

# 349 NX

## Single frequency CW C-DPSS UV laser

The 349 NX laser offers C-DPSS CW single frequency UV operation, delivering up to 200 mW output power, outstanding spectral properties, ultra-stable output, and extremely low noise from a compact footprint and a versatile software package — making it suitable for system integration and a wide range of demanding applications.

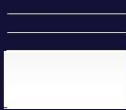
### Key features



**Ultra-narrow linewidth**  
 $< 0.5$  MHz



**High spectral stability**  
 $< 0.2$  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 200 mW
Wavelength	349 nm
Spectral bandwidth	$\leq 0.5$ MHz
Spatial mode	TEM00
Spectral stability	$\pm 0.2$ 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	0.6 - 1.2 mm
Beam pointing stability	$\leq 5$ $\mu$ rad/ $^{\circ}$ C

#### 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 $^{\circ}$ C
Laser head interface stability	$\pm 1.5$ $^{\circ}$ 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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