

LEDcure SC Series - Watercooled

Class leading Compact, High Output, Water cooled UV LED Solutions

SC Series with its unbeatable dose and unmatched linearity of output can outperform other watercooled units of this type - even those claiming higher peak intensity.

Slim and compact architecture enables easy integration while the water cooled feature provides a stable and precise high output, that is not affected by the local



SC Series	
Wavelength	395nm (Std), 365nm, 385nm, 405nm and mixed wavelengths
Power	20W/cm ² *
Dimension (WxH)	43mm x 162mm
Emmission window	23mm Width
Operation Temperature	Up to 45°C depending on humidity level
Cooling water temperature	24-26°C
Weight	Approx. 700g per 90mm step
Cooling	Watercooled with STEADY-cool technology
Cable	Up to 12m supply and signal cable (5m Standard)
Protocoll	Standard I/O
Addressability	30mm steps**
Power Output	10-100%
Options	Length >540mm Housing in 30mm steps Low profile head (with external driver cards and only 62mm height) Sealing according to IP54 Chiller

* @395nm measured at the emitting window using an EIT Power Map UUV sensor

** Addressability patented by European patent: EP1599340/ GB2399162, Cross licence with Lumen Dynamics Group Inc. U.S. Patent No. 6,683,421

environment. By combining and integrating ITL's latest XT8 high efficiency array and STEADYcool technologies, the SC LEDcure enables users to achieve higher efficiency and more output in terms of both intensity and dose.

High performance LEDs

SC LEDcure is ready to use immediately after switch on, there is no warm-up or cooling times, which saves both time and energy. LEDs have a long service life of greater than 20.000 hours, and in addition, modules in the SC LEDcure can be easily replaced if required for either upgrade or servicing.



XT8: UV LED Booster

With XT8 UV LED Booster technology, the system reaches an extremely high output and dose which greatly increases cure speeds offering customers a wider choice in all applications. An extended service life is achieved since the semi-conductor chips are not being driven as hard when compared to other products on the market. The 30% boost in efficiency is available for systems fitted with 365, 385, 395 or 405nm or mixed wavelength arrays, first introduced by ITL in 2010.

Warranty

Integration Technology grants a warranty of five years on each XT8 LED module (one shift operation). Older systems can also be upgraded with the XT8 Technology, then this warranty also applies to those modules.

SC is fully scalable in length, so can be tailored to meet even the widest of UV LED requirements in a variety of different applications.

The SC housing comes in steps of 90mm, each step includes up to 3 Modules at 30mm each that can be individually addressed. Within the standard housing any amount of 30mm Modules can be equipped to give the system unbeaten flexibility. Standard lengths are up to 540mm (6x 90mm steps in one housing) but the system can be built greater than 2m in a single housing upon request. Therefore no staggering of UV-LED heads is required to give wide applications a perfect uniformity in output and the most compact footprint.

SC LEDcure is designed as LED head only option. Integration Technology will provide all relevant protocol information required and support potential clients with furnishing their own power supply units. Alternatively



the SC LED cure can be supplied as fully configured package including cables, power supply and chiller (option).

SC HD Series

For high speed application or applications with high dose demand (e.g. low migration inks) Integration Technology is able to provide the SC system in a High Dose (HD) version. The SC HD version includes all the benefits of the SC system, but doubles the amount of UV-LEDs in a single housing allowing either, superfast run speeds or to fully cure inks that need a higher dose in order to cure. In order not to overstress the curing process, the peakpower remains the same, only the dose (Joules/cm²) is doubled. This ensures a smooth but very efficient curing.

SC HD Series (differences to Std. Version)	
Dimension (WxH)	75mm x 157 up to 200mm
Emmission window	54mm Width
Weight	Approx. 1.3kg per 90mm step



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