

632.8nm HeNe laser 1.2mw



● Product Description

Our 1.2mW red (632.8nm) cylindrical HeNe lasers are designed in a tube, which makes them easy to install in almost all optical systems. The lasers of these lasers are linearly polarized light (200:1) or randomly polarized. The linearly polarized light is polarized in the vertical direction relative to the cable at the rear of the laser housing, and comes with an external power supply and power cord. The laser of the B-type intracavity HeNe laser is separated from the power supply. Turning the laser power switch will not affect the adjusted optical path. The laser is covered with an alloy aluminum tube with a plastic-sprayed surface. This makes the laser sturdy

and beautiful. The power supply uses a switching power supply and a metal housing. The power housing is grounded, and the laser is connected to the power supply with a silicon high-voltage wire.

● Product features

Red light (632.8 nm) output 1.6 mW、 Linear (200:1 polarization ratio) or random polarization、 External power supply included

● Part Number

MP-HN-632.8-1.2-PM

● Application area

Holographic Imaging | Laser Interferometry | Precision Measurement |
Scientific Research

● Core parameters

Center wavelength	Output power
632.8nm	1.2mW

● General Parameters

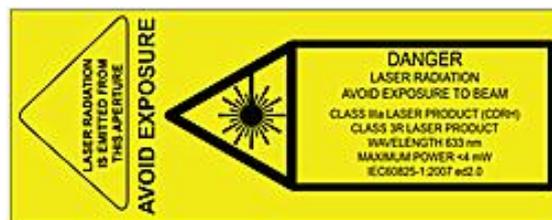
Parameters:

PN#	MP-HN-632.8-0.5-PM	MP-HN-632.8-.8-1-PM	MP-HN-632.8-1.6-PM	MP-HNP-632.8-2.8-0.5-PM
Operating wavelength	632.8nm	632.8nm	632.8nm	632.8nm
Output power	≥0.5mW	≥1mW	≥1.6mW	≥1.6mW
Output power stability	≤ ± 5%/hr			
Polarization (note)	random			200: 1
Transverse mode	TEM ₀₀			
Beam diameter	≤0.9mm			
Light divergence angle	≤1.8mrad			
Laser power supply	Switching circuit laser power supply (220V direct voltage doubler and rectifier low-end laser power supply composed of non-diode and capacitor)			
Laser weight (kg)	0.2	0.22	0.26	0.3
Power supply size (mm)	220×75×45			
Maximum starting voltage	10KVDC			
Operating current	6.5mA			
Power supply weight (kg)	0.8			

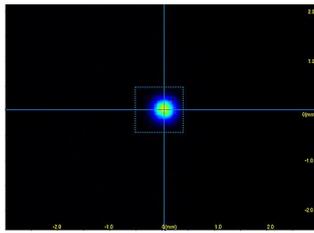
Power supply power consumption	30W
Vibration resistance	25g for 11 ms; 100g for 1 ms
Laser level	IIIa/3R
Operation time	Can run continuously 24 hours a day all year round

Note:

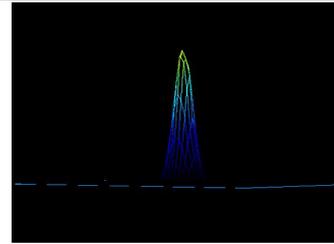
Some experiments (such as laser interference, holography, etc.) require splitting a laser beam into two laser beams. If you choose randomly polarized laser beam splitting, the light intensity of the two laser beams after splitting is unstable. If you choose linearly polarized laser beam splitting, the light intensity of the two laser beams after splitting is much more stable. The larger the extinction ratio of polarization, the more stable the light intensity of the two laser beams after splitting. The better the experimental effect.



2D/3D Beam Profiling

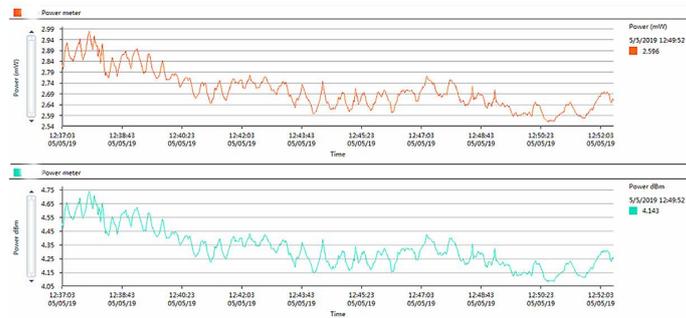


2D



3D

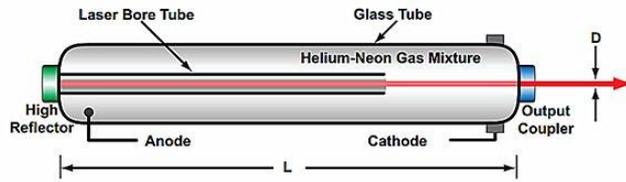
Power Stability Testing:



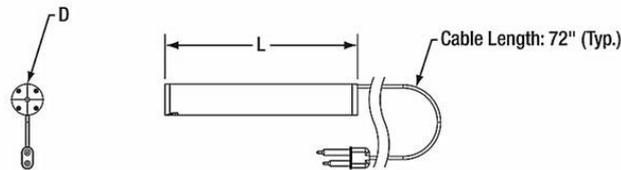
Laser power measurement diagram:



HENE laser structure:



Mechanical structure:



PN#	Diameter (D)	Length (L)
MP-HN-632.8-0.5-PM	42mm	220mm
MP-HN-632.8-1-PM	42mm	260mm
MP-HN-632.8-1.6-PM	42mm	325mm
MP-HNP-632.8-0.5-PM	42mm	325mm