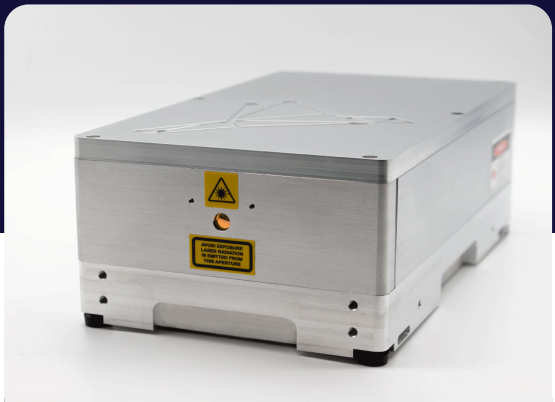

SKYLARK 785 NX

SINGLE FREQUENCY CW DPSS NIR LASER

Key features

Low power noise
≤ 0.3 % RMS

Low ASE noise
< – 80 dB

Stable power output
≤ 2.0 % over 8 hours

External frequency locking available

Scan to view specifications & product downloads

Laser 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 hours)
Coherence length	> 100 m
Output power stability	≤ 2.0 % (over 8 hours)
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 µrad/°C

Absolute referencing and fine tuning

Wavelength fixed between 775 - 815 nm via temperature-controlled etalon	
Fine tuning range via piezo	1 GHz
Coarse tuning via etalon adjustment	40 GHz
Lockable to external reference via error-signal feedback	

What do our customers say about Skylark NX NIR CW DPSS single frequency lasers?

"Power and frequency with the Skylark 780 NX remains sufficiently stable over multiple days. This allows for long acquisitions without the impact of drift affecting the experiment."

QUANTUM LAB

"The locking for the Skylark 780 NX is robust and very stable, we never lose the Rubidium frequency."

MICROSCOPE MANUFACTURER

"The Skylark 780 NX laser has very low ASE noise compared to our previous system; even without any additional ASE suppression measures like gratings and gas cells."

BRILLOUIN MICROSCOPY RESEARCHER

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