UNIKLASERS

DATA SHEET
NL DPSS LASER SERIES

RAMAN — HOLOGRAPHY — LIFE SCIENCES — SEMICONDUCTORS — QUANTUM

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

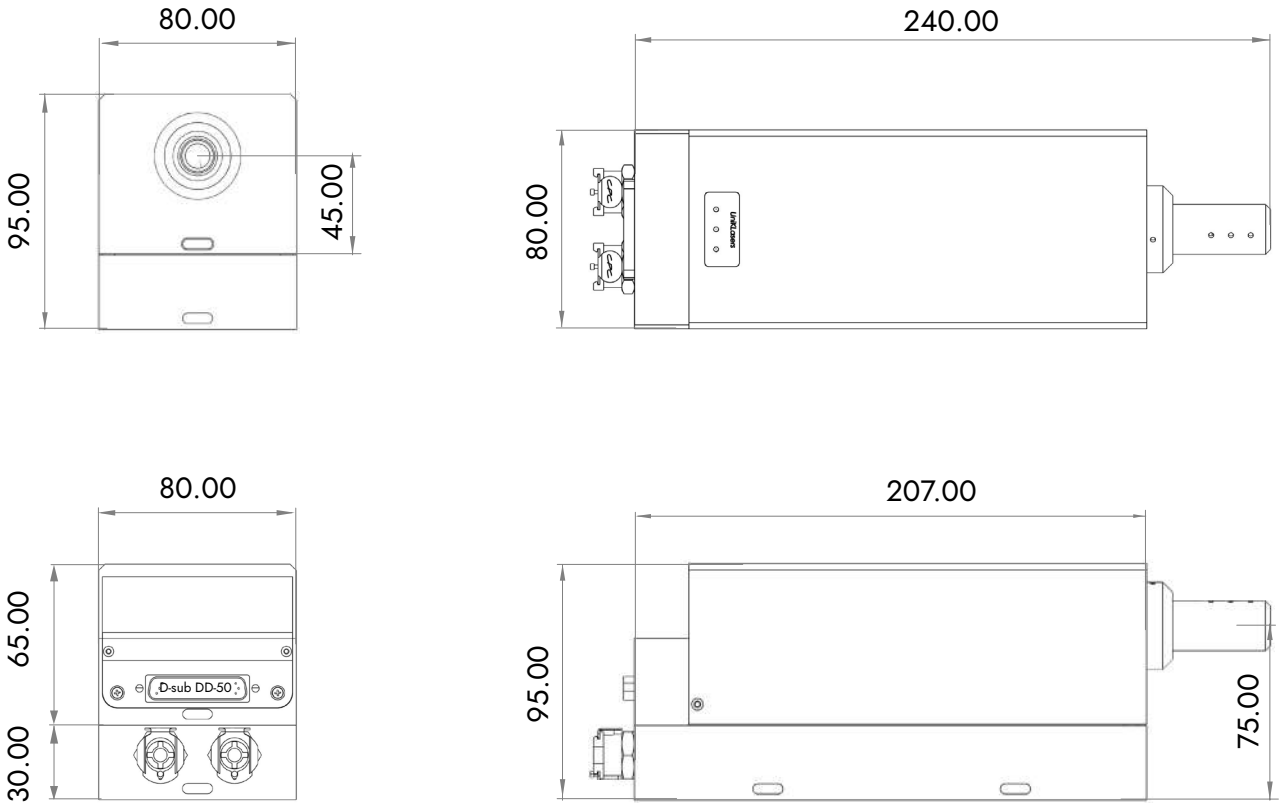
Raman Spectroscopy - Optical Manipulation - Flow Cytometry - Brillouin Scattering - Interferometry - Fluorescence - Microscopy, and more.

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

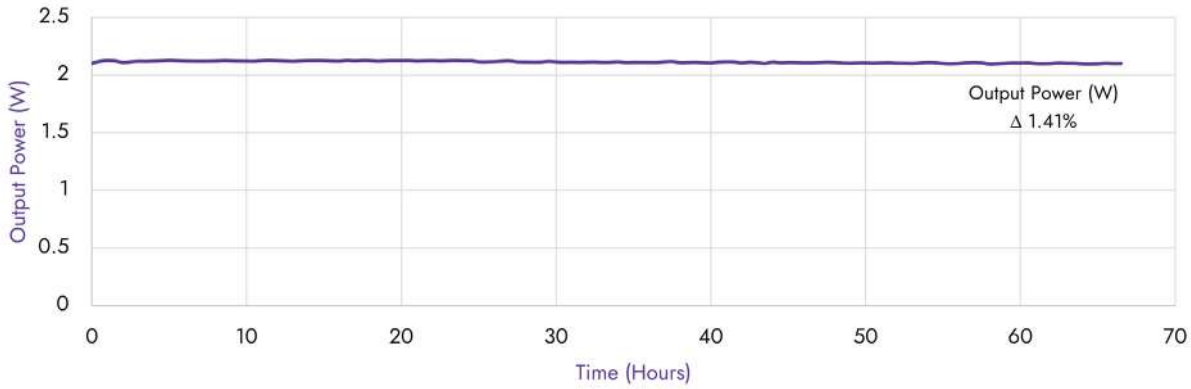
Laser and Heatsink Dimensions

240 x 80 x 95 mm



Performance Data

Longterm Output Power Stability



CONTACT US

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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)