



NEW

# L1344™

4-Head UV LED Spot Curing System

Four cure points. One controller.

**4**

independent heads

**11,000**

mW/cm<sup>2</sup> peak

**365–470**

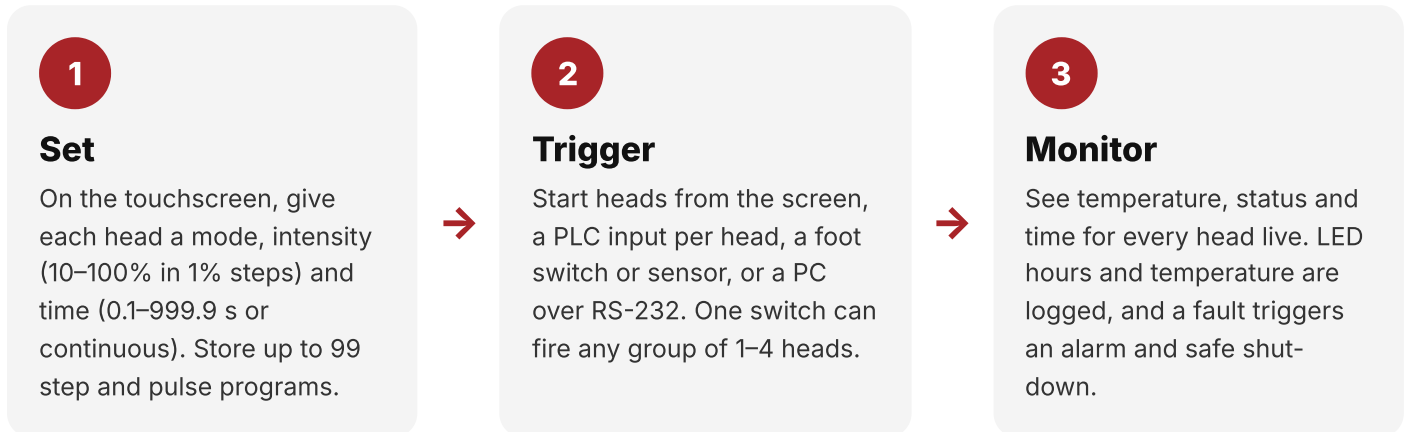
nm wavelengths

**20,000 h+**

LED life

# Cure four points at once — each one exactly right.

Every L1344™ head runs its own program. One part can get a fast tack cure while the next gets a long, deep cure — all from a single controller with the power supply built in.



## STABLE, REPEATABLE OUTPUT

- Constant-output mode**  
 Below 80% power, irradiance is held constant and is not affected by temperature.
- Full power on demand**  
 At 100%, instantaneous output reaches the maximum of up to 11,000 mW/cm<sup>2</sup>.
- Instant on, instant off**  
 No warm-up or cool-down. Switch as often as the process needs.
- Key lock**  
 Stops operators changing settings or stopping a cure by mistake.

## BUILT FOR AUTOMATION

- 4 PLC inputs**  
 Start any head or group of heads
- Status outputs**  
 Start, stop, working and alarm per head
- RS-232**  
 Set parameters, send programs, update firmware
- Foot switch / sensor**  
 One input controls 1 to 4 heads

## WHERE IT WORKS

|                                                       |                                                        |                                                                 |
|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|
| <b>Electronics</b><br>Components, sensors, connectors | <b>Optics</b><br>Lenses, fibres, alignment             | <b>Medical devices</b><br>Catheters, needles, sensors           |
| <b>Automated lines</b><br>Inline and robotic cells    | <b>Adhesives, inks, coatings</b><br>Fast, deep UV cure | <b>Clean rooms &amp; labs</b><br>All-aluminium enclosed housing |

# Choose your spot

Smaller spots concentrate more power. Pick the lens that matches your bond line and working distance.  
Optical power at 365 nm, 100% output:

|                    |                   |  |                  |
|--------------------|-------------------|--|------------------|
| <b>L2688-L03</b>   | 3 mm @ 8 mm       |  | <b>11 W/cm²</b>  |
| <b>L2688-L04</b>   | 4 mm @ 7 mm       |  | <b>10 W/cm²</b>  |
| <b>L2688-L05</b>   | 5 mm @ 10 mm      |  | <b>6.5 W/cm²</b> |
| <b>L2688-L06</b>   | 6 mm @ 12 mm      |  | <b>5.5 W/cm²</b> |
| <b>L2688-L08</b>   | 8 mm @ 19 mm      |  | <b>3.5 W/cm²</b> |
| <b>L2688-L10</b>   | 10 mm @ 25 mm     |  | <b>2.2 W/cm²</b> |
| <b>L2688-L12</b>   | 12 mm @ 22 mm     |  | <b>1.8 W/cm²</b> |
| <b>L2688-L15</b>   | 15 mm @ 39 mm     |  | <b>0.2 W/cm²</b> |
| <b>L2688-L08SV</b> | 8 mm side @ 10 mm |  | <b>0.9 W/cm²</b> |

Custom lenses and fibre optics available on request. Full lens list in the L1344™ datasheet.

## LIGHT HEADS



### Compact Head

Small diameter for tight fixtures and easy mounting. The standard choice for timed exposures.



### Fan-Cooled Head

Built-in micro cooling fan for sustained output. For long or continuous exposure.

Quartz LEDs · aviation-grade heat sinks · quartz optics · cable 3 / 5 / 10 m, rated >1,000,000 bends at R30 mm

## KEY SPECIFICATIONS

|              |                                 |                |                            |
|--------------|---------------------------------|----------------|----------------------------|
| LED heads    | <b>4, independent</b>           | Peak intensity | <b>up to 11,000 mW/cm²</b> |
| Wavelengths  | <b>365–470 nm (±10 nm)</b>      | Intensity      | <b>10–100%, 1% steps</b>   |
| Timer        | <b>0.1–999.9 s / continuous</b> | Programs       | <b>up to 99</b>            |
| LED life     | <b>&gt;20,000 h</b>             | Interfaces     | <b>PLC I/O · RS-232</b>    |
| Power supply | <b>Built in</b>                 | Housing        | <b>All-aluminium</b>       |
| Size (L×W×H) | <b>185 × 140 × 130 mm</b>       | Weight         | <b>1,500 g</b>             |

# UV LED vs mercury lamps

|             | Incure L1344™ UV LED                        | Mercury arc lamp               |
|-------------|---------------------------------------------|--------------------------------|
| Start-up    | Instant on/off                              | Warm-up and cool-down needed   |
| Heat        | No infrared — safe for heat-sensitive parts | Emits infrared heat            |
| Environment | Mercury- and ozone-free                     | Contains mercury               |
| Life        | >20,000 hours, no bulb changes              | Regular bulb replacement       |
| Control     | Per-head intensity in 1% steps              | One lamp shared by all outputs |
| Energy      | Low-voltage drive, low consumption          | High-voltage lamp supply       |

## ORDERING

### L1344-[wavelength]

e.g. L1344-365

**Wavelength:** 365–470 nm

**Head:** Compact or Fan-Cooled

**Lens:** 3–15 mm spot

**Cable:** 3 / 5 / 10 m

**Lead time:** 3–4 weeks ARO

## NEED MORE HEADS?

### L2688™

The same controller, touchscreen, heads and lenses — with eight independent heads for high-throughput automated lines.

## Talk to an Incure curing specialist

Tell us your adhesive, part and line speed. We'll recommend the heads, lenses and settings.



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