Dymax ECE Series UV Curing Flood Lamps

Description

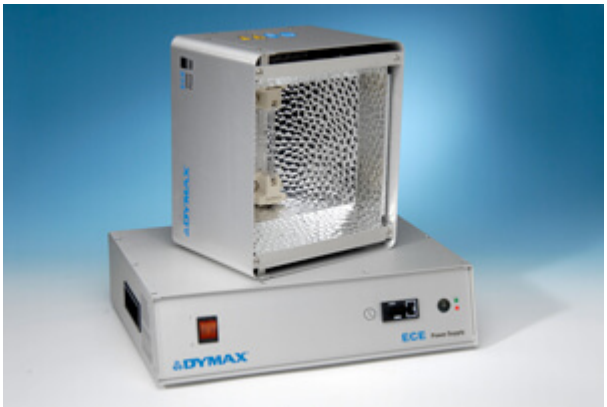
Dymax UV Curing Flood Lamps offer moderate- to high-intensity curing over a 12.7cm x 12.7cm (5" x 5") or 20.3 cm x 20.3 cm (8" x 8") area. Curing in 5-30 seconds is typical using **Dymax light-curable materials**. These lamps are simple to operate and are available with or without shutters.

Dymax UV Curing 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.

Dymax ECE 2000 UV curing flood lamps

The ECE 2000 UV curing flood lamp is a general purpose, lower intensity flood lamp that offers the largest curing area of the series (20.3 cm x 20.3 cm / 8" x 8"). It is an excellent choice for curing trays of small parts or large bond areas economically.

Dymax ECE Series UV Curing Flood Lamps

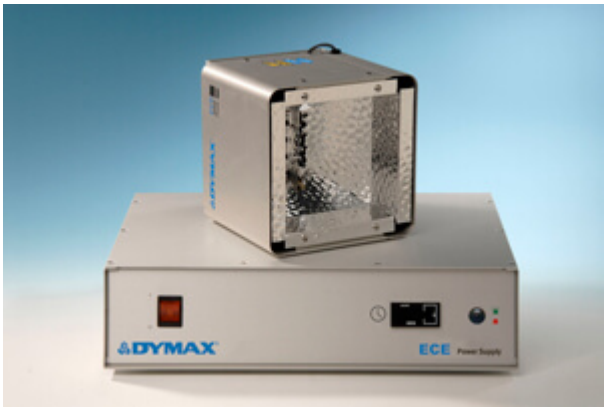


Dymax ECE 2000 UV curing flood lamp

Dymax ECE 5000 UV curing flood lamps

The ECE 5000 UV curing flood lamp is a concentrated, higher intensity flood lamp for fast curing of UV adhesives, coatings, sealants and encapsulants. It is our most popular and versatile broad spectrum UV curing flood lamp, with a curing area of 12.7cm x 12.7cm (5" x 5").

Dymax ECE Series UV Curing Flood Lamps



Dymax ECE 5000 UV curing flood lamp

All systems feature auto-switching power supply, 50-60 Hz, 90-260 volts, fan-cooled, anodised aluminium housing and irradiator shield kit.

Features & Benefits

- Bulb warranty of 2,000 hours
- Typical UV cures of 5-30 seconds (material dependent)
- Two flood lamp options available: 12.7 cm x 12.7 cm (5" x 5") and 20.3 cm x 20.3 cm (8" x 8") curing area
- Shutter can be actuated manually, by foot pedal or PLC
- Lamp turn-off when the Light Shield door is open
- Reduced light leakage with the ECE Light Shield
- Standard systems contain a metal halide bulb (longwave), with two additional bulb options

Dymax ECE Series UV Curing Flood Lamps

(shortwave and visible) are available to order

- 100% shielding with safety interlock
- Easy-to-adjust tray height

Specifications

Both the ECE 2000 and ECE 5000 systems are suitable for rapid curing of UV adhesives, coatings, and inks. 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.

The curing flood lamps consist of a power supply, reflector housing and 400 Watt metal halide UV curing bulb. Accessories can be ordered with or retrofitted to the UV curing lamp after purchase, including shutter assemblies, UV shields and UV flood lamp stands.

Lamps	**ECE 2000 Modular** Flood	**ECE 5000 Modular** High intensity flood
Output power	400 Watt	400 Watt
Working distance	5.00 cm – 15.00 cm	5.00 cm – 15.00 cm

Dymax ECE Series UV Curing Flood Lamps

Light	Filtered UVA flood	Unfiltered full spectrum UV flood
Typical intensity in the UVA range (365 nm)	105 mW/cm² measured 75mm from the bottom edge of the reflector housing	225 mW/cm² measured 75mm from the bottom edge of the reflector housing
Curing area	20.3 x 20.3 cm	12.7 x 12.7 cm
Maximum part size (D x W x H)	25.4 x 25.4 x 19.05cm	25.4 x 25.4 x 19.05cm
Reflector housing dimensions (D x W x H)	23 x 27 x 19 cm	17 x 17 x 20 cm
Bulb warranty	2000 hours	2000 hours

