

# Skylark 320 NX

Single frequency CW C-DPSS  
 UV laser

The Skylark 320 NX laser offers C-DPSS CW single frequency UV operation, delivering up to 200 mW output power with outstanding spectral properties, ultra-stable output, and extremely low noise from a compact footprint.

## Key features



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



**High spectral stability**  
 $< 1$  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	320 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	0.5 - 1.0 mm
Beam pointing stability	$\leq 5$ $\mu$ rad/ $^{\circ}$ C

### Laser head dimensions

L x W	257 x 150 mm
Beam height	54.2 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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