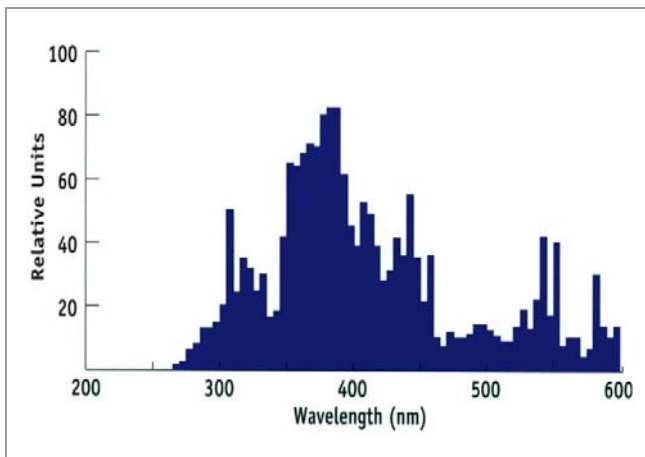


2000-PC modular power supply and housing, 200 x 200 mm curing area

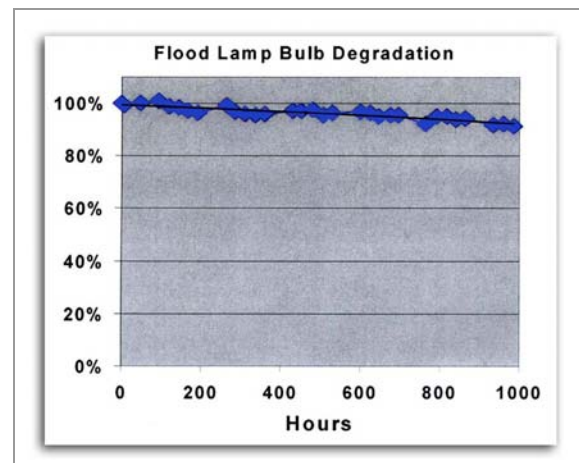


5000-PC modular power supply and housing, 127 x 127 mm curing area

| SPECIFICATIONS | 2000-PC Modular | 5000-PC Modular |
|-------------------------------|--|---|
| Part Number | 38003 | 38005 |
| Initial Intensity | 75 mW/cm ² | 225 mW/cm ² |
| Curing Area | 200 x 200 mm | 127 x 127 mm |
| Working Distance | 50 – 150 mm | 50 – 150 mm |
| Dimensions (L x W x H) | <u>Power Supply:</u> 203 mm x 318 mm x 165 mm <u>Reflector Housing:</u> 267 mm x 229 mm x 178 mm | <u>Power Supply:</u> 203 mm x 318 mm x 165 mm <u>Reflector Housing:</u> 165 mm x 152 mm x 152 mm |
| 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 | |



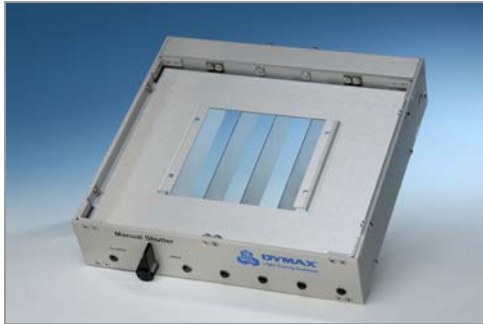
2000-PC and 5000-PC UV light-curing flood lamps spectral distribution using a standard metal-halide bulb (PN **38560**)



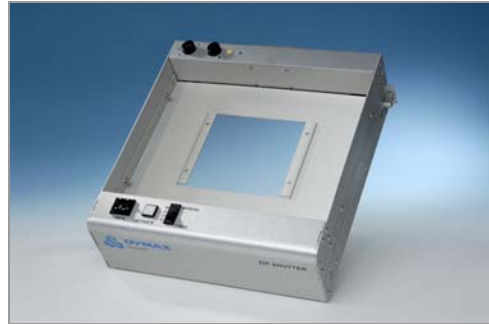
The intensity generated by DYMAX flood systems is very consistent. With continuous use, bulb degradation of less than 20% over the first 1,000 hours is typical. On/off cycles will accelerate bulb degradation.

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-PC and 5000-PC UV light-curing flood systems.



Manual shutter shown open

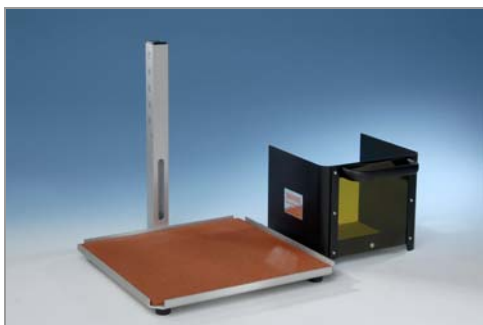


ZIP™ shutter shown open

| Manual Shutter | | ZIP™ Shutter | |
|-------------------------------|--|-------------------------------|--|
| Part Number | 35572 | Part Number | 37863 38071 - Replacement Curtain |
| Dimensions (L x W x H) | 282 mm x 287 mm x 64 mm | Dimensions (L x W x H) | 343 mm x 299 mm x 114 mm |
| 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 light-curing flood systems, a mounting stand kit, and a Light Shield.



Shown: 5000-PC mounting stand kit



Light Shield shown open with sliding tray out

| Mounting Stand Kits | | Light Shield | |
|---------------------------|--|---------------------------------------|--|
| Part Number | 38289 - 5000-PC Mounting Stand Kit 38290 - 2000-PC Mounting Stand Kit | Part Number | 38125 |
| Dimensions (L x W) | 5000-PC: 178 mm x 155 mm 2000-PC: 216 mm x 274 mm | Inside Dimensions (L x W x H) | 379 mm x 269 mm x 203 mm |
| 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) | 429 mm x 320 mm x 274 mm |
| | | Safety Interlock | 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-PC | 5000-PC |
| Modular (no shielding or shutter) | 38003 | 38005 |
| With Mounting Stand | 38003 + 38290 | 38005 + 38289 |
| With Light Shield | 38003 + 38125 | 38005 + 38125 |
| With Light Shield and Manual Shutter | 38003 + 38125 + 35572 | 38005 + 38125 + 35572 |
| With Light Shield and ZIP™ Shutter | 38003 + 38125 + 37863 | 38005 + 38125 + 37863 |



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 | European Literature Numbers |
| General | <i>Guide to Selecting and Using DYMAX Light-Curing Systems</i> | Lit010AEU |
| | <i>DYMAX UV Light-Curing Systems Safety Considerations</i> | Lit133 |
| Light-Curing Spot Lamps | <i>BlueWave® 200 UV Light-Curing Spot Lamp</i> | Lit218EU |
| | <i>BlueWave® 75 UV Light-Curing Spot Lamp</i> | Lit238EU |
| | <i>BlueWave® LED Prime UVA Light-Curing Spot Lamp</i> | Lit268EU |
| UV Light Curing Flood Lamps | <i>2000-PC and 5000-PC UV Light-Curing Flood Lamps</i> | Lit206EU |
| UV Light Curing Conveyor Systems | <i>UVC-5 and UVC-8 UV Light-Curing Conveyor Systems</i> | Lit051EU |
| UV Radiometers | <i>ACCU-CAL™ 50 Radiometer</i> | Lit159EU |

DYMAX EQUIPMENT EVALUATION

Contact your DYMAX representative to initiate the rental program of DYMAX UV light-curing equipment.

For further assistance with adhesive and equipment selection, contact DYMAX Applications Engineering.



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