

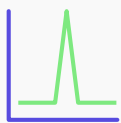
320 NX

Single-frequency CW UV laser



The 320 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



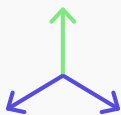
Ultra-narrow linewidth
 $< 0.5 \text{ MHz}$



High power stability
 $< 2\%$ over 8 hours



High spectral stability
 $< 1 \text{ pm}$ 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	320 nm
Spectral Bandwidth	$\leq 0.5 \text{ MHz}$
Spatial Mode	TEM ₀₀
Spectral Stability	$\pm 1.0 \text{ pm}$ (over 8 hour operation)
Coherence Length	$> 100 \text{ m}$
Output Power Stability	$\leq 2.0 \%$ (over 8 hour operation)
Output Power Noise	$\leq 0.1 \%$ RMS (10 Hz – 10 MHz)
Beam Divergence	$\leq 2.5 \text{ mrad}$, diffraction limited
Beam Diameter at Output Aperture	0.6 – 1.2 mm
Beam Pointing Stability	$\leq 5 \mu\text{rad}/^\circ\text{C}$

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	$\pm 1.5 \text{ }^\circ\text{C}$
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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