

Skylark 640 Single frequency CW C-DPSS VIS laser

The Skylark 640 laser delivers unrivalled continuous wave single frequency performance at market-leading output powers from a compact footprint. The 640 NX provides ultra-stable output and outstanding beam characteristics over a long coherence.

Key features



Ultra-narrow linewidth < 0.5 MHz



High spectral stability < 1 pm over 8 hours



High power stability < 1% over 8 hours



Integrated design Easy to install

Applications

Holography, holographic imaging, holographic art, holographic interferometry, holography research, Raman spectroscopy, fluorescence, metrology, flow cytometry. brillouin scattering, interferometry, optical manipulation, and more.

Specifications

Output beam parameters

Output power	up to 1,500 mW
Wavelength	640 nm
Spectral bandwidth	≤ 0.5 MHz
Spatial mode	TEM00
Spectral stability	± 0.2 pm (over 8 hour operation)
Coherence length	> 100 m
Output power stability	≤ 1.0 % (over 8 hour operation)
Output power noise	≤ 0.1 % RMS (10 Hz – 10 MHz)
Beam divergence	1.0 mrad, diffraction limited
Beam diameter at output aperture	0.8 - 1.2 mm
Beam pointing stability	≤ 5 µrad/°C
Laser head dimensions	
LxWxH	210 x 100 x 80 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	0 - 50 %, non-condensing
Laser head	Hermetically sealed
Integration features	
Plug-in USB Connectivity	Combined Heatsink
Versatile Control Software	Remote Diagnostic Support
Optional accessories	
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Heatsink	Fan-assisted air cooled or,
-	Fan-assisted air cooled or, Water-cooled thermoelectric chiller

12 month warranty

For laser head and controller