

NEW

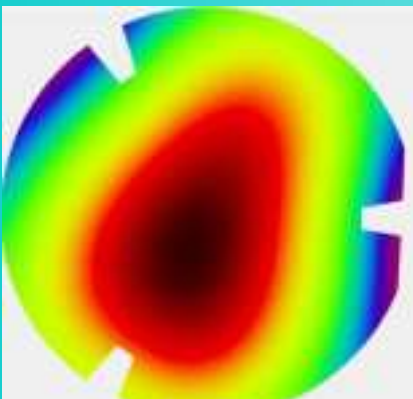
Lasy 633

Lasy 633*

Stabilized & Tunable Diode Laser

- Plug and play helium-neon laser replacement
- Iodine-referenced absolute frequency stabilization
- Arbitrary, hysteresis-free tuning due to interferometric reference
- Large tuning range > 300 GHz (? 0.4 nm)
- High coherence length
- Fiber coupling with active stabilization
- USB remote control

Application example



Phase Shifting Interferometry

*Lasy 633** easily replaces conventional He-Ne lasers, e.g. in phase shifting interferometers. In contrast to the gas laser, which required the reference surface to be moved in $\lambda/8$ steps for the phase extraction, *Lasy 633* can substitute this mechanical motion for an adequate shift of the laser wavelength. This makes *Lasy 633* a superior light source for interferometry.

Technical Data

Laser data:

Wavelength:	633 +/- 1nm (others on request)
Output power:	> 2 mW (fiber coupled) > 10 mW (free beam)
Tuning range:	typ. 300 GHz (? 0.4 nm)

Frequency stabilization:

Frequency stability	
when locked to iodine line:	better than 5 MHz per 10 min, 50 MHz absolute
when locked to interferometer:	better than 10 MHz per 10 min, 100 MHz per 8 h
Stepping resolution:	1 MHz
Coherence length:	> 50 m
Linewidth	< 5 MHz

Housing (L x W xH):	165 mm x 102 mm x 91 mm (desktop version) 170 mm x 100 mm x 91 mm (3 height units, 18 width units module for industrial 19" standard rack case)
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Operation temperatur range:	10..50°C
Power supply:	5 V, typ. 1000 mA, max. 2.5 A

Subject to change without notice

Development, Manufacturing and Distribution



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