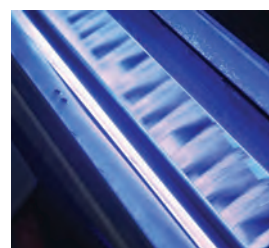




UV Curing System

No.1
FOR
**UV
LED**

Transform the economics of UV
with the most effective
UV LED curing technology



FASTER



GREENER



CHEAPER

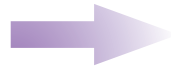
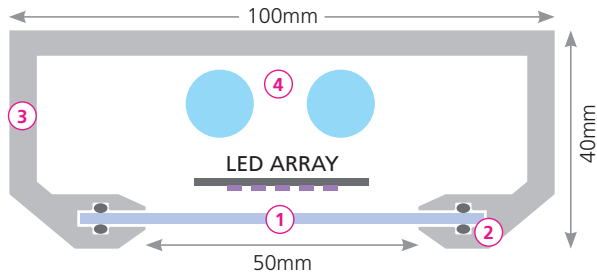


Designed and made in Britain

gewuv.com



...engineering UV



1 Most efficient curing

- Large window gives maximum light extraction.
- Longer dwell time gives highest dose.

2 Ultimate reliability

- Tough IP67 design protects LEDs at all times.
- Waterproof seals make for easy cleaning.

3 Fits anywhere

- 40 x 100mm profile can fit on any machine.
- GEW's familiar cassette design is provided as standard.

4 Water-cooled

- Silent operation improves factory ambience.
- No air movement or dirty filters for sensitive processes.

5 Thermal management

- Extensive investment and years of research and development have resulted in unrivalled thermal management. This is the secret behind LeoLED's game-changing performance.

6 Condensation protection

- Innovative warm water cooling system prevents condensation, even in the hottest and most humid environments.

7 Temperature control

- Embedded temperature sensors constantly monitor the LEDs to ensure safe, long term operation and reliability.

Charlie Anderson

Managing Director, C & D Print Media, England

Using GEW LED UV on a Heidelberg SM74 press

"Instant drying means that we can follow on with any finishing process immediately after printing. It's one of those things... you wonder how you ever got along without it."

David May

Managing Director, Empress Litho, England

Using GEW LED UV on a Heidelberg CD 102 press

"With LED we achieve better-than-digital quality but in digital turnaround times... and our production costs are lower than digital, so we get a better margin. It's a win-win."

Specification

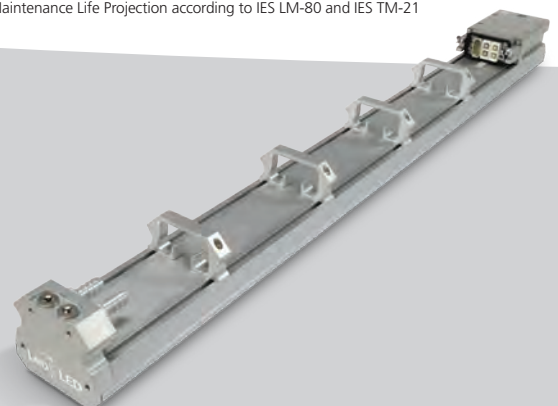
Max electrical power	88W / cm
Peak Wavelength	395nm**
Irradiance at window	30W / cm ² *
Typical dose @ 100m / min	270mJ / cm ² *
Max length	170cm
Standard cross section	100mm W x 40mm H
Cooling	Water
Standard max operating temperature	40°C (104°F)
Expected diode lifetime	40,000 hours†
Standard max humidity	Non-condensing

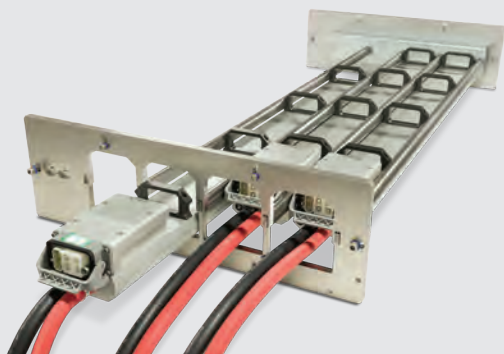
† Also available at 88W/cm and 53W/cm, with commensurate change in irradiance and dose statistics.

* Measured under standard GEW lab conditions with a standard lamphead configuration.

