



Water-cooled UV LED Curing System



Patented
Interchangeable
Technology

The **highest power**
UV LED system



Designed and made in Britain

gewuv.com



Why use LeoLED2?

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

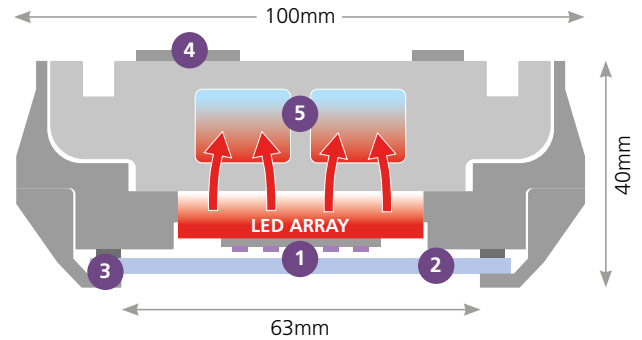
GEW deliver a complete integrated UV curing solution; including lampheads, cooling equipment, power supply and control systems.

Fully water-cooled

- Water-cooled for highest power and cooling efficiency. No air movement, no noise.
- Warm water-cooling system prevents condensation.
- Cooling mechanism reduces LED temperatures and allows higher power dissipation.

ArcLED compatible

- LeoLED2 uses the same water-cooling system as GEW's E4C system. This means E4C and LeoLED2 can be interchanged freely on any print station.
- Available in cassette format for ArcLED interchangeability, or compact footprint to fit in tight spaces.



- 1 LED modules
- 2 Large window
- 3 Window seal
- 4 Temperature sensors
- 5 Warm water cooling system

Proven reliability

- LeoLED2 and GEW's AeroLED2 share the same core components, enabling high volume, industrialised manufacture and improved reliability.
- Embedded temperature sensors constantly monitor the LEDs to ensure safe, long-term operation and reliability.

Most efficient curing

- Larger window improves light extraction, giving more UV dose for the same electrical input power.
- LEDs closer to the window increases irradiance at the substrate, improving curing efficiency.

Easy maintenance

- Tough watertight seal protects LEDs from dust/water ingress.
- GEW's standard cassette design for easy maintenance and servicing.
- No integrated fans in lamphead.

Cut your energy costs



Energy Consumption[†]

GEW E4C
696,500 kWh

LeoLED2
236,600 kWh

>65%
SAVING



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.

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."



**Patented
Interchangeable
Technology**

**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.



**Watch the ArcLED
video demonstration**

gewuv.com/arcledvideo



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

Specification	LeoLED2b	LeoLED2	LeoLED2 HP
Maximum electrical power	68W / cm	84W / cm	118W / cm
Wavelength	395nm*	395nm*	395nm*
Irradiance at window	27W / cm ²	33W / cm ²	37W / cm ²
Typical dose @ 100m / min	170mJ / cm ² **	200mJ / cm ² **	285mJ / cm ² **
Maximum length	90cm	250cm	250cm
Typical cross section (cassette)	110mm W x 190mm H	110mm W x 190mm H	110mm W x 190mm H
Typical cross section (standard)	100mm W x 40mm H	100mm W x 40mm H	100mm W x 40mm H
Cooling	Water (25 - 40°C)	Water (25 - 40°C)	Water (25 - 40°C)
Maximum operating temperature	40°C (104°F)	40°C (104°F)	40°C (104°F)
Maximum humidity	Non-condensing	Non-condensing	Non-condensing
Expected diode lifetime	40,000 hours	40,000 hours	40,000 hours

Other specifications are available, dependent upon power supply and integration restrictions.

* Other LED wavelengths are available.

** Typical dose measured with an EIT LEDMAP with L395 (370 - 422nm) responsivity.

EOS intelligent options now available

Powered by



☒ All standard features



Powered by



- ☒ All standard features PLUS:
- ☒ Detailed telemetry for accurate reporting, including hour and reflector counters
- ☒ Embedded intelligence auto-configures power supply for management and servicing
- ☒ End-to-end encryption for enhanced system security
- ☒ Allows rapid, unlimited cassette flexibility on each station

Relax... you're in safe hands

GEW Remote Monitoring Service



Remote Monitoring is an IoT technology available with GEW UV systems 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 **fast and precise service**

responses to all our customers.

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.

Turnkey solutions

Factory tested and ready to run

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

Each system is operationally tested and certified before leaving GEW's manufacturing facility. Following installation and commissioning, the UV system is ready for a lifetime of robust, dependable 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.



gewuv.com/leoled2

System options

- Various wavelengths available
- Inert atmosphere solutions
- Precision dose control systems
- System integration options
- Cooling and maintenance options
- Lamphead configuration options
- Fully engineered solutions designed to suit your specific application



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