

# **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	
-	
Heatsink	Fan-assisted air cooled or,
-	Fan-assisted air cooled or, Water-cooled thermoelectric chiller

12 month warranty

For laser head and controller