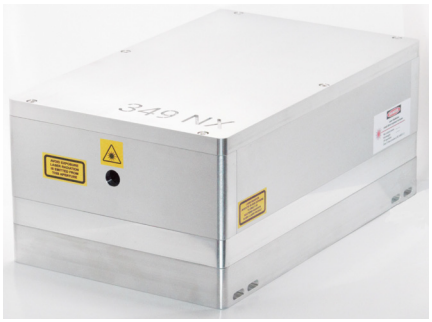
Skylark

Data sheet
SLM DPSS laser

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
< 0.5 MHz

High power stability
<2% over 8 hours

High spectral stability
< 1 pm 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	≤ 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 air-cooled or
	Water-Cooled with Thermoelectric Chiller
External Manual Power Control	0 – 100 %, continuous
Warranty:	
12 Month Warranty	For laser head and controller