

ENIGMA XL STRIP-LIGHT

Version 2026-03-10

365nm UV-A LED Strip-Light

The Enigma XL UV-A Strip-Light features 20 LED emitters giving great performance, with no hot spots in the beam pattern and is suited for a wide range of common NDT applications. These include background UV illumination when mounted over penetrant wash stations to check for adequate wash-off or above MPI bench units for inspection. The unit features integral mounting brackets and is supplied with a mains power supply with UK 13A plug as standard.

Key Features

Peak Irradiance¹	>5,000 $\mu\text{W}/\text{cm}^2$ @ 380mm
Peak Irradiance²	>1,600 $\mu\text{W}/\text{cm}^2$ @ 1000mm
Irradiated Area	>1200 x 1000mm @ 1000mm
Peak Wavelength	365nm \pm 5nm



Technical Information

Meets or exceeds all requirements of ISO 9934 and ISO 3059 and many common magnetic particle and liquid penetrant inspection standards - Suitable for almost any NDT application.

Ideal for background illumination over penetrant wash stations and MPI bench units. But also suitable for crime laboratories / forensics, medical laboratories and applications needing regulated UV-A light sources.

Dimensions of 1015 x 55 x 44mm - The length of the unit lending itself to mounting over work stations for great coverage.

IP65 Ingress Protection rating - The Enigma XL Strip-Light has the highest level of protection against dust (the 6) and protection from low pressure water jets from any direction.

Robust and suitable for almost any industrial environment.

365nm peak wavelength - UV-A light with a narrow beam spectrum giving optimal fluorescence for industrial applications.

Energy efficient LED's - Longer life, safer and more environmentally friendly than Mercury vapour discharge lamps and tube lighting fixtures.

UV source life span of 15,000 hours ON (R70).

Integral hinge mounting brackets with 180 degree adjustment for easy installation.

Made in the UK and CE / UKCA marked as standard.

Johnson and Allen Ltd

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Product Data

Emission Information	
Peak Irradiance (@ 380mm / 15 in)	> 5,000 $\mu\text{W}/\text{cm}^2$
Peak wavelength	365 nm \pm 5nm
Typical Irradiated Area (beam profile @ 1000mm / 39 in)	>1200 x 1000mm > 350 $\mu\text{W}/\text{cm}^2$ UV-A intensity
Full Width @ Half Max. (FWHM)	\leq 15 nm
Longest Wavelength @ Half Max. (LWHM)	\leq 377 nm
\pm Width @ Half Max.	$\leq \pm$ 10 nm
Full Width @ 10% Max. (FW10%)	\leq 30 nm
\pm Width @ 10% Max.	$\leq \pm$ 15 nm
Wavelength Drift (@ elevated temp.)	\leq 5 nm
Visible Light	<20 lux
General Information	
Dimensions	1015 x 55 x 44mm (approx.)
Operating Temp.	5-49 °C
Voltage (input)	100 to 240 V AC @ 50/60 Hz
Weight	1.0kg (approx.)
Warranty	12 Months

Standard Compliance

General NDT UV-A Specifications	Fluorescent Penetrant Specifications	Fluorescent Magnetic Particle Specifications
ISO 3059	ASTM E1417 ISO 3452	ASTM E1444 ISO 9934

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