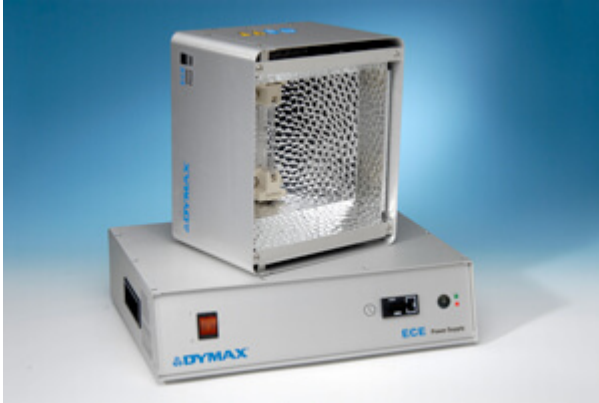# DYMAX ECE Series UV Curing Flood Lamps

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

Widest area general purpose, lower intensity flood lamp. Curing area of 20.3 cm x 20.3 cm (8⬜ x 8⬜), the largest curing area of the series. Excellent for curing trays of small parts or large bond areas economically.
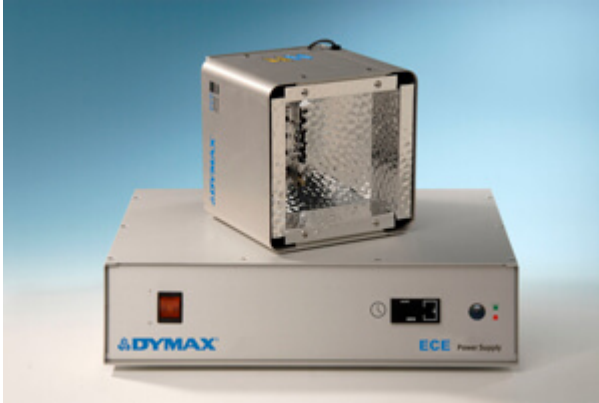
DYMAX ECE Series UV Curing Flood Lamps

Dymax ECE 2000 UV curing flood lamp

Dymax ECE 5000 UV curing flood lamps

A concentrated, higher intensity flood lamp for fast curing of UV adhesives, coatings, sealants and encapsulants. The most popular and versatile 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, anodized aluminium housing and irradiator shield kit.

Features & Benefits

- Longer bulb warranty – 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

DYMAX ECE Series UV Curing Flood Lamps

■ Reduced light leakage with the new ECE Light Shield design

■ Standard systems contain a metal halide bulb (longwave) but two additional bulb options (shortwave and visible) are available to order

■ 100% shielding with safety interlock

■ Easy-to-adjust tray height

Lamp Options

DYMAX offers two flood-lamp options, the ECE 2000 and ECE 5000, for rapid curing of UV adhesives, coatings, and inks. These UV flood lamps offer moderate to high intensity over an area up to 20.3 cm x 20.3 cm (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 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.

Lamp types

DYMAX ECE Series UV Curing Flood Lamps

Lamp types

	ECE 2000 Modular Flood	ECE 5000 Modular High intensity flood
Output power	400 Watt	
Working distance	5.00 cm – 15.00 cm	
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	
Reflector housing dimensions (D x W x H)	23 x 27 x 19 cm	17 x 17 x 20 cm
Bulb warranty	2000 hours	

DYMAX ECE Series UV Curing Flood Lamps

Shielding

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	

DYMAX ECE Series UV Curing Flood Lamps

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).
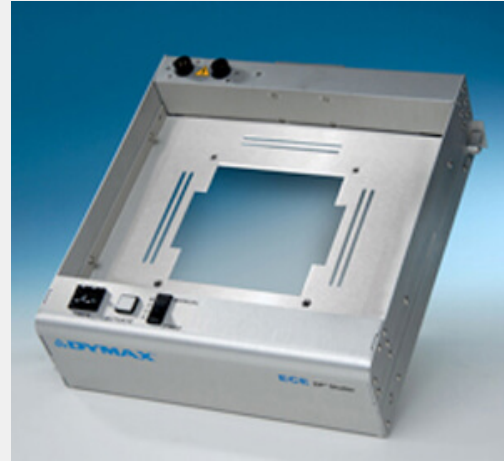
Shutters

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 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	

DYMAX ECE Series UV Curing Flood Lamps

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

DYMAX ECE Series UV Curing Flood Lamps

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

Conveyors, integration & automation
INTERTRONICS offers conveyorised UV curing lamp systems, and can offer other types of integration and automation.

DYMAX ECE Series UV Curing Flood Lamps

Other accessories

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

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

Other Information

DYMAX ECE Series UV Curing Flood Lamps

Download the Dymax Light Curing Equipment Selector Guide

DYMAX ECE Series UV Curing Flood Lamps

![DYMAX logo]

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.

Ordering Information

Part number	Description

DYMAX ECE Series UV Curing Flood Lamps

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	Lightshield – ECE series
DYM40885	ZIP Shutter – ECE series
DYM41097	ZIP Shutter – ECE series
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)

DYMAX ECE Series UV Curing Flood Lamps

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