

NEXT GENERATION



Water-cooled UV LED Curing System

Highest power UV LED
for the most demanding
applications



+55% Electrical Power*

+50% UV Dose*

+45% UV Irradiance*

ArcLED®
Patented
Interchangeable
Technology

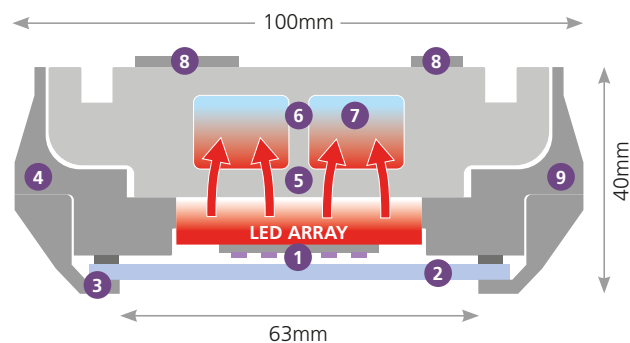
*LeoLED2 at 140W/cm versus an original LeoLED at 88W/cm

Designed and made in Britain

gewuv.com

GEW
...engineering UV

- 1 **LED modules** are closer to substrate for higher irradiance, improving curing efficiency.
- 2 **Larger window** improves light extraction, giving more UV dose for the same electrical input power.
- 3 **Window seal** stops ingress of particles and moisture, protecting LEDs from contamination.
- 4 **Maintains compact footprint** to fit in tight spaces, or supplied in Cassette format for ArcLED interchangeability.
- 5 **Greatly improved cooling** mechanism reduces LED temperatures and allows higher power dissipation.
- 6 **Water-cooled** for highest power and cooling efficiency. No air movement, no noise.



- 7 **Warm water cooling** system prevents condensation.
- 8 **Sensors** monitor LED temperature to ensure safe, long-term operation and reliability.
- 9 **LeoLED2** and **AeroLED2** share the same core components, enabling high volume, industrialised manufacture and improved reliability.

Dave McConnon

Chief Operating Officer, Meyers Printing, Minnesota, USA

Using GEW LED & Arc systems across five flexo presses:

"We wanted to be able to run our flexo presses faster. We were also looking for energy savings and we knew we needed to switch... it was just time."

We chose GEW because we needed the flexibility to be able to do Arc or LED curing, and GEW's cassette system really lends itself perfectly to that. The interchangeability between Arc and LED absolutely pushed things along for us, and moved us into LED sooner. It gives us all kinds of flexibility."

Specification	Option 1	Option 2
Max electrical power	84W / cm	147W / cm
Wavelength	395nm*	395nm only
Irradiance at window	32W / cm ²	44W / cm ²
Typical dose @ 100m / min	200mJ / cm ² **	300mJ / cm ² **
Max length	240cm	
Cross section (LeoLED2 Cassette)	110mm W x 190mm H	
Cross section (LeoLED2 Standard)	100mm W x 40mm H	
Cooling	Water	
Standard max operating temp	40°C (104°F)	
Expected diode lifetime	40,000 hours	
Max humidity	Non-condensing	

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

** Measured with an EIT LEDMAP with L395 (370 - 422nm) responsivity.



Highest power UV LED for the most demanding applications



Water-cooled UV LED Curing System

Cut your energy costs



Energy Consumption[†]

GEW E4C
696,500 kWh

LeoLED2
236,600 kWh

>65%
SAVING

Free up mains capacity



Electrical Requirement[†]

GEW E4C 223 kVA

LeoLED2 92 kVA

>55%
SAVING

[†] Figures for comparison are based on a 40" press, 5-colour + coater with interdeck and end of press lamps, and include a chiller unit.

Typical energy savings of over 65%, and electrical requirement savings of over 55%, dependent upon configuration.

Assumptions: 400V | 50Hz | 1000m above sea level | 25°C ambient temperature | 60% duty cycle | 3 shifts of 8 hours, 312 days per year.

Amos Michielin

Press Manager, Grafiche Antiga spa, Italy

Using GEW UV LED on a Koenig & Bauer Rapida 105 press

"With LED, we can now print every type of project for our customers, for example we can print with high gloss varnish, with whites on natural papers, we can print on laminated paper, with one pass, with the white in first unit and four-colour on."

"We can print on PVC, in one face four-colour and white... black... every type of project, no problem."



Patented
Interchangeable
Technology



ArcLED cassettes can quickly and easily be interchanged; only a hex key tool is required.

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.

GEW have held granted patents covering this technology internationally since 2016.

Why use GEW UV LED?

Reduced energy consumption

Higher electrical efficiency of LEDs and purity of UV output allow typical energy savings of over 65%, compared to conventional UV.

No ozone, mercury-free

GEW LEDs produce no ozone, so there are no air extraction requirements.

5 year warranty available

LeoLED2 diodes are proven to run over 40,000 hours. Warranties are available for up to 5 years, irrespective of running hours.

Turnkey solutions

GEW deliver a complete integrated UV curing solution; including lampheads, cooling equipment, power supply and control systems.



gewuv.com/leoled2

GEW
...engineering UV

Model variants

LeoLED2 Cassette



- For ArcLED interchangeability
- More ergonomic, easier to maintain
- Default format if space allows

LeoLED2 Standard



- For LED-only positions
- For tight spaces/machines, e.g. perfecting positions in sheetfed offset and/or retrofit of interdeck positions

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.



UPGRADE to LED NOW...

For GEW RHINO and RLT users, UV curing systems can be upgraded to LED UV by simply adding a LeoLED2 cassette and a chiller unit.

GEW UV LED SYSTEMS OFFER THE MOST AFFORDABLE ROUTE TO LED PRINTING



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