

VICTORY  
ULTRAVIOLET

Your Partner in IR  
and UV Technology

UV-LED System





# UV-LED System

Industrial curing processes are complex requiring lots of experience and expertise. UV LED curing technology provides a more consistent and reliable process without damaging or discolouring heat sensitive components.

VICTORY UV LED curing system is based on the latest LED technology, which combined with a highly effective and smart construction ensures a stable and accurate curing quality for different types of coating, printing, bonding application.

## Features

### High energy output: up to 26 W/cm

VICTORY UV LED curing systems provide high and constant UV output to fulfil requirements for different applications. VICTORY UV LED systems can easily reach energy output up to 650 mJ/cm and peak energy more than 24-26 W/cm.

### Long lifetime: >20.000 h

With our highly effective water chilling construction, VICTORY UV LED curing systems keep a low temperature even powered at 26 W /cm. VICTORY cooling systems optimise the heat extraction from the LED chip, which provide a surface printing temperature of lower than 40 C. Low temperatures also reduce wastage and rejects heat sensitive substrates.



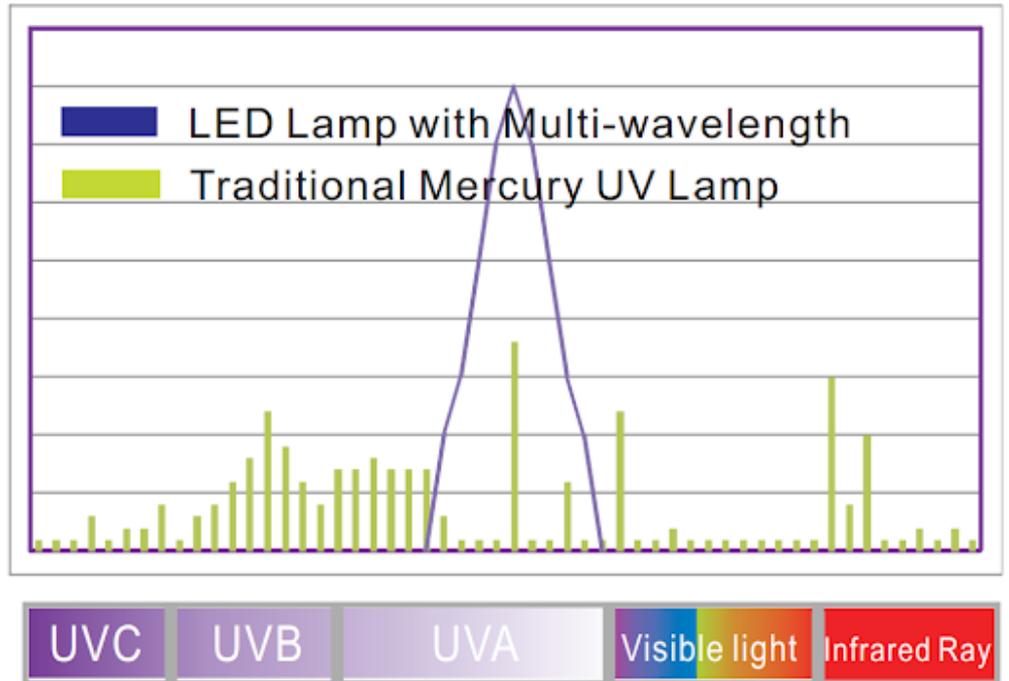
Peak Wavelength	combination 365-385-395- 410nm
Peak Energy Output	up to 26 W/cm
Array Width/Length	50mm up to 3000mm
Lamp Dimensions	60mm x 100mm x length
Power Control Range	0-100% with instant on-off
Expected working life	> 20.000 Hours
Control System	Integrated PLC
Cooling System	Closed Loop Water with Automatic Flow Control
Certifications	CE, UL..



