

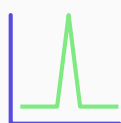
# 320 NX

## 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



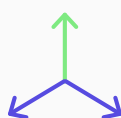
**Ultra-narrow linewidth**  
No chromatic dispersion



**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	320 nm
Spectral bandwidth	≤ 0.5 MHz
Spatial mode	TEM <sub>00</sub>
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)