

UV LED Curing for Cold Foil Printing

LED Light Sources for Faster Curing Speeds on Sensitive Substrates

Cold Foil Printing has benefited greatly from the use of UV LED technology over traditional UV curing. Printers are upgrading rapidly to UV LED Cold Foil packages for many process advantages. These advantages include a deeper cure with a high peak UV-A wavelength that penetrates through metallic foil, delivering faster curing speeds, greater adhesion and cleaner foil finish. UV LED curing produces significantly less heat and no infrared. This allows printers to evaluate and use more heat-sensitive substrates. It's important to mention that UV LED curing will lower energy consumption providing lower energy costs.

Advantages of UV LED Curing for Cold Foil over Mercury UV:

- ✦ Faster speeds with improved resolution down to 3pt are possible with LED
- ✦ Richer/finer foil edges, cleaner foil finish
- ✦ Less heat, allows for the use of sensitive substrates
- ✦ Greater cure depth through foil film, more foil choices
- ✦ Superior adhesion performance, longer lasting finish
- ✦ No warm up, no ozone with minimal curing maintenance



UV LED Curing Applications:

- Wine labels
- Label embellishment
- Security (Company & product marking, holograms)
- Metallic embossing
- Shrink sleeve for package labels
- In-mold labeling

UV LED Curing Solutions

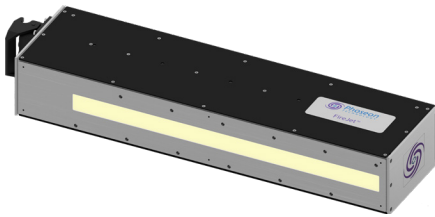
Our UV LED curing solutions are the most reliable on the market. Starting from 2002 in Portland Oregon USA, Phoseon Technology foresaw the value of LEDs for Industrial Curing applications. With over 300 patents worldwide, Phoseon has earned the reputation for technological innovation, quality and reliability.

FireJet™ FJ200 Light Source



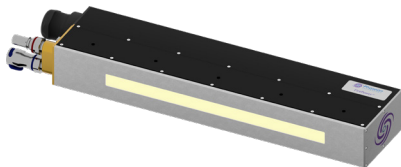
- Scalable design for edge-to-edge coverage
- Cooling: Air-cooled
- Peak Irradiance: 20W/cm²
- TargetCure & WhisperCure technologies
- High irradiance
- Digital/analog control
- Instant On/Off control/cure
- 20,000+ curing hours

FireJet™ FJ605 Light Source



- Emitting window sizes: 300 to 675x20mm
- Peak Irradiance: 20W/cm² at 395nm
- TargetCure & WhisperCure technologies
- High irradiance
- Air-cooled, internal fans circulate ambient air
- Instant On/Off control/cure

FirePower™ FP601 Light Source



- Emitting window sizes: 300 to 675x20mm
- Cooling: Water-cooled
- Peak Irradiance: 24W/cm²
- For higher dose applications
- Modbus/analog control
- Instant On/Off control/cure
- 20,000+ curing hours



Made in the
U.S.A.

Contact Phoseon Today!

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