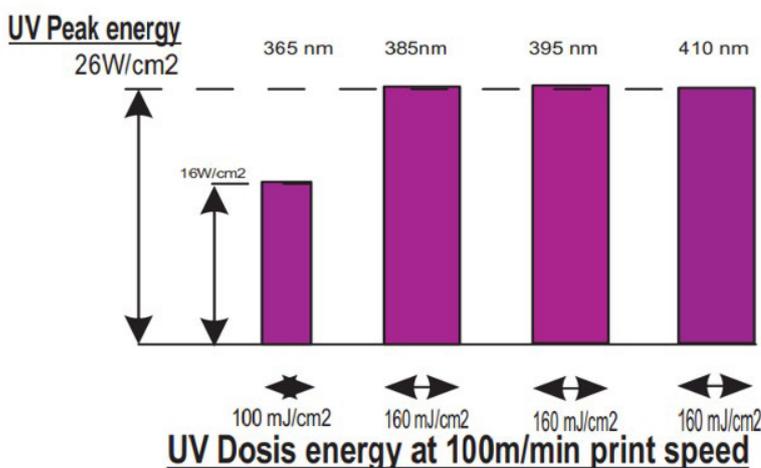
### VICTORY LED curing system with multi-wavelength output

Compared with a general mercury lamp, normal LED can only provide a very narrow band. See the diagram above, which compares the output of a multiwavelength (365 nm-410 nm) LED lamp with a traditional mercury lamp. At the same wavelength 365 nm, an LED lamp can output much more energy than traditional mercury lamp, meaning it can provide a greater high energy output in a UV-A range.

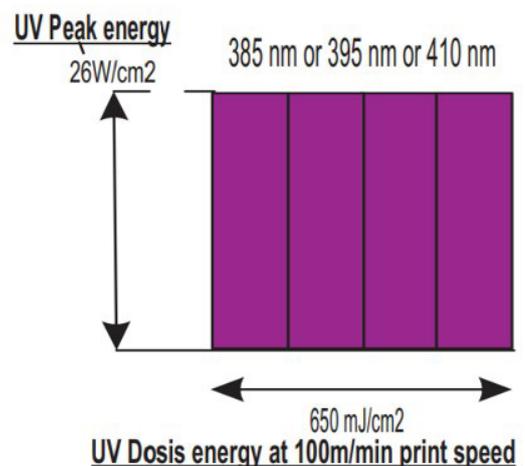
VICTORY UV LED curing systems use the latest LED technology on LED chip combination to reach high Joule Energy (DOSIS Energy), so it can easily cure UV ink in UVA range instead of a single wavelength LED ink. VICTORY UV LED curing systems can setup different energy outputs at different wavelengths according to our client's ink performance.



