Skylark Lasers

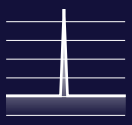
Data sheet
SLM DPSS laser

Skylark 532 NX

Single frequency CW C-DPSS VIS laser

The Skylark 532 NX laser offers C-DPSS CW single frequency operation, delivering up to 2,000 mW of ultra-stable wavelength and power intensity. The Skylark 532 NX is spectrally pure with extremely low noise from a compact footprint.

Key features



Ultra-narrow linewidth
< 0.5 MHz

High spectral stability
< 1 pm over 8 hours

High power stability
< 2% over 8 hours

Integrated design
Easy to install

Applications

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

Specifications

Output beam parameters

Output power	up to 2,000 mW
Wavelength	532 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	0.7 - 1.1 mm
Beam pointing stability	≤ 5 µrad/°C

Laser head dimensions

L x W	170 x 95 mm
Beam height	51.7 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,
	Water-cooled thermoelectric chiller
External manual power control	0 - 100 %, continuous

Warranty

12 month warranty	For laser head and controller