

PSL

Energy Efficient 12V Laser Fibre Illuminator

The PSL-S500 LASER Fibre Illuminator is an energy-efficient light source for fibre lighting applications requiring an illuminated length of up to 150m with intrinsic safety.

PSL-S500

PhotoSynergy's Diode Pumped Solid State (DPSS) green lasers are ideal for applications in display and emergency lighting, innovative graphic displays, industrial use, reprographics, particle sizing, medical and R&D. Consuming less than 60W, our products are also perfect replacements for older technology gas lasers, providing advantages in cost, size, reliability and electrical efficiency.

DPSS lasers offer a highly efficient method of generating laser output in the near infra-red and (using suitable non-linear crystals) in the visible region. Our green laser produces high spatial quality beams that have "M Squared" values of less than 1.2.

All PhotoSynergy DPSS lasers are constructed around a very rugged and compact optical resonator whose design draws upon the extensive experience within PhotoSynergy of building laser products for defence applications. Production is in strict accordance with BS EN ISO9000:2000.

www.photosynergy.co.uk

PSL-S500 Up to 150 M

Big Ben 96.3 M

Illuminated Fibre Length



SPECIFICATIONS:

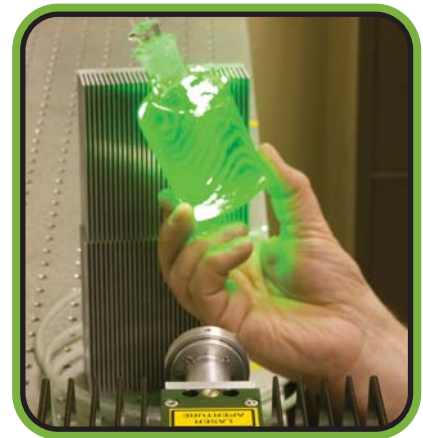
Energy Efficient 12V Laser Fibre Illuminator

Green Laser S500 Series

Wavelength	S500m
Laser Power	300mW
Power Stability	< $\pm 10\%$
Beam Parameter	< 2mm.mrad
Spatial Mode	TEM00 ($M2 < 3$)
Polarisation	Random
Electrical Power Input	< 60W
Turn-on Time	< 5 seconds (to 80% specified power)
Laser Head Dimensions	37 x 37 x 138mm
Laser Head Weight	350g

Green Laser ASS500 Series AS

Wavelength	S500m
Laser Power	200mW
Power Stability	< $\pm 5\%$
Beam Parameter	< 0.85mm.mrad
Spatial Mode	TEM00 ($M2 < 1.2$)
Polarisation	Random
Electrical Power Input	< 60W
Turn-on Time	< 5 seconds (to 80% specified power)
Laser Head Dimensions	37 x 37 x 138mm
Laser Head Weight	350g



ABOUT PHOTOSYNERGY:

PhotoSynergy Limited is a company formed by the University of St Andrews, the oldest university in Scotland. It offers customers a unique opportunity to realise the combined benefits of co-operation between a leading photonics research institute and an established supplier of high quality photonics products. The University is an acknowledged world leader in the field of photonics. PhotoSynergy is the logical progression of that work and co-operation.

PhotoSynergy brings to market advanced technology originating from a world-class academic institution.

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