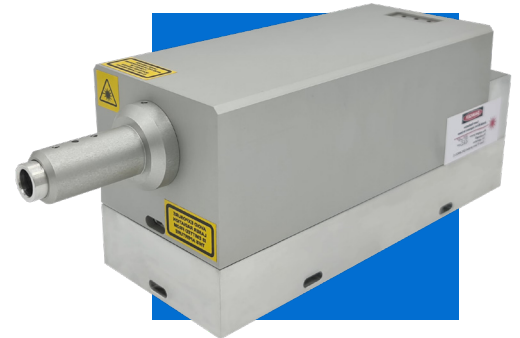


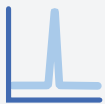
Solo 640

Narrow Linewidth CW DPSS Laser



The Solo 640 Narrow Linewidth Laser Series delivers ultra-stable output power and wavelength, as well as excellent beam quality, from a small footprint — making it suitable for integration with existing systems and a wide range of applications. The Solo 640 provides outstanding beam characteristics, high output stability, extremely low noise, and versatile software package.

KEY FEATURES



Narrow Linewidth
≤ 0.1 nm



Ultra-Stable Output
± 1.0 % over 8 hours



Designed for Integration



Excellent Beam Quality

APPLICATIONS

Raman Spectroscopy - Optical Manipulation -
Flow Cytometry - Brillouin Scattering -
Interferometry - Fluorescence - Microscopy,
and more.

Specifications

Output Beam Parameters:

Output Power	Up to 2.0 W*
Wavelength	640 nm
Spectral Bandwidth	≤ 0.1 nm
Spatial Mode	TEM ₀₀
Output Power Stability	± 1.0 % (over 8 hour operation)
Output Power Noise	≤ 0.1 % RMS (10 Hz – 10 MHz)
Beam Divergence	≤ 0.5 mrad
Beam Diameter at Output Aperture	0.6 - 1.0 mm
Polarisation Ratio	≥ 100:1, vertical

Integration Features:

Plug-In USB Connectivity
Versatile Control Software
Remote Diagnostic Support
Heatsink Options
Fibre-Coupling Options

Laser Head Dimensions:

L x W x H	207 x 80 x 65 mm
Beam Height	45 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 as Standard
	Water-Cooled with Thermoelectric Chiller**

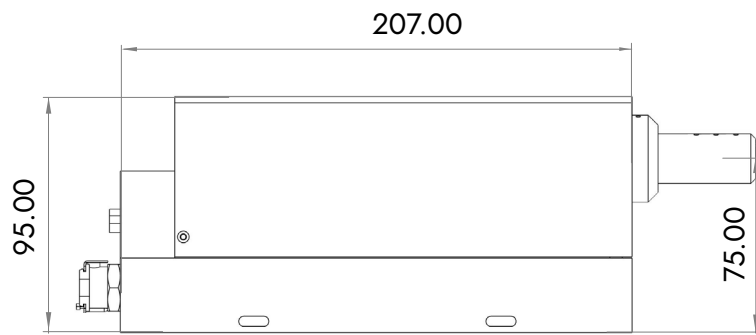
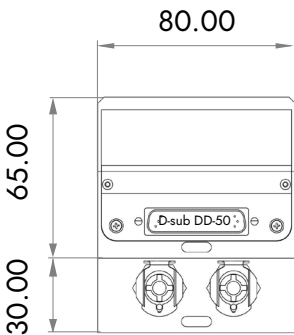
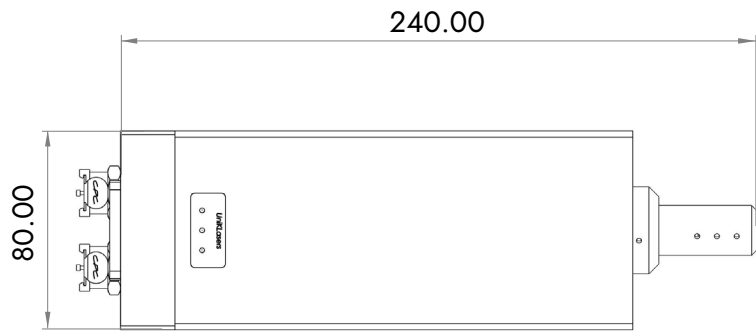
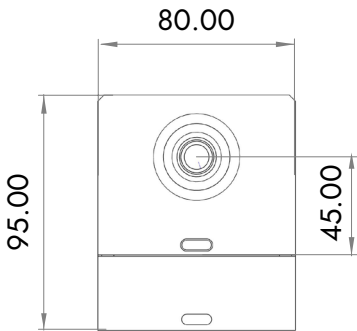
Low Power Alignment Beam Mode

* Other output powers available on request

** Available at additional cost

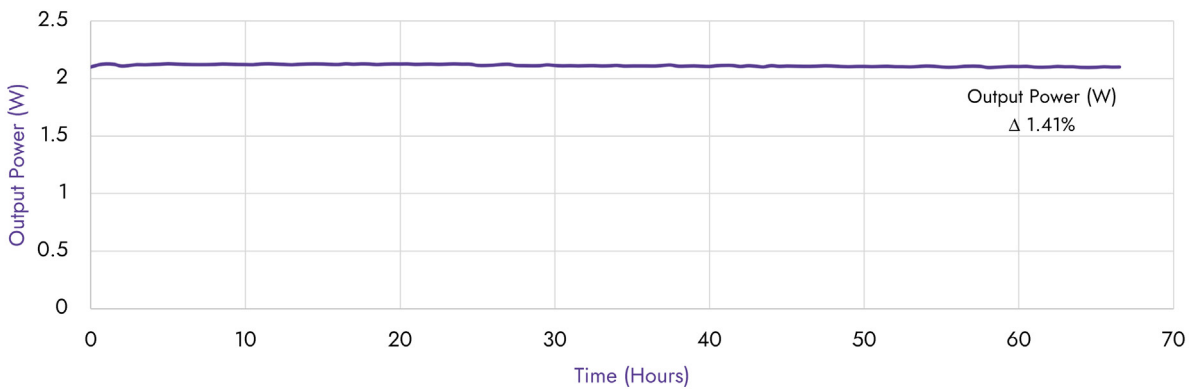
Laser and Heatsink Dimensions

240 x 80 x 95 mm



Performance Data

Longterm Output Power Stability



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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)