

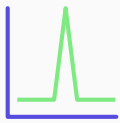
532

Single frequency CW DPSS laser



Our 532 laser delivers unrivalled single frequency performance at market-leading output powers from a small footprint — making it suitable for integration with existing systems and a wide range of applications. The 532 provides outstanding beam characteristics, high output stability, extremely low noise, and a versatile software package.

Key features



Ultra-narrow linewidth
 ≤ 0.5 MHz



High power stability
 $\leq 2.0\%$ over 8 hours



High spectral stability
 ± 1 pm over 8 hours



Excellent beam quality

Applications

Holography, imaging, raman spectroscopy, semiconductor, metrology, flow cytometry, brillouin scattering, interferometry, optical manipulation ... and more.

Specifications

Output beam parameters:

Output power	500, 750, or 1000 mW*
Wavelength	532 nm
Spectral bandwidth	≤ 0.5 MHz
Spatial mode	TEM ₀₀
Spectral stability	± 1.0 pm (over 8 hour operation)
Coherence length	> 100 m
Output power stability	$\leq 2.0\%$ (over 8 hour operation)
Output power noise	$\leq 0.1\%$ RMS (10 Hz – 10 MHz)
Beam divergence	≤ 1 mrad, diffraction limited
Beam diameter at output aperture	0.7 – 1.1 mm
Beam pointing stability	≤ 5 μ rad / °C
Polarisation ratio	$\geq 100:1$, vertical

Integration features:

Plug-in USB connectivity	Combined heatsink
Versatile control software	Remote diagnostic support

Laser head dimensions:

L x W x H	242 x 150 x 100 mm
Beam height	65 mm

Environmental conditions:

Ambient temperature range	18 – 30 °C
Laser head interface stability	± 1.5 °C
Storage	0 – 50 °C
Humidity	5 – 95%, non-condensing

Optional accessories:

Heatsink	Fan-assisted
	Water-cooled with thermoelectric chiller
External power control module	0 – 100%, continuous
Tuning range, mode-hop free	25 – 50 GHz

Low power alignment beam mode

* Other output powers available on request

Contact

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Designed &
manufactured
in the UK



AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT
MAX. POWER: 1000 mW
(IEC 60825-1)