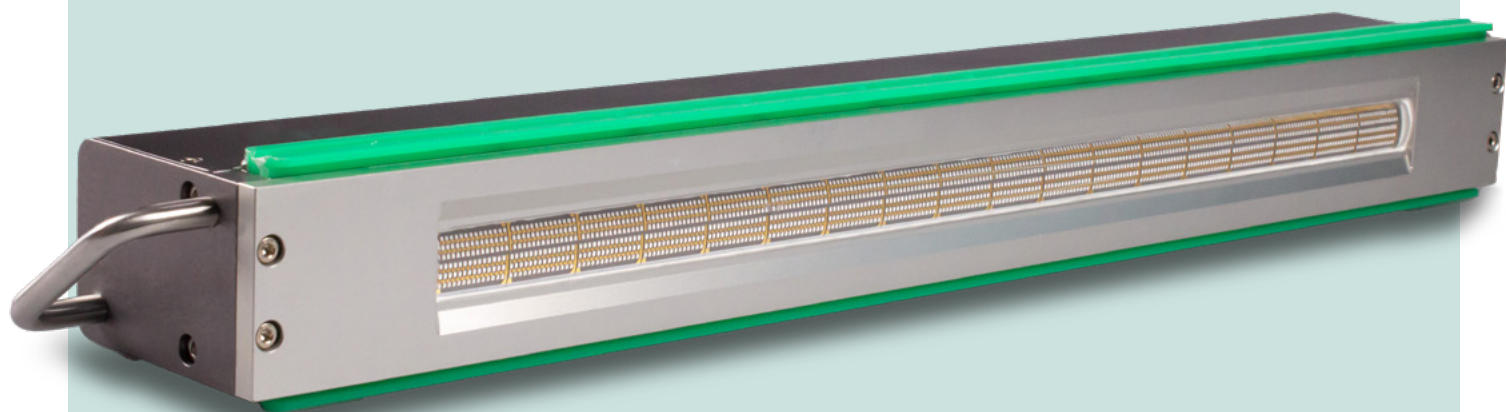
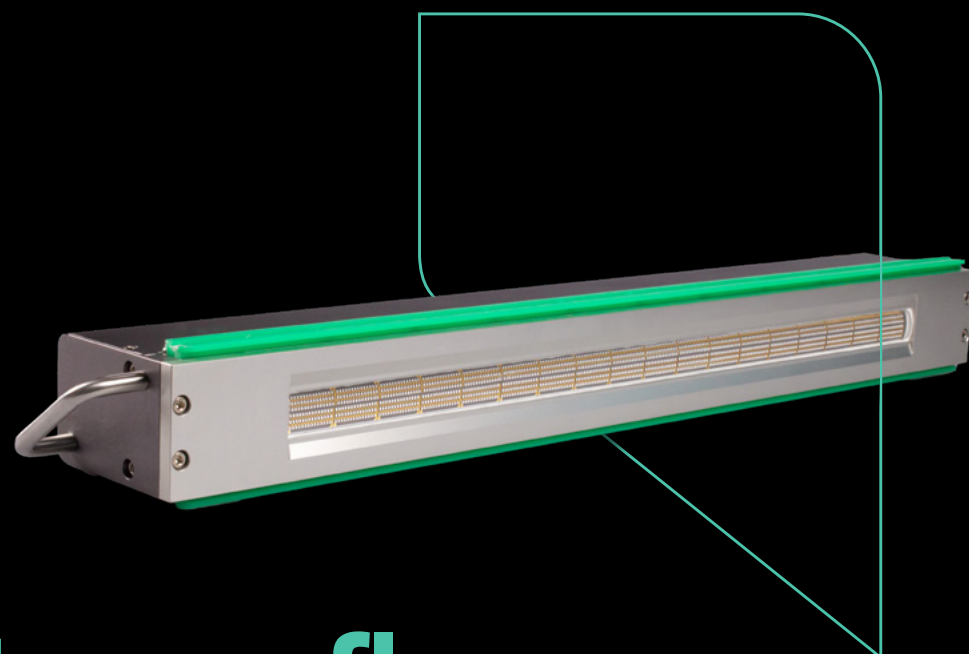




LuXtreme LED UV curing system

PRODUCT BROCHURE



LUXTREME


Convert your flexo press to LED UV

The LuXtreme LED UV curing system, in combination with the company's new high performance CuremaX flexo inks, allows any traditional flexo press to be converted to LED UV curing to deliver far-reaching improvements to label production on a narrow web press.

