

SKYLARK 785 NX

SINGLE FREQUENCY CW DPSS NIR LASER

The Skylark 785 NX CW DPSS laser delivers ultra-stable, narrow linewidth output with low noise and a pure TEM₀₀ beam, ensuring high resolution, high contrast Raman spectra.

Long-term reliability enables consistent, reproducible results for advanced Raman techniques.



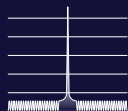
Key features



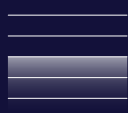
Ultra-narrow linewidth
 ≤ 300 kHz



Ultra-low power noise
 ≤ 0.3 % RMS (10 Hz - 10 MHz)



Ultra-low ASE noise
 < -80 dB



Ultra-stable power output
 ≤ 2.0 % over 8 hours

Applications

Raman spectroscopy, resonant Raman, micro-Raman, surface enhanced Raman (SERS), Raman mapping, cryo-Raman, hot-stage Raman, 2D material analysis, semiconductor material analysis, confocal microscopy, metrology, free-space optical communication.

Get in touch

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



Specifications

Output beam parameters

Output power	up to 400 mW
Wavelength	785 nm
Spectral bandwidth	≤ 300 kHz
Spatial mode	TEM ₀₀
Spectral stability	± 0.2 pm (over 8 hour operation)
Coherence length	> 100 m
Output power stability	≤ 2.0 % (over 8 hour operation)
Output power noise	≤ 0.3 % RMS (10 Hz - 10 MHz)
ASE noise	< -80 dB
Beam divergence	1.0 mrad, diffraction limited
Beam diameter at output aperture	0.8 - 1.2 mm
Beam pointing stability	≤ 5 μ rad/ $^{\circ}$ C

Environmental conditions

Ambient temperature range	18 - 30 $^{\circ}$ C
Laser head interface stability	± 1.5 $^{\circ}$ C
Storage	0 - 50 $^{\circ}$ C
Humidity	0 - 50 %, non-condensing

Dimensions

Laser head (L x W x H)	257 x 150 x 87 mm
Beam height	54.2 mm

