

Cost effective, High Powered UV LED

R&D developments have provided ITL with an industry-leading compact, cost effective yet high performance air cooled UV LED solution; the MZ LED. Specifically targeted at small to medium wide format graphics printers and digital industrial markets. It is particularly useful where space and form factor can be an issue.

MZ Standard Features	
Wavelength	395nm (Std), 365nm, 385nm, 405nm, Mixed
Power	6 W/cm ² *
Dimensions (WxLxH)	30mm x 82mm x 120mm
Emmission window	80mm x 25mm
Operation Temperature	<40°C
Weight	320gms per Head
Cooling	Aircooled with changeable fan filters
Cable	up to 15m supply cable (highflex), up to 8 heads can be daisy chained
Protocol	Standard I/O or serial bus
Addressability	40mm steps **
Options	Smart hub DC Powersupply focussing Front Lens

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

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

The compact and lightweight architecture specifically matches direct to product printing as well as other emerging technologies.

The MZ offers the highest degree of flexibility. With both standard I/O or serial bus interfaces as standard, the RS485 control is capable of driving up to two 320mm or one 640mm versions, greatly reducing the cabling needed. Alternatively the MZ can also

be run through a more traditional digital I/O set of controls. By mounting lamp units end to end MZ can be scaled to any required length.

As a result of the very latest semiconductor packaging, the peak intensity of 6W/cm² delivers an unbeatable class leading dose, outperforming other products of this type with much higher indicated peak intensities. MZ is also an ideal solution for industrial inter colour curing or high speed pinning where the lampheads do not need to be mounted directly next to a print head. Alternate the emitting window can be equipped with a focussing lens for reduced scattering light.

MZ can be provided as a total solution including Power Supply, 'Smart Hub' and the required interconnecting cables or as components only.

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.



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

All of ITL's extensive UV LED product range have a life expectancy of 20,000 + operating hours. As standard, ITL UV LED curing solutions are fitted with field



replaceable modules offering extended service life and is covered by a comprehensive warranty backed by global support direct from Integration Technology and through its strategic partner IST Metz.

For high speed applications requiring a higher peak intensity or greater dose, ITL offer a variety of final cure UV-LED Systems.



MZ 040

The MZ 040 has been designed and developed as an ultra compact lamp unit only option. This allows developers to furnish their own electronic drive systems, although as a solutions provider ITL can supply optional ancillary electronic drivers and will always support the development of such applications. Output performance to match the most demanding scanning platforms, even when operating at speeds in excess of 2m/sec.



MZF Version

The MZF version has the same modular construction as the standard version, but is fitted with a Lens to redirect the lateral divergence of the UV light emitted from the array vertically towards the media. This

MZ 040 Standard Features

Wavelength	395nm (Std), 365nm, 385nm, 405nm, Mixed
Power	6 W/cm ² *
Dimensions (WxLxH)	25mm x 67mm x 72mm
Emission window	40mm x 25mm
Operation Temperature	<40°C
Weight	135gms per Head
Cooling	Aircooled
Protocol	Customers to furnish their own electronic driver control and power
Options	Total solutions

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

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

creates a High Power Pinning option that is suitable for White inks on single pass inkjet printers or for use wherever restricted spread of UV light is required.

Head Office: Integration Technology Ltd., Heyford Park, Upper Heyford, Oxfordshire, OX25 5HA, United Kingdom
Tel.: +44 (0) 1869 233611, Fax: +44 (0) 1869 233599, mail@uvintegration.com

**Integration Technology
North America**
dbohn@uvintegration.com

**Integration Technology
Korea**
jyoona@uvintegration.com

**Integration Technology
(China) Ltd.**
syang@uvintegration.com

**Integration Technology
Japan**
ykatsuta@uvintegration.com

**Integration Technology
Latin America**
edsel@uvintegration.com.br

For more information: www.uvintegration.com