Productivity and quality improvements

Thanks to the high performance of the LuXtreme LED UV curing system, productivity and quality improvements are significant. Not only can press speeds be increased, but job set up and make ready times can be reduced as there is less material distortion due to heat.

Improved substrate stability also results in a more controlled ramp up to production speeds, and it is often possible to achieve the required colours much faster with Fujifilm's high performance CuremaX flexo ink system. Add to that improvements to the system reliability with much lower press down time, productivity gains can be significant. Quality also becomes more consistent as the impact of the heat from the UV lamps is reduced, resulting in better registration and less substrate distortion.

Savings in energy, materials, labour and waste

Due to the reductions in power required for the LED UV lamps, cost savings can be made across the production process. The energy savings are significant, but material usage and waste are also reduced, and the lower maintenance required to support the LED UV curing system results in a much lower number of replacement parts, with lower associated labour costs.

Environmental improvements

The LuXtreme LED UV curing system has significant benefits to both the working environment and the environment as a whole. Energy use is reduced, with no energy used in stand-by mode, and the lower amounts of materials used and waste produced all benefit the environment. The working environment for operators is also improved, with many undesirable factors eliminated or reduced, including heat from the conventional UV lamps, ambient noise and odour.

Key features:

- High speed, up to 200 m/min
- Suitable for heat-sensitive substrates
- Instant on/off with no energy used in stand-by mode
- Sustainable ozone and mercury-free system
- 30-60% fewer LEDs required to achieve same radiant intensity as other comparable systems
- 30-50% higher radiant intensity, up to 25 W/cm²
- Special LED adapter allows easy integration on existing mountings
- Up to 50,000 hours LED life
- Up to 720 mm lamp length, scalable in 24 mm steps

LuXtreme Pro

Keep your production running without interruptions

The LuXtreme Pro utilises the latest LED curing technology and a smart modular design that keeps working even if part of the system fails. This built-in safeguard protects your critical processes, prevents costly downtime, and gives you the confidence that your production will stay on track.

Unmatched 48% efficiency

The LuXtreme Pro sets a new benchmark in LED UV curing with an unrivalled efficiency of 48%, delivering more curing power with significantly less energy. Its high-performance LED chips ensure optimised radiation characteristics for consistent, high quality results while reducing energy consumption by up to 30% per LED module compared to current technologies.

Ready for today and tomorrow

Designed for the future, the LuXtreme Pro features a modular, adaptable architecture that fits seamlessly onto existing presses and can be easily upgraded to UVC LED when the market is ready. This future-proof design safeguards your investment and keeps you ahead of evolving technology.

Sustainability & efficiency combined

The LuXtreme Pro system delivers a reduced CO₂ footprint through exceptional energy efficiency, lower power consumption, and minimal maintenance requirements. Reliability is built in, ensuring long-term performance with minimal downtime.

Equipped with SMARTcure technology, the system works in perfect synergy with CuremaX inks to deliver an exceptionally energy-efficient curing process. This intelligent curing technology optimises performance while further reducing energy use – combining sustainability with uncompromising production quality.



LuXtreme SMARTcure

The clever system for modern, energy-saving production processes

How much energy can be saved with LED UV technology? This is probably the most frequently asked question and cannot be answered in general terms. The more reactive an ink, the more energy savings are possible. As an LED UV system is ready for use as soon as it is switched on, standby times are eliminated. Format switching also allows LEDs outside the printed area to be switched off saving additional power. Smart curing technology for optimised production

Ultimately, curing systems must be able to do more than just curing. Our LED UV systems are therefore equipped with our new SMARTcure technology. SMARTcure is the new digital brain of our special light sources and enables energy and CO₂ savings to be maximised, as well as improve efficiency, and helps achieve a long service life for the LED light sources.

Significant power consumption benefits

SMARTcure is a new system that controls the LED UV curing process, resulting in reductions in consumption through:

- Optimising the power of the curing system
- Format switching of LEDs depending on what is being printed
- Reducing the cooling capacity
- Reducing the amount of nitrogen (for inertised systems)

Longer life LED curing benefits

The LuXtreme SMARTcure system uses AI to recognise potential energy savings and can positively influence the service life of an LED curing unit. The necessary parameters (such as substrate, ink and varnish information) are entered manually or automatically via an interface and uploaded to a cloud-based database where analysis is undertaken and performance optimised.

