

The i-LAB[®] Hand Held Analyzing Spectrometer

The i-LAB Hand Held Analyzing Spectrometer

is a versatile and powerful instrument that allows users to record and compare spectral measurements in their work environment. The i-LAB utilizes

MicrOptix Technologies' patented,

integrated sensing system. This technology has miniaturized the core optical system used by spectrometers which enables i-LAB users to bring the instrument to the sample. The i-LAB system features a powerful PC software program named i-LAB Spectrum that allows users to create and transfer customized measurement methods to the i-LAB. For ease of conducting measurements, the i-LAB features several sample measurement adaptor options.



S560 Visible Model



Key Features

- **Portability**
Weighs 7.4 ounces! Allows users to take the instrument to the sample source. Requires little storage space.
- **i-LAB Spectrum PC Software**
Enables users to build custom i-LAB measurements. i-LAB measurement results can be downloaded to a PC for further analysis.
- **Measurement Flexibility**
Allows for concentration, absorbance, and sample comparison measurements of liquids and solid surfaces.

The patented i-LAB Hand Held Analyzing Spectrometer was developed to give users the flexibility to test liquids and solids when and where they want.

i-LAB Measurement Adaptors



Markets and Applications



Remote Field

- Water Quality Testing
- Agricultural Monitoring
- Fuel Dye Measurements



Process Plant

- Quality Assurance & Control
- Sample Testing at Source



Laboratory

- Rapid Data Collection & Analysis
- Custom Research Methods



Classroom

- College Chemistry Labs & Research
- Environmental Science & Research

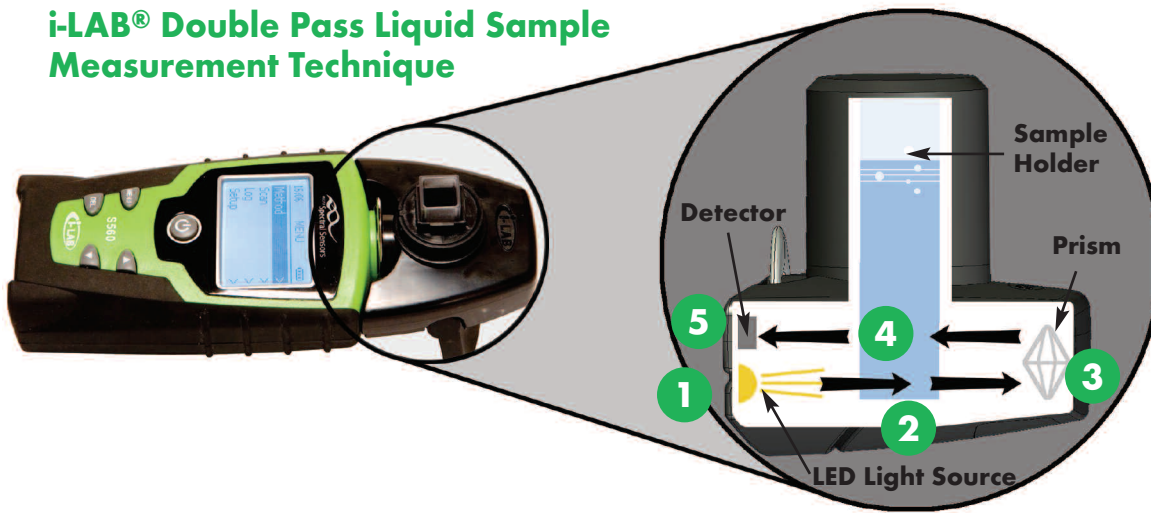
“Bringing the Instrument to the Sample Source!”



Microptix Technologies, LLC
284 Main Street, Suite 400 • Wilton, ME 04294-3044
T. 207.645.3600 • www.microptixtech.com

The i-LAB[®] Hand Held Analyzing Spectrometer

i-LAB[®] Double Pass Liquid Sample Measurement Technique

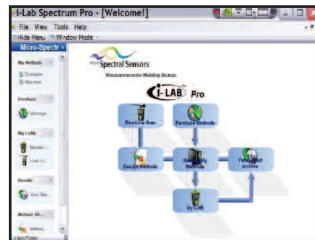


- 1 The i-LAB's LEDs generate a spectrally balanced light source.
- 2 Light passes through the sample.
- 3 Light is redirected from adaptor prism.
- 4 Light passes through the sample a second time.
- 5 Light is measured by the Detector.

Technology Overview

The i-LAB features our patented, integrated sensing system comprised of a high efficiency, linearized photo diode array detector and high stability, high output, low power LED light sources.

i-LAB Spectrum Software enables users to create custom measurement methods for their i-LAB.



i-LAB Spectrum Software

i-LAB[®] Specifications & Features

Wavelength Range	400 - 700 nm • Visible Model 650 - 1050nm • NIR Model
Bandwidth	4 - 7 nm • Visible Model 6.5 - 10.5 nm • NIR Model
Light Source	Spectrally Balanced LEDs
Display	Backlit LCD, 2" x 2"
Detector	Linearized Photo Diode Array
Communications	mini-USB
Dimensions	2.75"(w) x 5"(h) x 1.75"(d)
Weight	7.4 Ounces
Power	Approx. 1 Watt using 3 AA Batteries
Data Logging	Up to 500 Spectra
Method Storage	Up to 100 Measurements
Approvals	CE

Manufacturing Specifications and Features Subject to Change

Product Selection

i-LAB Part Number Matrix

	Measurement Range	Software	Sample Adaptor
i-LAB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	V - Visible N - NIR C - Custom	1 - Data Logger* 2 - Spectrum**	10 mm Samplette 20 Cuvette 50 Round Vial 55 Surface Reader 99 Custom
Example	i-LAB <input type="checkbox"/>	<input type="checkbox"/> 2	<input type="checkbox"/> <input type="checkbox"/> 2 <input type="checkbox"/> 0

i-LAB Visible Range Spectrometer System with i-LAB Spectrum Software - Standard Version and 10mm Cuvette/(25mm)Round Vial Adaptor.

*Allows for data extraction from i-LAB but not Programming. **Allows i-LAB custom Programming.