

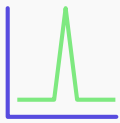
# 640 NX

## High-power SLM CW DPSS laser



Our 640 nm laser delivers unrivalled single frequency performance at market-leading output powers from a small footprint – making it suitable for integration with existing systems and a wide range of applications. The 640 NX provides outstanding beam characteristics, high output stability, extremely low noise, and a versatile software package.

### Key features



Ultra-narrow linewidth  
 $< 0.5$  MHz



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



High spectral stability  
 $< 1$  pm over 8 hours



Excellent beam quality

### Applications

Holography, imaging, raman spectroscopy, semiconductor, metrology, flow cytometry brillouin scattering, interferometry, optical manipulation ... and more.

### Specifications

#### Output Beam Parameters:

Output Power	up to 1500 mW
Wavelength	640 nm
Spectral Bandwidth	$\leq 0.5$ MHz
Spatial Mode	TEM <sub>00</sub>
Spectral Stability	$\pm 1.0$ 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	$\leq 2.5$ mrad, diffraction limited
Beam Diameter at Output Aperture	0.6 – 1.2 mm
Beam Pointing Stability	$\leq 5$ $\mu$ rad/°C

#### Integration Features:

Plug-In USB Connectivity	Combined Heatsink
Versatile Control Software	Remote Diagnostic Support

#### Laser Head Dimensions:

L x W x H	210 x 100 x 80 mm
Beam Height	65 mm

#### Environmental Conditions:

Ambient Temperature Range	18 – 30 °C
Laser Head Interface Stability	$\pm 1.5$ °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
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External Manual Power Control	0 – 100 %, continuous
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#### Warranty:

12 Month Warranty	For laser head and controller
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