

For current pricing,
please see our website.

Updated Specs
5-1-13 - LF

Frequency-Stabilized HeNe Laser

Thorlabs' Stabilized Helium Neon Laser allows for either frequency or intensity stabilization. In frequency-stabilized mode, the HeNe will keep its lasing frequency, or wavelength, constant. In intensity-stabilized mode, the laser will keep its output power constant. Stabilized HeNe lasers are necessary for many spectroscopy, interferometry, and wavemeter applications.

The laser is housed in a cylindrical housing, which can be conveniently mounted using one of the solutions on page XXX. The polarization axis is marked by a laser-engraved line on the laser's front face. The front face also includes an integrated beam stop, and the industry-standard 4-40 tapped hole pattern. The front face also has four 2-56 tapped holes for directly mounting a FiberPort Fiber Coupler.

The laser is supplied with a power supply with a universal voltage input.



HNS015
Stabilized HeNe
Laser and Power
Supply

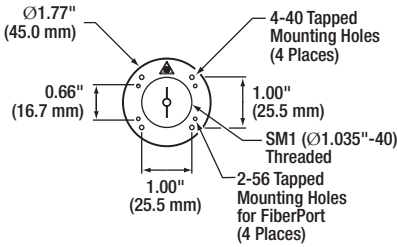
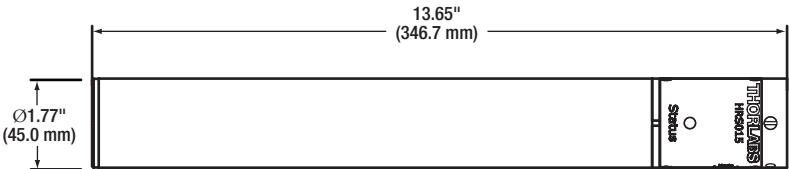


Features

- Frequency and Intensity Stabilization Modes
- Stabilized Power > 1.2 mW
- Polarized Output Beam
- Output Wavelength 632.991 nm
- Locking Time 30 - 40 minutes

Specifications

ITEM #		HRS015
Wavelength		632.991 nm
Stabilized Power		>1.5 mW
Unstabilized Power		>1.2 mW 2.7mW (Max)
Polarization		Linear >1000:1
Mode Structure		TEM ₀₀ >99%
Beam Diameter		0.7 mm
Beam Divergence		1.25 mrad
Longitudinal Mode Spacing		630 MHz
Beam Drift		<0.2 mrad
Long-Term Beam Drift		<0.05 mrad
Power Input		AC Universal (120/240 VAC)
Stabilization		
Output Frequency Stability	1 Minute	±1 MHz
	1 Hour	±2 MHz
	8 Hours	±2 MHz
Output Intensity Stability	1 Minute	±0.1%
	1 Hour	±0.2%
	8 Hours	±0.3%
Time to Lock		30 - 40 Minutes
Temperature Range to Maintain Lock		15 - 30 °C



HRS015
Clamp and Post
Not Included
(See Page XXX)

ITEM #	POWER	POLARIZATION	\$	£	€	RMB	1/e ² BEAM DIAMETER	BEAM DIVERGENCE
HRS015	>1.5 mW	Linear >1000:1	\$ 4,400.00	£ 3,168.00	€ 3,828.00	¥ 35,068.00	0.7 mm	1.25 mrad