

AeroLED²

Air-cooled UV LED Curing System



Patented
Interchangeable
Technology

The most economical
low energy LED system



Designed and made in Britain

gewuv.com

GEW
...engineering UV

Why use AeroLED2?

Efficient and sustainable

Simple cooling with no water chillers. Reduce energy costs by >55% versus comparable Arc systems. No ozone, no mercury.

Fully air-cooled, high power UV LED

Single remote fan sited behind the press means no integrated fans in lamphead.

Step change process reliability

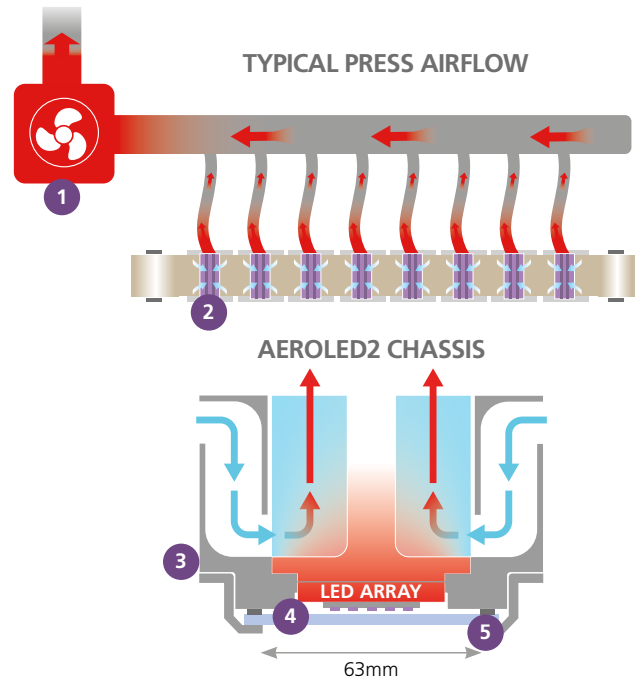
Consistent LED output over lamp lifetime ensures perfect process control, compared to variable UV output of Arc lamps.

1 Fully air-cooled

- One centralised fan delivers quiet and reliable operation.
- No further cooling required; significantly reducing investment cost and power consumption.
- No heat exhausted onto press or into press room, air can be ducted out.

2 ArcLED compatible

- AeroLED2 uses the same cooling system as GEW's proven E2C system. This means E2C and AeroLED2 can be interchanged freely on any print station.
- High redundancy in the cooling design means no filters are required making life simpler and cleaner for operators.



3 Improved reliability

- AeroLED2 and LeoLED2 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.

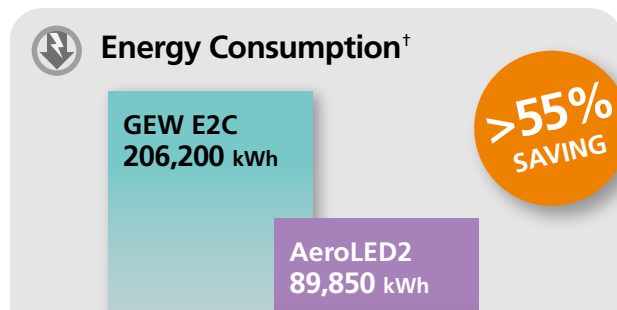
4 Most efficient curing

- 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.

5 Easy maintenance

- Tough watertight seal protects LEDs from dust/water ingress.
- GEW's regular cassette design for easy maintenance.
- No integrated fans in lamphead.
- Robust air-cooled heatsinks are easily accessible for cleaning when cassette is removed.

Cut your energy costs



[†] Figures for comparison are based on a 47cm width, 8 lamp curing system. Typical energy savings of >55%, and electrical requirement savings of >50%, dependent upon configuration. Assumptions: 400V | 50Hz | 1000m above sea level | 25°C ambient temperature | 60% duty cycle | 2 shifts of 8 hours, 312 days per year.

Trevor Nadar

Owner
TDC Printers, Durban, South Africa

Using AeroLED2 & E2C on a Mark Andy P-Series press

"I'm very confident that I've made the best choice. It's the future. LED is the future and I'm just happy that I've taken the step to upgrade my presses to LED... I have a peace of mind now... less problems, less issues. With the LED, we can run our presses up to 50% faster."

"There's a lot of cost savings involved and it's hassle free. That's what I love about LED."



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	AeroLED2b	AeroLED2
Maximum electrical power	46W / cm	63W / cm
Wavelength	395nm*	395nm*
Irradiance at window	20W / cm ²	23W / cm ²
Typical dose @ 100m / min	125mJ / cm ² **	170mJ / cm ² **
Maximum length	70cm	70cm
Typical cross section	110mm W x 190mm H	110mm W x 190mm H
Cooling	Air	Air
Maximum operating temperature	35°C (95°F)	35°C (95°F)
Maximum humidity	Non-condensing	Non-condensing
Expected diode lifetime	30,000 hours	30,000 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/aeroled2

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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