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Skylark 320

Single frequency CW C-DPSS UV laser

The Skylark 320 laser offers C-DPSS CW single frequency UV operation, delivering up to 200 mW output power, outstanding spectral properties, ultra-stable output, and extremely low noise from a compact footprint and a versatile software package — making it suitable for system integration and a wide range of demanding applications.

Key features



Ultra-narrow linewidth < 0.5 MHz



High spectral stability < 0.2 pm over 8 hours



High power stability < 2% over 8 hours



Integrated designEasy 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	≤ 0.5 MHz
Spatial mode	TEM00
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	≤ 0.1 % RMS (10 Hz - 10 MHz)
Beam divergence	1.0 mrad, diffraction limited
Beam diameter at output aperture	0.6 - 1.2 mm
Beam pointing stability	≤ 5 µrad/°C

Laser head dimensions

LxWxH	240 x 150 x 100 mm
Beam height	65 mm

Environmental conditions

Ambient temperature range	18 - 30 °C
Laser head interface stability	± 1.5 °C
Storage	0 - 50 °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 newer central	0 100 % continuous

Warranty

12 month warranty	For laser head and controller



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Skylark 349

Single frequency CW C-DPSS UV laser

The Skylark 349 laser offers C-DPSS CW single frequency UV operation, delivering up to 200 mW output power, outstanding spectral properties, ultra-stable output, and extremely low noise from a compact footprint and a versatile software package — making it suitable for system integration and a wide range of demanding applications.

Key features



Ultra-narrow linewidth < 0.5 MHz



High spectral stability < 0.2 pm over 8 hours



High power stability < 2% over 8 hours



Integrated designEasy 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	349 nm
Spectral bandwidth	≤ 0.5 MHz
Spatial mode	TEM00
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	≤ 0.1 % RMS (10 Hz - 10 MHz)
Beam divergence	1.0 mrad, diffraction limited
Beam diameter at output aperture	0.6 - 1.2 mm
Beam pointing stability	≤ 5 µrad/°C

Laser head dimensions

LxWxH	240 x 150 x 100 mm
Beam height	65 mm

Environmental conditions

Ambient temperature range	18 - 30 °C
Laser head interface stability	± 1.5 °C
Storage	0 - 50 °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



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Skylark 532

Single frequency CW C-DPSS VIS laser



The Skylark 532 laser delivers unrivalled single frequency performance at market-leading output powers from a compact footprint. The 532 NX provides outstanding beam characteristics, ultra-stable output, extremely low noise, and high-efficiency operation.

Key features



Ultra-narrow linewidth < 0.5 MHz



High spectral stability < 1 pm over 8 hours



High power stability < 1% over 8 hours



Integrated designEasy to install

Applications

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

Specifications

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Output	peam	parameters

Output power	up to 2,000 mW
Wavelength	532 nm
Spectral bandwidth	≤ 0.5 MHz
Spatial mode	TEM00
Spectral stability	± 0.2 pm (over 8 hour operation)
Coherence length	> 100 m
Output power stability	≤ 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	0.7 - 1.1 mm
Beam pointing stability	≤ 5 µrad/°C

Laser head dimensions

LxWxH	240 x 150 x 100 mm
Beam height	65 mm

Environmental conditions

Ambient temperature range	18 - 30 °C
Laser head interface stability	± 1.5 °C
Storage	0 - 50 °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



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Skylark 640

Single frequency CW C-DPSS VIS laser

The Skylark 640 laser delivers unrivalled continuous wave single frequency performance at market-leading output powers from a compact footprint. The 640 NX provides ultra-stable output and outstanding beam characteristics over a long coherence.

Key features



Ultra-narrow linewidth < 0.5 MHz



High spectral stability < 1 pm over 8 hours



High power stability < 1% over 8 hours



Integrated designEasy to install

Applications

Holography, holographic imaging, holographic art, holographic interferometry, holography research, Raman spectroscopy, fluorescence, metrology, flow cytometry. brillouin scattering, interferometry, optical manipulation, and more.

Specifications

Output beam parameters

Output power	up to 1,500 mW
Wavelength	640 nm
Spectral bandwidth	≤ 0.5 MHz
Spatial mode	TEM00
Spectral stability	± 0.2 pm (over 8 hour operation)
Coherence length	> 100 m
Output power stability	≤ 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	0.8 - 1.2 mm
Beam pointing stability	≤ 5 µrad/°C

Laser head dimensions

LxWxH	210 x 100 x 80 mm
Beam height	65 mm

Environmental conditions

Ambient temperature range	18 - 30 °C
Laser head interface stability	± 1.5 °C
Storage	0 - 50 °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



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Skylark 780 Single frequency CW C-DPSS NIR laser

The Skylark 780 laser is specifically designed for deployment in systems using rubidium transitions. With outstanding beam characteristics, ultra-stable output, and ultra-compact footprint, the 780 NX is ideal for demanding applications requiring a 780 nm wavelength.

Key features



Ultra-narrow linewidth < 0.3 MHz



High spectral stability < 0.2 pm over 8 hours



High power stability < 2% over 8 hours



Integrated designEasy to install

Applications

Raman spectroscopy, metrology, quantum technologies

Specifications

Output beam parameters

Output power	up to 200 mW
Wavelength	780 nm
Spectral bandwidth	≤ 0.3 MHz (no external ref.)
Spatial mode	TEM00
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	≤ 0.1 % RMS (10 Hz – 10 MHz)
Beam divergence	1.0 mrad, diffraction limited
Beam diameter at output aperture	0.8 - 1.2 mm
Beam pointing stability	≤ 5 µrad/°C

Laser head dimensions

LxWxH	210 x 100 x 80 mm
Beam height	65 mm

Environmental conditions

Ambient temperature range	18 - 30 °C
Laser head interface stability	± 1.5 °C
Storage	0 - 50 °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