LASOS
For worldwide photonics

He-Ne laser series

Helium-Neon gas lasers for highest precision measurements
up to 20 mW output power

- Absolute wavelength accuracy at
  - 632.816nm
  - 593.932nm
  - 543.365nm
- Stand-alone and OEM design available
- Outstanding long-term stability
- Excellent beam quality
- Reliable and robust
- Maintenance free
- Compact design
- Long lifetime
- Laboratory and OEM power supplies (DC and AC available)
- Customization on request

www.lasos.com

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LASOS® He-Ne laser series

The LASOS® Helium Neon laser tubes and modules have a robust mechanical design, excellent beam quality and long service life of up to 30.000 hours. Due to the excellent price performance ratio and their unique spectral properties He-Ne lasers are still the work horse in many high precision instruments. The He-Ne lasers are easy to handle and need no additional control or maintenance for daily operation. Standard and customized models are available in a large variety of wavelenghts in the spectral range red, green and yellow with output powers between 0.5 and 20 mW.

Options:

- Single mode or multimode
- Random or linear polarization
- Brewster window tubes for educational and scientific purposes
- Fiber coupling into a single mode, polarization maintaining fiber

All laser models can be provided with adequate OEM and laboratory power supplies, The Helium Neon lasers are designed for multipurpose applications such as:

- High precision measurement
- FTIR and Raman Spectroscopy
- Metrology and calibration
- Alignment and aiming
- Science and education

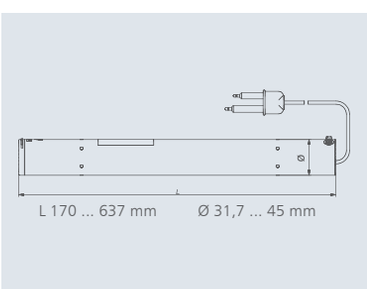
Available wavelengths:

General Specifications

Wavelengths	633nm, 543nm and 594nm
Output power	0.5…20 mW depending on wavelength
Output power stability over 8h after warm-up	≤ ±5 %[1]
Polarization ratio	random or linear >500:1
Noise 10 Hz … 20 MHz	< 1% rms
Mode purity TEM_{00}	>95 %[2]

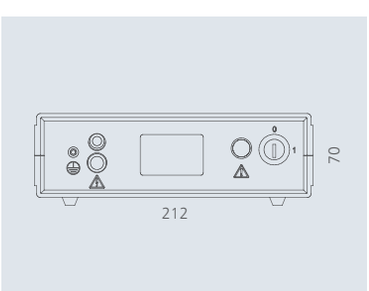
[1] Under constant ambient conditions
[2] For single mode models

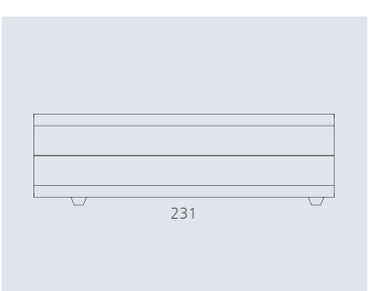
Dimensions (Modules)



Accessory

Laboratory power supply (SAN series)





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