Shielding for UV Curing Flood Systems

Dymax ECE Series UV Curing Flood Lamps

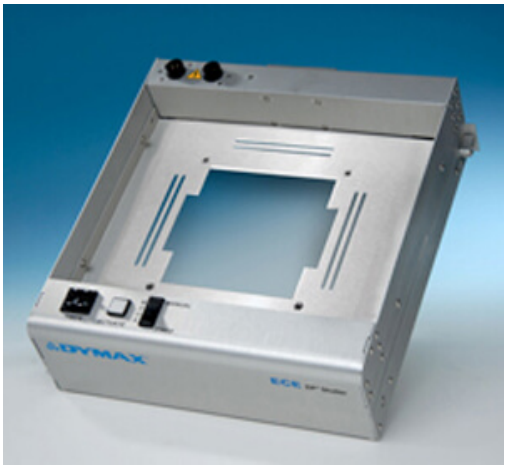
DYMAX offers two shielding options for its UV-curing flood systems, a mounting stand kit and a Light Shield.	
Light Shield A complete enclosure offering 360° of shielding with removable shelf and easy open door.	
Mounting stand kit A lower cost option. It offers 270° of shielding and includes: pedestal, small work surface, mounting hardware, small shield, cooling fan and goggles (not for use with shutters).	

Dymax ECE Series UV Curing Flood Lamps

Shutters for UV Curing Flood Systems

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 the lamp power on/off. Shutter, 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.

Zip shutter
Electronically driven shutter which retracts with a timer or manual mode



Dymax ECE Series UV Curing Flood Lamps

Manual shutter
Lowest cost shutter with two-direction hand-turn knob. No timer.

Conveyors, Integration & Automation

We offer conveyorised UV curing lamp systems, and can offer other types of integration and automation.

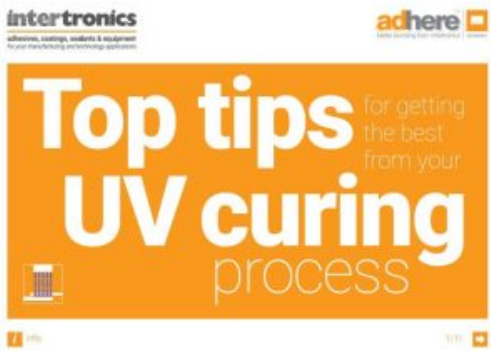
Other Accessories

We have a comprehensive range of essential accessories and spares for your UV lamps, including:

Dymax ECE Series UV Curing Flood Lamps

- Radiometers
- Bulbs
- Stands, holders and shutters
- Safety eyewear

Other Information



Top Tips for getting the best from your UV curing process

Read through our easy-to-follow guide on UV curing to maximise your processes productivity.

Dymax ECE Series UV Curing Flood Lamps

Find out more about the technology behind the **ECE Series** by reading our technical bulletins and white papers**:**

- **UV Curing and Tack-Free Cures**
- **Achieving Better Process Controls with Light Cure Technology**

See how the **Dymax ECE 2000** works as part of a real application in this UV curing adhesive and equipment Case Study:

	Dymax Multi-Cure 621-T makes emergency services equipment more rugged Using UV adhesive and curing technology to ensure a strong bond between dissimilar substrates on a product that will need to withstand rough conditions.

Dymax ECE Series UV Curing Flood Lamps

Ordering Information

Part number	Description
DYM40830	Dymax ECE 2000 – complete system incl: 2000-ECE Flood Lamp, ZIP Shutter & Light Shield
DYM40840	Dymax ECE 5000 – complete system incl: 5000-ECE Flood Lamp, ZIP Shutter & Light Shield
DYM40965	Dymax ECE 2000 UV curing flood lamp
DYM40915	Dymax ECE 5000 UV curing flood lamp
Accessories	
DYM40785	Light Shield – ECE series
DYM40885	ZIP Shutter – ECE series
DYM41097	ZIP Shutter – ECE series

Dymax ECE Series UV Curing Flood Lamps

Part number	Description
DYM35572	Manual Shutter – ECE series
DYM38289	Mounting Stand – 5000-ECE incl: pedestal, small work surface, mounting hardware, small shield, cooling fan and goggles (not for use with shutters)
DYM38290	Mounting Stand – 2000-ECE incl: pedestal, small work surface, mounting hardware, small shield, cooling fan and goggles (not for use with shutters)

Let’s start by talking about your application

Dymax ECE Series UV Curing Flood Lamps

01865 842842	orders@intertronics.co.uk

- Name*
- Company*
- Phone*
- Email*
- Post code*

If you're in the UK, knowing your postcode would help us get in touch even more quickly. If you're outside the UK, please indicate your country.

- Tell us about your application

Dymax ECE Series UV Curing Flood Lamps

Any information that you submit using this form will be processed according to our privacy policy.

Comments

This field is for validation purposes and should be left unchanged.

Submit

Supplied by:

INTERTRONICS
12a Station Field Industrial Estate, Banbury Road, Kidlington
Oxfordshire England OX5 1JD
t 01865 842842 e info@intertronics.co.uk

Last updated: November 2022 Version: 6.2

Statements, technical information and recommendations contained herein are based on tests we believe to be reliable but they are not to be construed in any manner as warrantees expressed or implied. The user shall determine the suitability of the product for his intended use and the user assumes all risk and liability whatsoever in connection therewith.