



BlueLyte

premier & acculase modulatable/ machine vision lyte-mv/dragonfly green/
imatronic/laserlyte/laserlyte-flex/guideline/hawkeye detector/
firefly green/firefly green mini/thread mountable cameo/bluelyte/survelase/
survelase maxi/beta tx/**bluelyte dpss**/varilite lc/dca/microblock/accessories/
projection lenses/energy efficient/customised solutions.

BlueLyte DPSS

The BlueLyte DPSS is a temperature stabilized 473nm DPSS laser with powers from 10mW up to 50mW.

The laser provides reliable and stable operation over a wide operating temperature range. A small circular beam is emitted with a exit diameter of approx 0.8mm with a low 1 mrad beam divergence. Models are available both with and without in-built photo-detector depending on the level of power stability required. The model without photodetector is also modulatable up to 1KHz with a TTL 5V signal. The laser comes complete with a 110/220 Vac mains power supply which provides simple plug and play operation.

Competitively priced the BlueLyte is ideal for a range of applications including Raman Spectroscopy, Biotechnology, Entertainment & Display Systems.



Specifications

Mechanical Specification	10mW	20mW	50mW	10mW (S)	20mW (S)
Dimensions (HxWxL)	46.2mm x 72mm x 156mm				
Housing	Anodized Aluminium				
Optical Specification					
Beam Power (mW)	10	20	50	10	20
Wavelength (nm)	473				
Intensity Distribution	TEM ₀₀				
Beam Diameter (1/e ²)	0.8 ± 0.2mm	0.8 ± 0.2mm	1.0 ± 0.2mm	0.8 ± 0.2mm	1.0 ± 0.2mm
Beam Divergence (mrad)	1.0 ± 0.2				1.2 ± 0.2
Warm Up Time To 75% of Full Power	< 15 minutes				
Power Stability*	< ±5%			< ±2.5%	< ±2.5%
In-built Photodiode	No			Yes	
Polarization Ratio	>100:1 Vertical				
Residual IR	<0.2%				
Environmental Specifications					
Operating Case Temperature	+15°C to +35°C				
MTTF at 25°C	>5000 Hours				
Electical Specifications					
Operating Current (ma)	750	1300			
Power Supply	Mains Powered Adaptor Supplies With Laser				
Control Modulation (via power supply)	1 KHz TTL 5V			N/A	
NOTES * Ambient temperature ±2°C over 2 hours All specifications are typical @ 25°C					

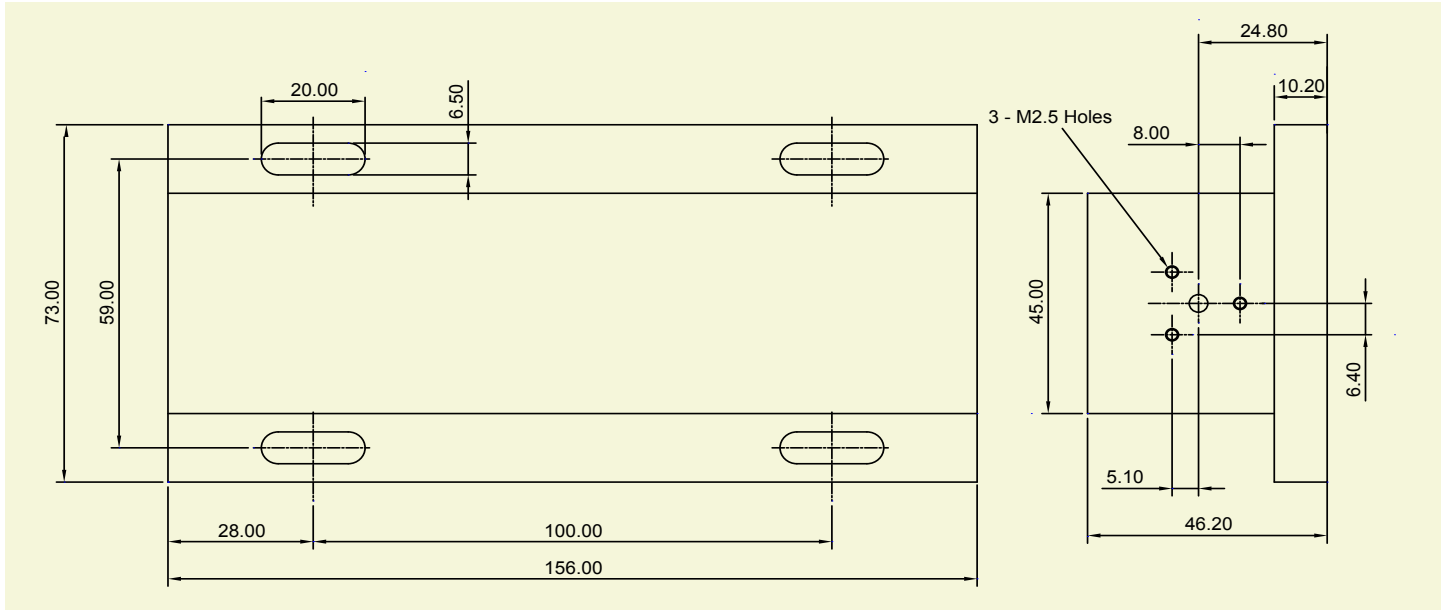
110/240 AC Power Supply

The 110/220Vac mains operated power supply controller provides a simple plug and play interface to the Bluelyte DPSS laser. The controller unit provides the appropriate control voltage/current to the laser and also the in-built thermo electric (TE) heater/cooler. On the rear side of the controller is a BNC connector which may be used to modulate the Bluelyte (standard version without photo-detector) at frequencies up to 1KHz with a TTL 5V signal.

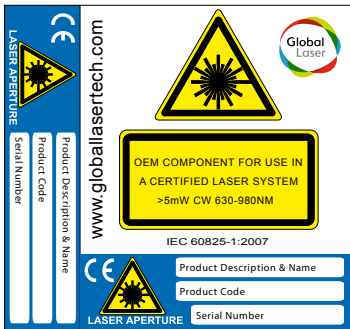


Mechanical Dimensions

BlueLyte DPSS



Laser Safety



OEM Laser Label

Our lasers are compliant to IEC60825 2007 standards. The lasers fall within one of the following classifications depending on power and wavelength.

Quality & Warranty.

The BlueLyte DPSS range is supplied with a 12 month parts and labour warranty. Our manufacturing operations are certified to ISO9001.

Please note: Global Laser reserve the right to change descriptions and specifications without notice.



For further information about any of our products please contact your local distributor or you can contact Global Laser in the UK. Your Local Distributor Is:

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