Save energy, materials, labour and waste

The system then calculates:

- The required power of the LED UV system depending on the type of ink and ink location
- A prediction of the maximum production speed depending on the required dose
- The required LED zones in relation to the printed format
- The potential energy savings
- The resulting extended LED service life

The user can use a feedback option to evaluate the curing quality. Feedback and changes to settings are processed directly in the cloud. Other measuring systems can also be used so that the SMARTcure system can learn continuously, resulting in a simple and user-friendly optimisation process for modern curing applications.

Better for the environment

The data transfer between the system and the cloud can also provide operating data to improve the maintenance process, with the additional benefit of establishing a better operating environment and more sustainable work processes.

UV Analyzer

The UV Analyzer is an innovative, app-based LED UV radiation measuring device. It consists of the free UV Analyzer app for Android and iOS, the UV Analyzer measuring strips and the UV Analyzer Stick. The UV Analyzer offers a simple and precise way of displaying the measured LED UV dose in mJ/cm². This value can then be compared with a reference value at any time to determine the ageing process. The app also displays the dose measurements in relation to the type of curing unit. The UV Analyzer is ideal for quality assurance and documentation of the LED UV curing process.

- Independent measurements on printing presses
- Self-adhesive measuring strips
- Rechargeable battery via USB
- Smartphone can be used as measuring device



CuremaX flexo inks

Fujifilm's CuremaX ink ranges include dual cure products designed to work alongside the LuXtreme LED lamp systems with the added benefit of curing under conventional UV lamps. Each CuremaX ink range incorporates a range of colours, process inks, metallic shades and specialist products, and are all formulated to meet the changing demands of the flexo industry. The manufacturing of these products ensure a consistent, high quality result time after time with vibrant strong colours.

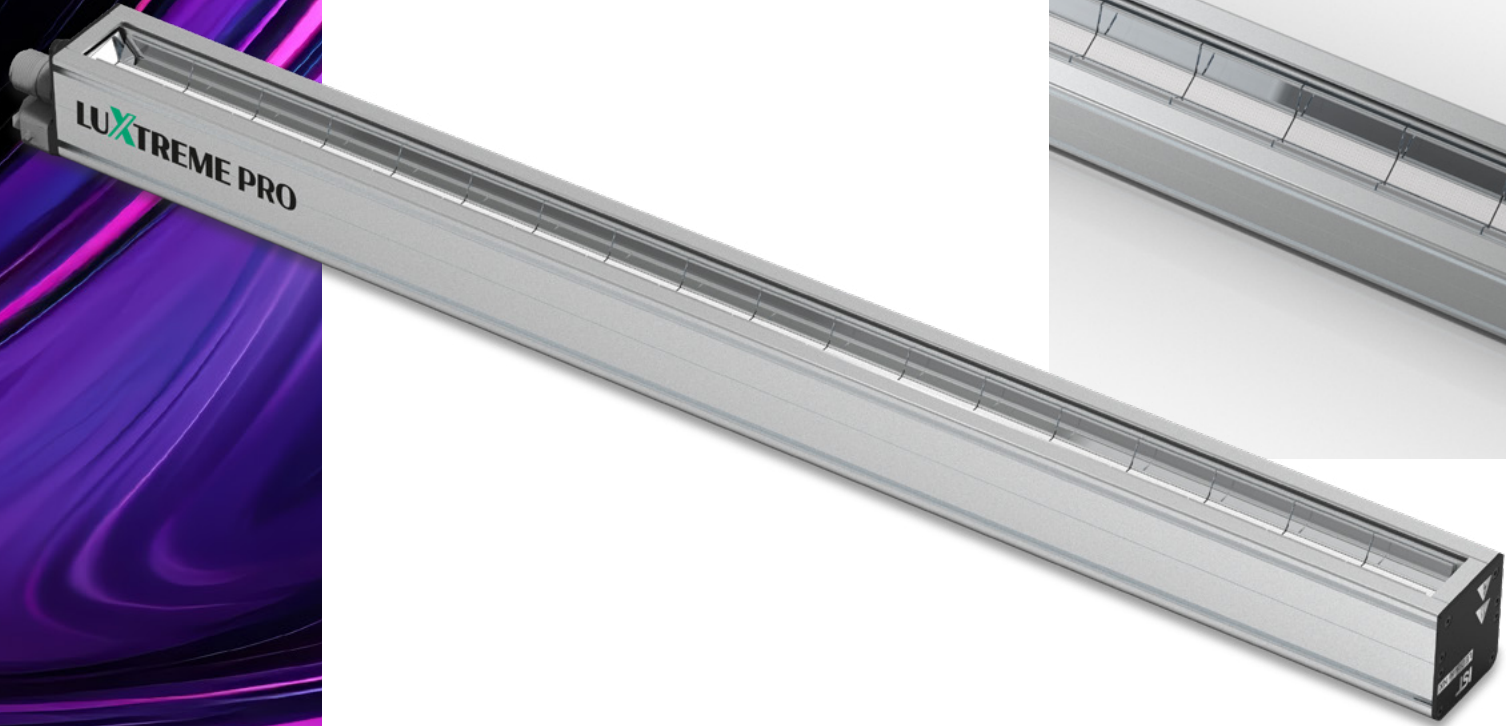
“
CuremaX LED-curable inks
perform better on press
than others we trialled.”

