INTEGRATION TECHNOLOGY

NC SERIES 20W/CM² UV LED
CLASS LEADING COMPACT, HIGH OUTPUT, WATER COOLED UV LED SOLUTIONS

The NC Series is specially designed for extremely small integration spaces with high power requirements and is the first choice when especially powerful Pinning or Full curing is needed.

Slim and compact architecture enables easy integration while the water cooled feature will provide precision high output. By combining and integrating ITL's latest XT8 high efficiency array and STEADYcool technologies, the NC LEDcure enables users to achieve higher efficiency and more output in terms of both intensity and dose.

	NC Series
Wavelength	395nm (Std), 365nm, 385nm, 405nm and mixed wavelengths
Power	20W/cm²*
Dimension (WxH)	20mm x 190mm
Emmission window	14mm Width
Operation Temperature	Up to 45°C depending on humidity level
Cooling water temperature	24-26°C
Weight	Approx. 600g per 90mm step
Cooling	Watercooled with STEADYcool technology
Cable	Up to 12m supply and signal cable (5m Standard)
Protocol	Standard I/O
Addressability	30mm steps**
Power Output	10-100%
Options	• Length >540mm • Housing in 30mm steps

* @395nm measured at the emitting window using an EIT Power Map UVV sensor
** Addressability patented by European patent: EP1599340/ GB2399162, Cross licence with Lumen Dynamics Group Inc. U.S. Patent No. 6,683,421

HIGH PERFOMANCE LEDS
NC 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 NC 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.

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.

NC 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 NC 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. Therfore no staggering of UV-LED heads is required to give wide applications a perfect uniformity in output and the most compact footprint.

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

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

NCX SERIES

For even higher speeds or extended curing demands, Integration Technology is able to provide the NC sytem in a High Power (X) version. The NCX version includes all the benefits of the NC system, but increases the peak power by a further 50%. The NCX series features both, Standard I/O or serial bus connectivity as standard so the lamphead can be operated by either

24V signals, serial bus or both simultanously allowing a seamless integration in the host machine combined with maximum feedback- and operation-control.

NCX Series (differences to Std. Version)	
Power	30W/cm²*
Dimension (WxH)	20mm x 210mm
Protocol	Standard I/O and RS485 serial bus

PINCURE C SERIES

For interstation Pinning with reduced powerlevel, the traditionally aircooled Pincure Z system is also available as watercooled version with all benefits of its aircooled sister.

Especially in very compact machines and dense installation areas, the watercooling will eliminate heating up of printbars and auxiliaries by remote cooling. There will be no airflow inside the machine helping the heatmanagement to run stable all the time.

The proven optics (which eliminates the risk of UV light damage to the print head nozzle plates) has been further enhanced and in Pincure C is now housed within a clever design which prohibits media contact and contamination to the lenses.

NCX Series (differences to Std. Version)	
Power	30W/cm²*
Dimension (WxH)	20mm x 190mm
Emmission window	7mm with focussing lens
Protocol	Standard I/O and RS485 serial bus
Addressability	40mm steps**
Options	• Smart hub • DC Powersupply