

SKYLARK 349 NX

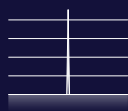
SINGLE FREQUENCY CW DPSS UV LASER

The Skylark 349 NX CW DPSS laser provides ultra-stable single frequency UV light at 349 nm for demanding and emerging applications.

Designed for consistent long-term performance, delivering up to 400 mW of ultra-stable output, low noise, and spectral purity.



Key features



Ultra-narrow linewidth
 ≤ 500 kHz



Ultra-low power noise
 ≤ 0.3 % RMS (10 Hz - 10 MHz)



Ultra-stable wavelength
 ± 0.2 pm over 8 hours



Ultra-stable output power
 ≤ 2.0 % over 8 hours

Applications

UV Raman spectroscopy, semiconductor defect detection, wafer inspection, wide band gap materials characterisation, 2D materials, laser interference lithography, diffraction grating fabrication, optical grating mastering, laser interferometry, photoluminescence (PL), HeCd gas laser replacement.

Get in touch

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Reveal the unseen,
detect the imperceptible,
measure the unknown.



Specifications

Output beam parameters

Output power	up to 400 mW
Wavelength	349 nm
Spectral bandwidth	≤ 500 kHz
Spatial mode	TEM ₀₀
Spectral stability	± 0.2 pm (over 8 hour operation)
Coherence length	> 100 m
Output power stability	≤ 2.0 % (over 8 hour operation)
Output power noise	≤ 0.3 % RMS (10 Hz - 10 MHz)
Beam divergence	1.0 mrad, diffraction limited
Beam diameter at output aperture	1.0 - 1.5 mm
Beam pointing stability	≤ 5 μ rad/°C

Environmental conditions

Ambient temperature range	18 - 30 °C
Laser head interface stability	± 1.5 °C
Storage	0 - 50 °C
Humidity	0 - 50 %, non-condensing

Dimensions

Laser head (L x W x H)	325 x 200 x 90 mm
Beam height	59.0 mm

