

349_{NX}

Single-frequency CW UV laser



The 349_{NX} laser platform offers DPSS CW 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 Optics - 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:

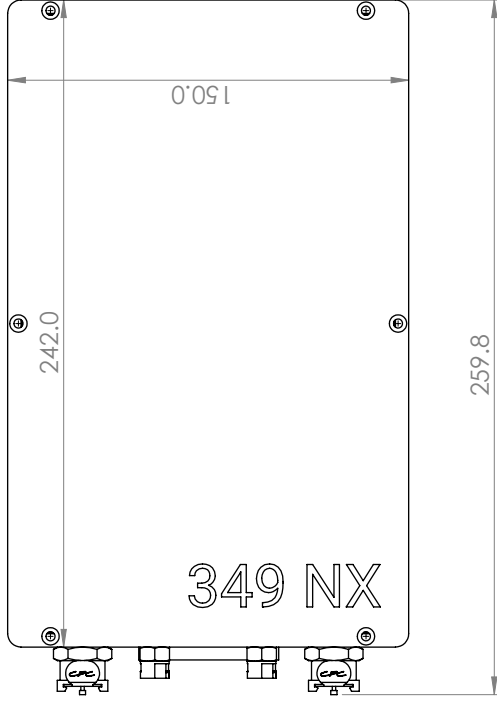
Ambient Temperature Range	18 – 30 °C
Laser Head Interface Stability	± 1.5 °C
Storage	0 – 50 °C
Humidity	5 – 95 %, non-condensing
Laser Head	Hermetically sealed

Optional Accessories:

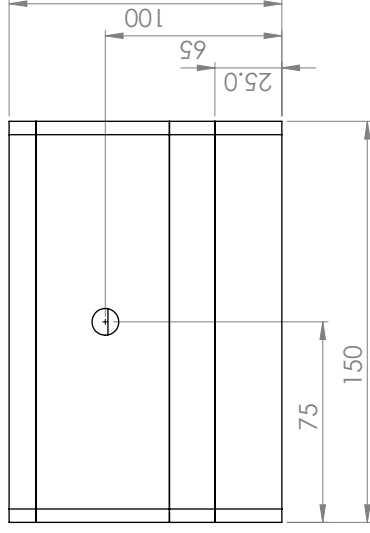
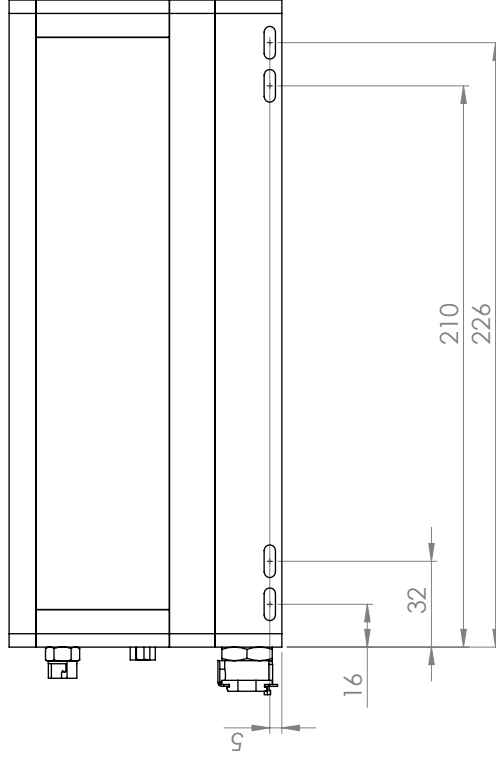
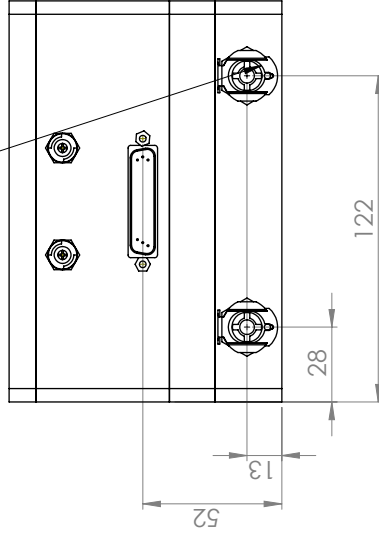
Heatsink	Fan-Assisted air-cooled or Water-Cooled with Thermoelectric Chiller
External Manual Power Control	0 – 100 %, continuous

Warranty:

12 Month Warranty	For laser head and controller
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2x 3/8" NPT coupling
(tubing provided)



Dimensions in mm
General tolerances: per DIN/ISO 2768-H
Form/Position tolerances: per DIN/ISO 1101
Edges: per DIN/ISO 6784

UnikLasers Ltd Reg Office: 5th Floor, 125 Princess Street Edinburgh, EH1 4AD	SCALE: 1:2 	STOCK NUMBER: 349 NX - 200
	MATERIAL:	TITLE:
PROJECT:	DWG NO:	REVISION: A0 SHEET OF 2

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