Colin Le Gresley
Owner, Aztec Label



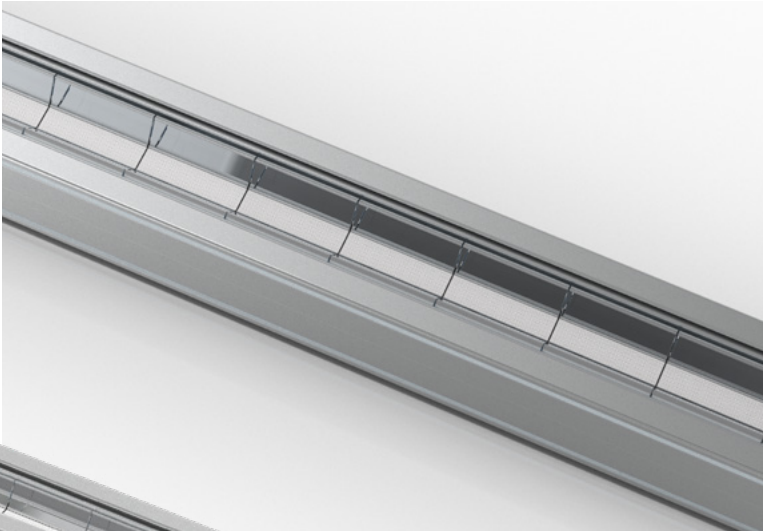
Key benefits that CuremaX inks offer include:

- Low viscosity press ready colours
- High colour density
- Adhesion to a wide range of synthetic substrates Including top coated PE & PP, PVC, PET, some thermal papers, metallised foils and most commonly available papers
- Suitable for a wide range of applications including self-adhesive labels and unsupported films for shrink sleeve, sachets and pouches
- Over printable with thermal transfer ribbons and cold foil adhesives
- Good hot foiling properties
- Dedicated Pantone® formulation matching system
- Flexo sleeve white for shrink sleeve applications

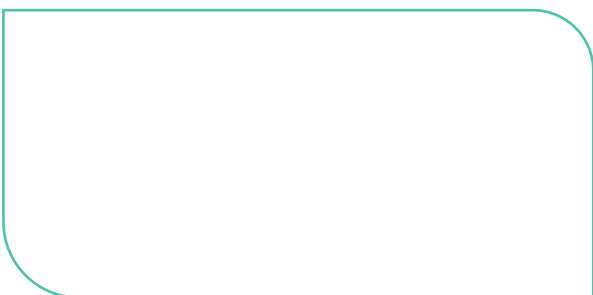


Technical specifications

	LuXtreme	LuXtreme Pro
Power consumption	90-100 W/cm	79 W/Cm
LED efficiency		48%
Dose @ 100m/min	200 mJ/cm² ±10%	227 mJ/cm² ±10%
Ambient operating temperature	Max 35°C	
Cooling	Water-cooled	
Run-up time	< 1 s	
Wavelength	395 nm	
LED suitability	Varnishes, pigmented varnishes, paints	
Certification	CE-Mark, REACH; ROHS	



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