



## **Key features**



**Ultra-narrow linewidth** < 0.5 MHz



**Ultra-stable wavelength** < 0.2 pm over 8 hours



**Ultra-stable power output** < 2% over 8 hours



**Ultra-low power noise** < 0.1 % RMS (10 Hz - 10 MHz)



**Integrated design** Easy to install

Skylark NX lasers deliver ultra-stable single frequency continuous wave performance from a compact diode-pumped solid-state (C-DPSS) platform.

Our integrated monolithic design enables the production of the highest output power on a small footprint — combining the superior optical properties of solid-state lasers with the small form-factor, high-efficiency operation of diode lasers.

Outstanding beam characteristics, high output stability, and extremely low noise make Skylark NX lasers perfect for demanding and emerging applications in Raman spectroscopy, holography, photoluminescence, lithography, flow cytometry, and quantum technology development.

## **Integration features**

Plug-in USB connectivity Versatile control software Integrated heatsink Remote diagnostics

## **Options and accessories**

Closed-loop water cooling
Power tuning and modulation
Fiber coupling
Maintenance and service packages

	Skylark 320	Skylark 349	Skylark 532	Skylark 640	Skylark 780
Output beam parameters –					
Output power	up to 200 mW		up to 2,000 mW	up to 1,500 mW	up to 200 mW
Wavelength	320 nm	349 nm	532 nm	640 nm	780 nm
Spectral bandwidth		≤ 0.1.	5 MHz		≤ 0.2 MHz
Spatial mode	TEM00				
Spectral stability	± 0.2 pm (over 8 hour operation)				
Coherence length			> 100 m		> 200 m
Output power stability	≤ 2.0 % (over 8 hour operation) ≤ 1.0 %			≤ 1.0 % (over 8 hour operation)	
Output power noise	≤ 0.1 % RMS (10 Hz – 10 MHz)				
Beam divergence	1.0 mrad, diffraction limited				
Beam diameter at output aperture	0.6 - 1.2 mm		0.7 - 1.1 mm		0.8 - 1.2 mm
Beam pointing stability			≤ 5 µrad/°C		
Laser head dimensions –					
LxWxH	240 x 150 x 100 mm			210 x 100 x 80 mm	170 x 95 x 75 mm
Beam height	65 mm				
Environmental conditions –					
Ambient temperature range	18 - 30 ℃				
Laser head interface stability	± 1.5 °C				
Storage	0 - 50 °C				
Humidity	0 - 50 %, non-condensing				

Reveal the unseen, detect the imperceptible, measure the unknown.

