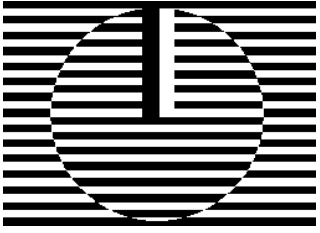


Helium-Neon Laser LGN-Series

For applications calling for an output power at 633 nm not accessible with the standard systems, the LGN-laser series provides high power multimode systems upto 100 mWatts as well as specially designed models combining high output power with superior pointing stability and low frequency drift.

Laser	LGN - 225A	LGN - 226A	LGN - 223	LGN - 223-1	LGN - 115	LGN - 118	LGN - 220	LGN - 220M	LGN - 220C
Gasfilling	HeNe								
Output power	2 mW	1,5 mW	10 mW		15 mW	25 mW	70 mW	100 mW	50 mW
Wavelength	633 nm								
Transversal mode structure	TEM00				TEMmn		TEM00	TEMmn	TEM00
Spektral composition	single mode				multi mode		single mode	multi mode	single mode
Polarisation	1 : 1	100 : 1	1 : 1	100 : 1	1 : 1		100 : 1		
Divergence	< 1,3 mRad				< 3 mRad		< 1 mRad	< 1,5 mRad	< 1 mRad
Beam diameter	0,6 mm		1 mm		2,2 mm	2,5 mm	2 mm		
Pointing stability	0,05 mRad/ hr								
Power stability	5%/ 8Std.						2%/ 8hrs.		
Noise	0,5%								
Warranted lifetime	> 10000 hrs.								
Average lifetime	> 25000 hrs								
Operating temperature	+ 10° - + 40° C								
Laser head dimensions	Ø 30 x 196 mm		Ø 44 x 485 mm		Ø 44 x 500 mm	Ø 56 x 680 mm	1965 x 225 x 195 mm		
Laser head weight	0,23 Kg		0,85 Kg			1,5 Kg	30 Kg		
Mains supply	230 VAC +/- 10%, 50 Hz								
Power consumption	15 VA		35 VA		45 VA	65 VA	350 VA		
Power supply dimensions	150 x 60 x 170 mm		100 x 65 x 330 mm				375 x 268 x 135 mm		
Power supply weight	1,2 Kg		2,5 Kg				12 Kg		



LGN-225A, LGN-226A

These systems are intended for cost conscious applications in the low power range upto 2 mWatts, either with a linear or random polarized laser beam.

LGN-223, LGN-223-1

In the 10 mWatt region these systems provide single mode operation with linear or random polarization.

LGN-115, LGN-118

As multimode versions at 15 and 25 mWatt output power, these systems combine low cost at high output power.

LGN-220, LGN-220C, LGN-220M

These systems combine superior stability parameters with highest output powers in the market available. All LGN-220 models are utilising a SuperInvar resonator and external interchangeable cavity mirrors. The extended discharge provide upto 100 mWatt at 633 nm. The single frequency and tunable versions are described in the according sections.