



Your Partner in IR and UV Technology

Digital UV LED Curing System





Precision Curing, Built for Digital

Our Digital UV LED curing range is specifically for digital and inkjet ink curing, where precision and heat control matter most. With water-cooled and fan-cooled formats to choose from, our lamps deliver a cold, IR-free light source that cures even the most heat-sensitive substrates cleanly, consistently, and without distortion.

Precision UV LED Technology for Digital & Inkjet Ink Curing



Features

1. Precision Digital Ink Curing

- Purpose-built for UV LED ink curing across digital and inkjet printing platforms.
- Cold, IR-free light output cures heat-sensitive substrates without distortion or shrinkage.

2. Line-Speed Responsive Power

- Supports external I/O signal control, automatically adjusting UV power to match line speed.
- Digital dimming from 1-100% keeps output precisely tuned to every job.

3. Real-Time Monitoring & Safety

- Continuous monitoring of current, voltage and temperature, with automatic alarms the moment anything drifts.
- Remote chiller control, historical alarm logs and exposure time queries keep you in control, wherever you are.

4. Built-In Flexibility

- Available in water-cooled and fan-cooled formats, with emitting windows and power intensities tailored to your application.
- RS485 Modbus-RTU connectivity on our fan-cooled range for remote parameter control.

5. Automatic or Manual Operation

- Auto mode switches the UV LED off after a set time; manual mode keeps you in charge — whichever suits your workflow.
- COB module options, encapsulated in high-purity double-layer quartz glass, add durability where you need it most.



Technical Data

DIGITAL UV LED CURING SYSTEM

Technical Specifications

Water-Cooled Series for Digital Printing

Parameter	Value
Emitting Window	350 × 15–40 mm (model dependent)
Power Intensity	15–25 W/cm ² (395 nm/405 nm)
Wavelength Options	365 / 385 / 395 / 405 nm
Cooling Method	Water-cooled
Control Method	PLC
Power Adjustment	Digital dimming (1–100%)
Max Power Consumption	0.7–1.56 kW (model dependent)
Ambient Temperature & Humidity	–10°C to 50°C; 25%–80% RH

Fan-Cooled Series for Inkjet Applications

Parameter	Value
Emitting Window	60×10 mm (extendable to 350×10 mm), up to 150×20 mm / 80×40 mm
Power Intensity	8–12 W/cm ² (395 nm)
Wavelength Options	365 / 385 / 395 / 405 nm
Cooling Method	Fan-cooled
Control Method	MCU
Power Adjustment	Digital dimming (1–100%)
Max Power Consumption	0.12–0.6 kW (model dependent)
Connectivity	RS485 Modbus-RTU for remote parameter control

More wavelengths, curing sizes and power configurations are available on request — we'll help you specify the right lamp for your press and ink set.





Technical Data

DIGITAL UV LED CURING SYSTEM

Applications

- Digital UV LED ink curing
- Inkjet printing curing applications
- Heat-sensitive substrate curing
- Retrofit onto digital and inkjet press lines

Benefits

- No IR radiation — cold curing safe for heat-sensitive materials
- Line-speed responsive, automatic power adjustment
- Real-time monitoring with automatic alarm triggers
- Remote chiller control and remote parameter access
- Auto or manual operating modes to match your workflow
- Wide range of emitting windows and intensities to match your press



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