

The i-LAB[®] Hand Held Analyzer

For the Food & Beverage Market

The i-LAB Hand Held Analyzing Spectrometer

allows Food & Beverage Customers to conduct a wide variety of spectral process measurements at the sample source for improved Quality Control. The i-LAB has several sample adaptors that allow users to interface to a variety of both liquid and solid surface samples. The i-LAB can be used to analyze a sample against a reference sample and determine if the samples match according to user specific analysis criteria. The i-LAB System utilizes MicroOptix Technologies' patented, integrated sensing system enabling the i-LAB to conduct Laboratory quality spectral measurements in the process plant or in the laboratory.



S560 Visible Model

Key Features

- **Portability**
Weighs 7.4 ounces! Allows users to take the instrument to the sample source.
- **i-LAB Spectrum Software**
Enables users to build custom methods and transfer data from the i-LAB to your PC for further analysis.
- **Measurement Flexibility**
Allows for concentration, absorbance, and sample comparison measurements for liquids, solids and gels.
- **Double Pass Sample Measurement**
For increased sensitivity with liquid samples.

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 Sample Adaptors



Food & Beverage Applications



Ingredient Inspection

- Incoming QA/QC
- Grading & Custom Analysis



Process Monitoring

- Process QA/QC
- Batch & Recipe Verification



Research

- Custom Color Analysis
- Concentration Reactions



Laboratory

- Colorimetric Reactions
- Absorbance/Transmission Measurements

“Bringing the Instrument to the Sample Source!”



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Measurement Methods Included:

QA/QC Liquid Color Analysis - Allows users to store a reference sample to the i-LAB's on-board memory and then compare an active sample against it for spectral analysis.

Custom Color Library Analysis - Allows users to store five custom color references into the i-LAB as a reference and then compare an active sample against this library in order to determine the closest match.

CIE Lab Color Analysis - Allows users to determine a liquid sample's CIE tri-stimulus values (X,Y,Z) and color scale values (L*,a*, b*) following the ASTM E308 Standard Practice.

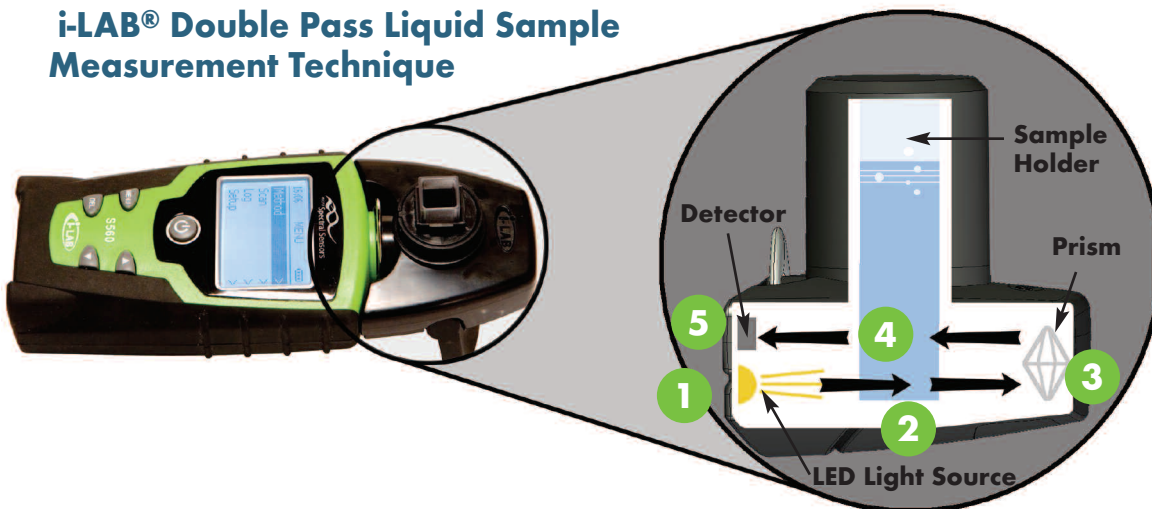
Other Measurements can be easily developed for the i-LAB using the included i-LAB Spectrum Software.

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

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.

Product Selection

i-LAB V 8 0 0

i-LAB Visible Range Analyzer with Cuvette/Round Vial Sample Adaptor, 100 Disposable Samplettes, Spectrum Software, and Food & Beverage Measurement Method Suite.

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