Helium-Neon (HeNe) Laser

(632.8nm – Red Gas Laser)   PLHN-100 Series

R E D   L A S E R

PLHN-100

APPLICATIONS

Optical laser measurement
Raman spectroscopy
Laser printing
Holography experiment
Biological material research
Laser medical instrument

FEATURES

Continuous-wave output
Long coherence length
Low power and high stability

1" external mount and other accessories sold separately

Main Specifications:

Operation Wavelength:	**632.8nm (RED)** CW
Beam Profile:	TEM_{00} (single transverse mode; $M^2 < 1.1$;
Output Power:	10: 10mW; 15: 15mW; 20: 20mW; 25: 25mW; 30: 30mW; 35: 35mW;
	40: 40mW; or others upon request.
Polarization State:	R: Random standard;
	P: Polarized upon request, with extinction ratio: 500:1 typ.
Beam Diameter($1/e^2$):	≤2.0mm typ;
Beam Divergence:	0.75 mrad typical; < 1.0mrad max.
Power Stability:	≤ 5% typical;.
Lifespan:	20,000 hrs typ.
Operation Temperature:	0º C ~ 60º C
Dimension(Laser Head):	1180mm(L); 105mm x 140mm
Laser Driver:	Constant current; Internal starting trigger voltage: 10kV;
	Operation voltage: 2.5kV typ.; Operation current: 18mA typ.
Dimension(Laser Driver):	480mm(W) x 150mm(H) x 480mm(D)
Power Requirement:	220Vac/50Hz std; or 110V/50~60Hz per special request

Optional Items for PLHN-100 Series:

BE:	beam expander(1x2, 1x3, 1x4, 1x5,…)
AF:	adjustable/focusable mount,
FCP:	mounted aspherical fiber coupling lens module(AR coated)
SMF:	singlemode(SM) fiber pigtailed(FC)
SSP:	single mode(SM) fiber splitter(1x2, 50/50 typ or others)
MMF:	multimode(MM) fiber pigtailed(FC)
MSP:	multimode(MM) fiber splitter(1x2, 50:50 typ or others)
PMF:	polarization-maintaining (PM) fiber pigtailed(FC, slow-axis)
PSP:	polarization-maintaining (PM) fiber splitter(1x2. 50:50)
FCO:	fiber collimators;
FPC:	fiber polarization controller etc.,
WP/Q:	¼-waveplate, zero-order, 1" in diameter
WP/Q:	½ -waveplate, zero-order, 1" in diameter
POL10:	CL10mm calcite polarizer
	…...upon request.

Photonik reserves the rights to change product designs and specifications at any time without notice.

Upon request for all accessories for lab jacks, clamps, optical rail, riders, stages, and supporting legs…

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