



Multi-Wavelength Helium-Neon Laser LGN-118 Series

Our multi-wavelength He-Ne laser line represents a new achievement for He-Ne lasers with simultaneous emission at two and three wavelengths. State-of-the-art methods for production of co-axial laser tubes and optical mirrors with sophisticated spectral characteristics and low losses ensure high specific line power and long term reliability of the devices.

We are prepared to also manufacture individualized lasers to customer requirements.

LGN-118-2B

This dual-wavelength laser is emitting at 630 nm in the visible spectrum and at 1150 nm in the IR range. Applications include remote gas analyzers of industrial methane leakage, adjustment of sophisticated optical systems of thermal vision devices and concealed security alarm systems.

LGN-118-3B

The LGN-118-3B is a triple-wavelength laser emitting at 630 nm in the visible range and at 1150 nm and 3390 nm in the IR spectrum. The laser may emit simultaneously on two IR lines or individually on any of the operating wavelength. Switching from one wavelength to the other does not affect position of the radiation axis.

Laser	LGN - 118 - 2B		LGN - 118 - 3B		
Gasfilling	He Ne				
Output power	10 mW	5 mW	10 mW	5 mW	5 mW
Wavelength	633 nm	1150 nm	633 nm	1150 nm	3390 nm
Transversal mode structure	TEM _{mn}				
Spektral composition	multi mode				
Polarisation	100 : 1				
Divergence	< 3,5 mRad	< 4 mRad	< 3,5 mRad	< 4 mRad	< 4,5 mRad
Beam diameter	< 3 mm	< 3,5 mm	< 3 mm	< 3,5 mm	< 4 mm
Pointing stability	0,05 mRad/ Std.				
Power stability	5%/ 8Std.				
Noise	0,5%				
Warranted lifetime	> 2000 Std.				
Average lifetime	> 5000 Std.				
Operating temperature	+ 10° - + 40° C				
Laser head dimensions	Ø 56 x 920 mm				
Laser head weight	2,5 Kg				
Mains supply	230 VAC +/- 10%, 50 Hz				
Power consumption	< 80 VA				
Power supply dimensions	100 x 65 x 330 mm				
Power supply weight	2,2 Kg				