UV Curing Equipment Selection Form

Helps us recommend an arc or LED flood, focused-beam or spot lamp

Technical datasheets (TDS/Engrg Dwg) are released only after this form is completed and approved.

1. Your details

Name * | **Company** * | **Email** *

Phone / WhatsApp | **Country** | **Industry (medical, electronics, optics…)**

2. Application

What are you curing? Describe the part and the process. *

Substrates ☐ Glass ☐ Metal ☐ Plastic ☐ Ceramic ☐ PCB / electronics ☐ Film / label

Other:

UV-transparent substrate? ☐ Yes ☐ No ☐ Not sure

Shadowed areas? ☐ No ☐ Yes ☐ Not sure

3. Adhesive, coating or ink

Product name / part no. in use * | **Manufacturer** | **Colour / opacity**

Material type ☐ Adhesive ☐ Coating ☐ Ink ☐ Conformal coating ☐ Encapsulant / potting ☐ Sealant

Other:

Datasheet wavelength ☐ 365 nm ☐ 385 nm ☐ 395 nm ☐ 405 nm ☐ Broad spectrum (arc) ☐ Not sure

Required dose (mJ/cm²) | **Required intensity (mW/cm²)** | **Bond line / coating thickness (mm)**

Tack-free surface needed? ☐ Yes ☐ No ☐ Not sure

4. Curing area and set-up

Area to cure ☐ Single small spot ☐ Several spots ☐ Line / strip ☐ Larger area ☐ Whole part / batch

Cure area L (mm) | **Cure area W (mm)** | **Spot dia. (mm)** | **Cure points / part**

Lamp-to-part distance (mm) | **Part height (mm)** | **Conveyor speed (m/min)** | **Parts per hour**

Process ☐ Manual ☐ Batch in a chamber ☐ Conveyor / in-line ☐ Robot / automated

5. Intensity, cure time and temperature

Intensity at the part (mW/cm²) | **Target cure time / part (s)** | **Current cure time (s)** | **Current intensity (mW/cm²)**

Max. substrate temp. (°C) | **Max. adhesive / coating temp. (°C)** | **Ambient temp. (°C)** | **Part temp. before cure (°C)**

Heat-sensitive parts? ☐ Yes ☐ No ☐ Not sure

Have a UV radiometer? ☐ Yes ☐ No ☐ Would like one

6. Equipment preference

Lamp considered ☐ Arc flood ☐ Arc spot ☐ LED flood ☐ LED focused beam ☐ LED spot ☐ Not sure — recommend

Controls needed ☐ Foot switch ☐ Timer ☐ PLC I/O ☐ RS232 ☐ Shutter / interlock ☐ Cure chamber

Mains supply (V / Hz)	Units required	Needed by (date)	Budget (optional)

Equipment used now (if replacing)

Other notes (attach photos / drawings to your e-mail)

Completed by (name / signature)	Date	Job title

Return the completed form to support@incurelab.com
We reply with a recommended lamp, the approved TDS/Engrg Dwg and a quotation. Fields marked * are required.

7. For Incure staff only — TDS/Engrg Dwg release approval

Releasing company ☐ Incure Adhesives Manufacturing (Singapore) ☐ Incure Inc (USA)

Request received (date)	Reviewed by	Recommended model	TDS/Engrg Dwg no. / rev.

Release ☐ Approved — release TDS/Engrg Dwg ☐ Not approved ☐ More information needed

Approved by	Approval date	Sent on (date)	Signature (type or sign)

Remarks / conditions (e.g. NDA required, territory)

How we choose your lamp

Area to cure	One small spot or a few points	A line or 10–50 mm area	Larger area, batch or whole part
Usual lamp	**LED or arc spot lamp**	**LED focused-beam lamp**	**LED or arc flood lamp**
Working distance	A few mm	About 20–100 mm	About 10–75 mm
Typical use	Bonding, tacking, potting	In-line / conveyor curing	Coatings, batch, chamber

- LED: little heat on the part, instant on/off, one wavelength (365–405 nm), more than 20,000 hours life.
- Arc (mercury): broad spectrum for materials that need UVC/UVB surface cure, or older formulations.
- Cure time (s) is about dose (mJ/cm²) ÷ intensity (mW/cm²) — so the datasheet dose and your target time set the intensity we specify.