

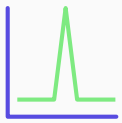
349 NX

Single frequency CW UV laser



The 349 NX laser platform offers DPSS single-frequency operation within the UV wavelength range, with up to 200 mW power, outstanding beam characteristics, high output stability, extremely low noise, small footprint, and a versatile software package — making it suitable for a wide range of applications and system integration.

Key features



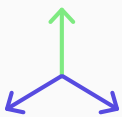
Ultra-narrow linewidth
No chromatic dispersion



High power stability
Consistent illumination



High spectral stability
Consistent measurement



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, high precision optic ... and more.

Specifications

Output beam parameters:

Output power	up to 200 mW
Wavelength	349 nm
Spectral bandwidth	≤ 0.5 MHz
Spatial mode	TEM ₀₀
Spectral stability	± 1.0 pm (over 8 hour operation)
Coherence length	> 100 m
Output power stability	≤ 2.0 % (over 8 hour operation)
Output power noise	≤ 0.1 % RMS (10 Hz – 10 MHz)
Beam divergence	≤ 2.5 mrad, diffraction limited
Beam diameter at output aperture	0.6 – 1.2 mm
Beam pointing stability	≤ 5 μrad / °C

Integration features:

Plug-in USB connectivity	Combined heatsink
Versatile control software	Remote diagnostic support

Laser head dimensions:

L x W x H	240 x 150 x 100 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	5 – 95 %, non-condensing
Laser head	Hermetically sealed

Optional accessories:

Heatsink	Fan-assisted
	Water-cooled with thermoelectric chiller
External manual power control	0 – 100 %, continuous

Warranty:

12 month warranty	For laser head and controller
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Contact

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Designed &
manufactured
in the UK



AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT
MAX. POWER: 1000 mW
(IEC 60825-1)