

# Lepton IV Series Diffraction Limited Diode Lasers



## Features

- Easy Plug and Play
- 375nm to 1550nm
- Circular Gaussian beam
- Narrow linewidths
- Variable output power
- TE cooled for high stability
- Many accessories
- Certified system

## Applications

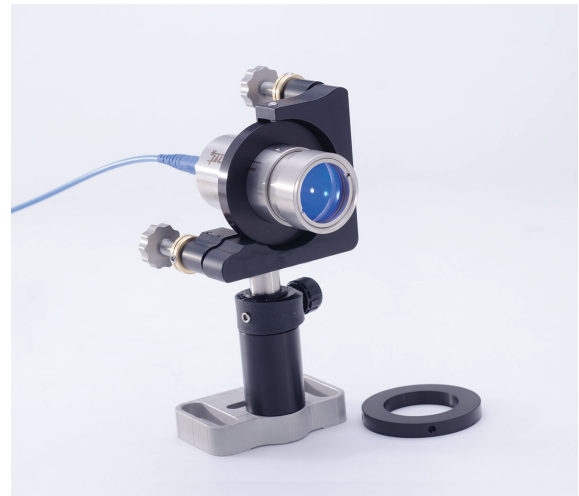
- Fluorescence excitation
- Raman spectroscopy
- Ophthalmology
- Confocal microscopes
- Optical tweezers
- Cytometry
- Material analysis
- Photo plotting
- Interferometry
- High resolutions scanning

For many users, a simple turnkey laser system is optimal so that you can concentrate on your experiment and not the laser itself. Having a diode laser with very high beam quality, narrow linewidth and high stability is what one expects of any laser system. Our Lepton IV Series of diode lasers provides an affordable alternative to more costly gas or solid state lasers.

All you do is plug it in and turn it on. No additional heat sinks or power supplies are required. Output is adjustable from zero to full output power. All safety are incorporated for a fully certified system.

Accessories include beam expanders, focusing optics, filters, polarizers, beam splitters, etc. Adapter plates and rings are available to mount the laser with common optical mounts found in any lab.

OEM versions of these lasers are available with full control of all laser parameters.



Lepton IV with Ring adapter to mount to optical mounts.



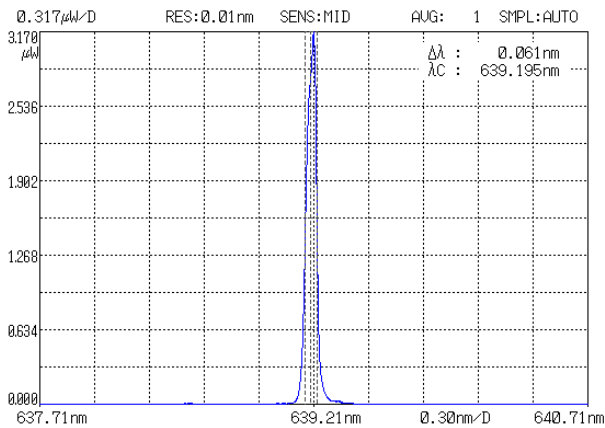
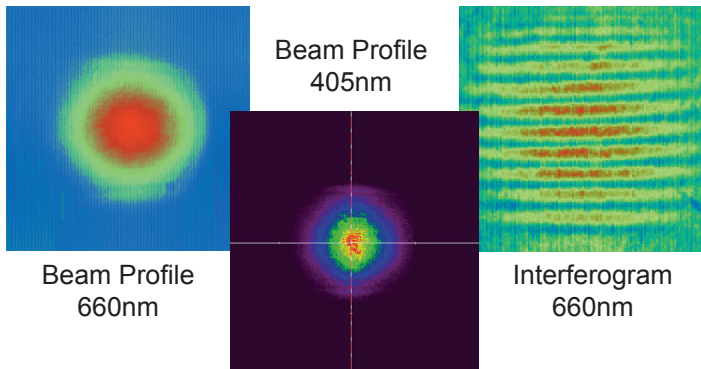
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# Lepton IV Series Diffraction Limited Diode Lasers

## Specifications

Beam diameter:	3-4 mm or 1-2 mm optional
Beam divergence:	<0.7 mrad
Wavefront error:	<1/10 wave for most
Optical power:	Adjustable
Power stability:	<1%
Power requirements:	90-125 VAC, 190-250 VAC, 47-63 Hz.
Connections:	Interlock BNC Laser monitor BNC Modulation BNC (optional)
Operating temperature:	15°C (or dew point) to 30°C
Storage temperature:	0°C to 50°C
Compliance:	CDRH 21CFR 1040.10 certified as applicable and compliant to IEC 60825-1.2

All lasers are temperature controlled for high stability.. All lasers operate in a single transverse mode and many operate in a single longitudinal mode.



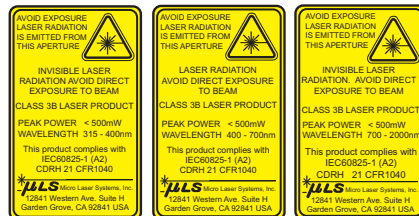
Specifications subject to change without notice.

## Ordering Information

Model #	Model # for Stabilized $\lambda$
L4 375M-56-TE/ESYS	L4 405N-32-TE/ESYS
L4 405M-100-TE/ESYS	L4 633N-8-TE/ESYS
L4 450M-50-TE/ESYS	L4 633D-8-TE/ESYS
L4 473M-80-TE/ESYS	L4 785N-64-TE/ESYS
L4 488M-50-TE/ESYS	L4 1064N-64-TE/ESYS
L4 488M-150-TE/ESYS	L4 1310D-3-TE/ESYS
L4 520M-40-TE/ESYS	L4 1550D-3-TE/ESYS
L4 633M-80-TE/ESYS	
L4 635S-12-TE/ESYS	
L4 637M-136-TE/ESYS	
L4 638S-25-TE/ESYS	
L4 642M-48-TE/ESYS	
L4 642M-120-TE/ESYS	
L4 660S-70-TE/ESYS	
L4 660M-95-TE/ESYS	
L4 705S-32-TE/ESYS	
L4 730S-32-TE/ESYS	
L4 785S-95-TE/ESYS	
L4 830S-40-TE/ESYS	
L4 830M-150-TE/ESYS	
L4 852S-40-TE/ESYS	
L4 852M-150-TE/ESYS	
L4 975M-200-TE/ESYS	
L4 980M-200-TE/ESYS	
L4 1064M-150-TE/ESYS	

The “D”, “N”, “S”, and “M” in the part numbers refer to the longitudinal mode of the laser (i.e. the spectral width). “D” and “N” have linewidths of 1-200MHz while “S” has <0.1 nm linewidth. “M” has linewidths between 0.5 to 2 nm.

Please call for other wavelengths and power levels.



Label is illustrated here to comply with 21 CFR1040.10 as applicable under the radiations for health and safety act of 1986.



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