ChemLogix™

MICROSENSE-L SERIES

HIGH PERFORMANCE RAMAN MICROSCOPE

The MicroSense-L Series High Performance Raman micros-copy system provides the most cost-efficient solution for microscopic Raman analysis.

The MicroSense-L system features a Leica DM300 microscope and a high sensitivity ProRaman-L Raman analyzer. A high resolution CMOS imaging camera is used for precise positioning and viewing the sample for Raman measurements. The MicroSense-L achieves 50Microm spatial resolution with a 40x objective. Each system includes a notebook computer preloaded with RamanReader software for operation. There are four excitation laser wavelengths to choose from: 532nm, 687nm,785nm, and 905nm.

The MicroSense-L is a powerful, versatile, robust, and affordable Raman microscope. It is an ideal choice for any research and industrial laboratories requiring a high performance Raman Microscopy System.

Features and Benefits

+ High-sensitivity Raman microscope system for laboratory applications
+ High-performance/cost ratio of any Raman instrument
+ Best signal to noise characterization of any laboratory Raman instrument
+ Reliable and easy to use
+ User-friendly software
+ 21 CFR Part 11 compliant

Applications

+ Laboratory research
+ Industrial research

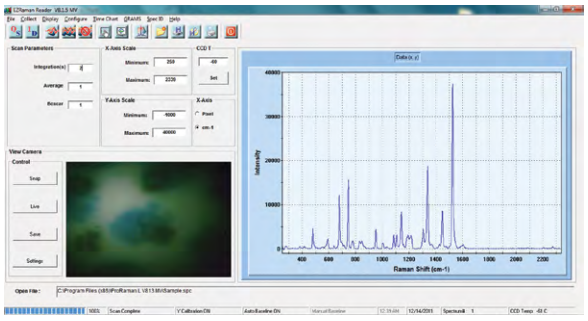
TSI®

UNDERSTANDING, ACCELERATED

SPECIFICATIONS

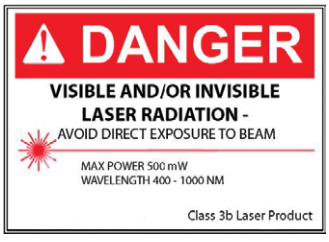
MICROSENSE-L SERIES
HIGH PERFORMANCE RAMAN MICROSCOPE

ProRaman-L Raman Spectrometer								
	785 nm Frequency Stabilized Diode Laser			532 nm DPSS Laser			905 nm Frequency Stabilized Laser	
Output Power	~400mW			~50mW,			~50mW	
Spectral Parameter Options	Model	Spectral Range	Resolution	Model	Spectral Range	Resolution	Spectral Range	Resolution
	A1	100 - 2,200 cm^{-1}	6 cm^{-1}	B	100 - 3,100 cm^{-1}	7 cm^{-1}	150 - 2,000 cm^{-1}	5cm^{-1}
	A2	250 - 2,350 cm^{-1}	6 cm^{-1}	C	100 - 4,000 cm^{-1}	10 cm^{-1}	—	
	B	100 - 3,300 cm^{-1}	6.5 cm^{-1}	—			—	
Shutter Control	Power adjustable from 0 to full power							
CCD	High sensitivity CCD spectrograph, CCD detector cooled to -60°C							
HRP-8 High Throughout Fiber-Optic Raman Probe	O.D. > 8 Rayleigh rejection at laser wavelength							
Working Distance	~7 mm (standard), 3mm or 10 mm (optional)							
Operating Temperature	10°C - 40°C with thermal shutdown protection							
MicroViewer Raman Adaptor								
MicroViewer-785/532 Raman adaptor with 1.3M pixel CMOS viewing camera and white light LED epi-illumination								
Microscope								
Leica DM300 microscope with 10x, and 40x objectives (optional Olympus 20x and 50x objective available)								
System Software								
RamanReader-M software system control and data collection software including micro-imaging software for sample viewing								
Power Requirements								
DC power supply (work both for 110/220V)								
Physical								
Dimensions (L x W x H)	ProRaman-L: 5.9" x 9.8" x 11.8"							
	Microscope: 10" x 7" x 15"							
Weight	~ 45 LBS							
System Warranty								
One year for parts and labor								



Specifications are subject to change without notice.

Appropriate safety guidelines should be followed when operating this instrument. Complies with 21 CFR 1040.10 and 1040.11



UNDERSTANDING, ACCELERATED

TSI Incorporated - Visit our website **www.tsi.com** for more information.

USA	**Tel:** +1 800 874 2811	**India**	**Tel:** +91 80 67877200
UK	**Tel:** +44 149 4 459200	**China**	**Tel:** +86 10 8219 7688
France	**Tel:** +33 4 91 11 87 64	**Singapore**	**Tel:** +65 6595 6388
Germany	**Tel:** +49 241 523030		

P/N 5001576 Rev A

Printed in U.S.A.