



## “NEOARK” Transverse Zeeman Laser, Model NEO-262

Transverse Zeeman laser is one of frequency stabilized laser, by using the effect that a magnetic field is applied to transverse direction against oscillating luminous flux. The laser has the following features;

- 1) Frequency is stabilized, so that it can be used for measuring reference.
- 2) Oscillating light is composed of two linear polarization being crossed.
- 3) It has 2 frequency orthogonal polarization property, having difference of optical frequency constituent by a few hundred kHz.

The above characteristic is so useful for analysis of polarization transmission property or light source for heterodyne interferometer. And our products can be applied for the following usages.

### Application

- (1) Heterodyne interferometer measurement
- (2) Polarization parameter measurement like as birefringence or optical rotation
- (3) Ellipsometry
- (4) Optical fiber sensor
- (5) Doppler speed meter
- (6) Wavefront analysis by heterodyne interference
- (7) Heterodyne moire topography
- (8) Holographic heterodyne interference measurement



Specification	NEO-262
Wavelength	632.8nm
Frequency stabilization	$1 \times 10^{-9}$
Stabilization method	Transverse Zeeman
Laser output	1.5mW
Polarization	Random
Beam diameter	0.9mm phi (1/e <sup>2</sup> )
Beam divergence	1mrad
Warming up time	20 minutes
Power required	AC100V 30VA
Main body dimension	113(W) x 93(H) x 450(D) mm
Power supply dimension	350(W) x 140(H) x 400(D) mm
JIS safety classification	Class 3B