

Skylark 349 NX

Single frequency CW C-DPSS
 UV laser

The Skylark 349 NX laser offers C-DPSS CW single frequency UV operation, delivering up to 400 mW of ultra-stable intensity and wavelength. The Skylark 349 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

Semiconductor inspection, wafer fabrication, lithography, confocal microscopy, Raman spectroscopy, biomedical / bioengineering, flow cytometry, fluorescence, disc mastering, diffraction grating mastering and more.

Specifications

Output beam parameters

Output power	up to 400 mW
Wavelength	349 nm
Spectral bandwidth	≤ 0.5 MHz
Spatial mode	TEM ₀₀
Spectral stability	± 0.2 pm (over 8 hour operation)
Coherence length	> 100 m
Output power stability	$\leq 2.0\%$ (over 8 hour operation)
Output power noise	$\leq 0.1\%$ RMS (10 Hz - 10 MHz)
Beam divergence	1.0 mrad, diffraction limited
Beam diameter at output aperture	0.5 - 1.0 mm
Beam pointing stability	≤ 5 μ rad/ $^{\circ}$ C

Laser head dimensions

L x W	257 x 150 mm
Beam height	54.2 mm

Environmental conditions

Ambient temperature range	18 - 30 $^{\circ}$ C
Laser head interface stability	± 1.5 $^{\circ}$ C
Storage	0 - 50 $^{\circ}$ 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
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