** 365nm, 385nm & 405nm available upon request.

‡ Lumen Maintenance Life Projection according to IES LM-80 and IES TM-21



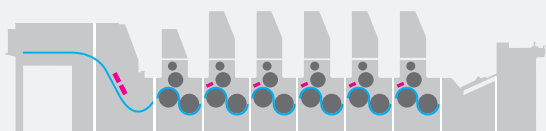


Modular Lamp Array (MLA)

The MLA is a customisable arrangement of LED mounting positions on a printing press.

Lamps can be freely moved between any position to change curing configuration and adapt to the job at hand. For highly demanding applications (such as B1 LED coating at 18,000sph) multiple lamps can be placed in tandem at the end of the press.

■ Example lamphead mounting positions



Lampheads movable to any mounting position

Carl Zetterström

Printing & Postpress Manager,
TMG Stockholm, Sweden

Using GEW LED UV on a Manroland 700 HiPrint, 8-colour perfecting press

"I would say that if you have tried LED UV, you would never run a regular offset press again."



Why use GEW UV LED?



Turnkey solutions

GEW deliver a complete integrated UV curing solution. Along with lampheads, cooling equipment, power supply and user control systems, GEW provides custom designed mounting and shielding for a seamless integration on your press.



Faster turnaround

Instant ink drying enables immediate finishing and despatch of jobs. Sheets can be folded, cut, bound and processed right away, reducing work-in-progress and significantly shortening lead-times.



Print without limitations

UV LED inks enable printing on almost all stock types including PE, PET, PU, synthetic paper etc. and bring added value and increased product diversity with coated and uncoated papers, plastics and foil laminated sheets.

Unlike UV lamps, LEDs emit little infrared heat towards the substrate. This avoids common issues such as high pile temperatures, curling of heat-sensitive materials and loss of moisture in paper.



Ultimate productivity and peace of mind

No moving parts for low maintenance and no warm-up/cool-down mean less UV related downtime, which increases press productivity. Furthermore, GEW offers up to 3 years LED warranty, irrespective of running hours.



Reduced energy consumption

LED instant on-off means that no energy is consumed when the press is idle. The higher electrical efficiency of LEDs and the purity of UV output allow typical energy savings of over 70%, compared to H-UV or IR lamp systems.



No marking, no sealer or spray powder

UV LED inks and varnishes are 100% cured instantly after the LED lamp. Marking of sheets in the delivery or perfecting process is eliminated and machine varnish or sealer is no longer necessary. No spray powder is required, removing widespread contamination and associated cleaning and maintenance.



Sharper dots and vibrant colours

GEW's LEDs achieve sharper dots, more vibrant colours and a higher quality finished product.

Transform your offset press



Also available configured for
web presses

Relax... you're in safe hands

GEW Remote Monitoring Service



Remote Monitoring is an IoT technology included as standard on every GEW RHINO/RLT UV system, and is Industry 4.0 approved.

All such systems are continuously monitored to ensure they are operating at peak efficiency, 24/7/365.

This also enables GEW to provide the **fastest and most precise service response in the industry.**

System performance reports

The Event Log continually records system use and regular reports are generated for the customer, detailing energy usage, press productivity and system performance.



RHINO power

Compact, fail-safe power

RHINO and RLT power units can supply up to 12 UV lamps from one compact cabinet with a 1265mm x 800mm footprint.

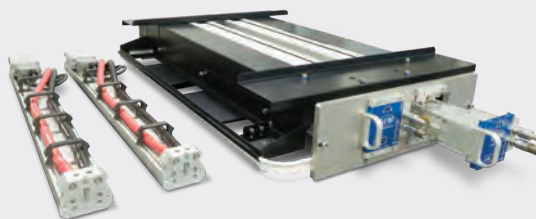
The power supplies are designed to run in ambient temperatures up to 40°C and are protected from common mains power events (e.g. short-to-ground, mains dips) by a safe shutdown mode, for ultra-reliable operation.

5-year warranty available



Using GEW's embedded service package gives total confidence in the reliability of GEW power electronics, and minimises unplanned maintenance costs. **GEW is the only UV supplier to offer this level of warranty on the full system.**

ArcLED Hybrid LED+UV



ArcLED hybrid UV technology allows interchanging of a UV Arc lamp or LED array in the same housing.

Optimise your press with a mixture of Arc and LED curing on any station, for the ultimate flexibility.



Head Office

GEW (EC) Limited, Crompton Way, Crawley RH10 9QR, UK

UK +44 1737 824 500

E sales@gewuv.com

Germany +49 7022 303 9769

W gewuv.com

USA +1 440 237 4439