#### Multi wavelength LED Lamp



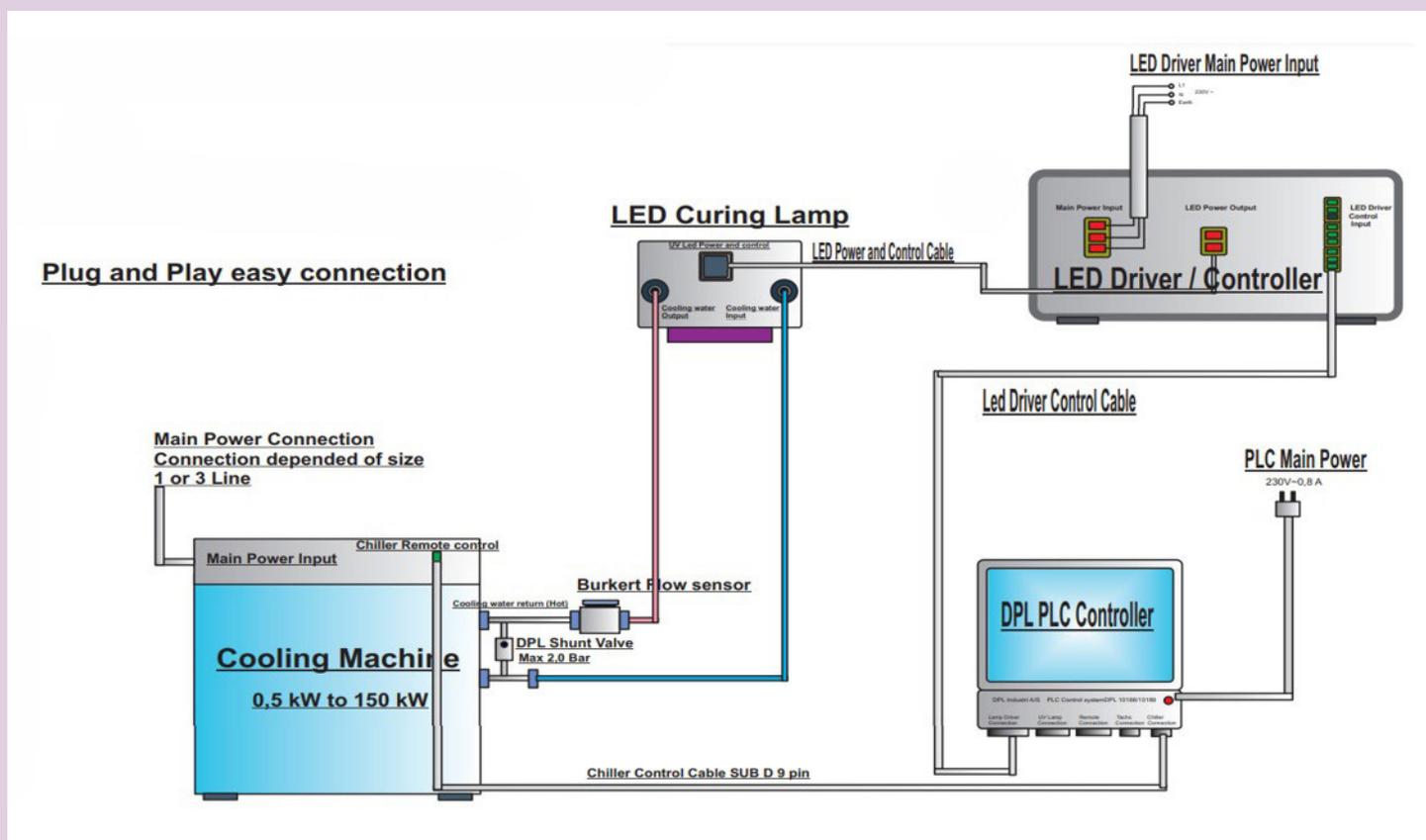
#### Single wavelength LED Lamp





### "Plug & Play" smart system:

VICTORY UV LED curing systems are smart units with "plug & play" design, easy to operate and suitable to install in existing machines.





### VICTORY UV LED Curing system feature:

- High UV Energy output up to 26 W/cm
- Longer working lifetime up to 50,000 hours
- Suitable for high printing speed up to 350 m/min

### Specification:

VICTORY UV LED curing systems use our own design UV LED Modules with wider curing area (41×60 mm per unit) and high-resolution optical lens, which can provide high curing energy up to 26 W/cm<sup>2</sup>.

Each UV LED module has one UV LED driver with stable voltage and adjustable electric current, which provide high uniformity energy output up to 98%. The independent driver unit also increases the UV LED module's working lifetime and decreases UV LED energy damping.

VICTORY UV LED curing system series is built with lengths from 82 mm to 2240 mm. We also provide a custom design service.

VICTORY UV LED curing system includes one set of lamp housing, one set of UV LED Drivers and one set of PLC. Clients can use their own chiller or recommended brands. To protect UV LED Modules' working life, we request chiller should have flow sensor, so chiller will be automatically switched on/off according to the VICTORY temperature sensor in the lamp housing.



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