

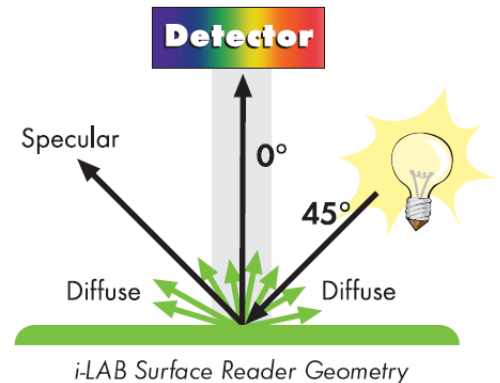
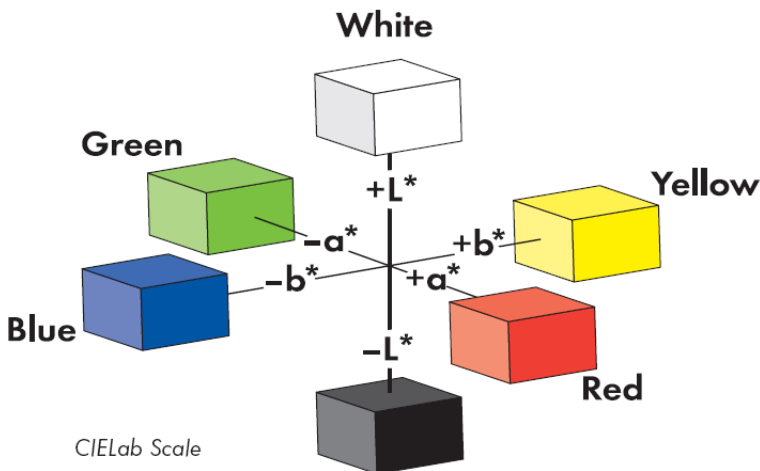
# i-LAB® Application Note

## Solid Surface Color Analysis

### Application Summary

Taking instrumental color measurements for quality assurance and control applications in the field and in process plants has always been challenging. The i-LAB® Surface Reader enables users to make quality color comparison measurements in a compact and cost effective package.

Colors are often characterized in terms of their Lightness ( $L^*$ ), Red-Green ( $a^*$ ), and Blue-Yellow ( $b^*$ ) component values. The ability to measure these values at the  $45^\circ/0^\circ$  Geometry is an excellent way to measure the color of a sample as it would be perceived by a customer observing it. The ability to measure solid surface colors against an accepted standard or reference and analyze those results quickly and cost effectively has been a challenging application for a number of industries. The i-LAB® Hand Held Analyzing Spectrometer allows users to make consistent spectral measurements that test the color of solid or liquid samples against a reference, and perform application specific analysis.



### Markets and Applications

#### Industrial

- Paint Matching
- Quality Assurance



#### Building Products

- Color Matching
- Product Identification



#### Academic

- Lab Experiments
- Field Research



#### Agricultural

- Fruit Ripeness
- Quality Assurance



### Customer Benefits

#### • Portability

The i-LAB weighs only 7.4 Ounces making it ideally suited for a variety of field and process plant color analysis measurements.

#### • Measurement Flexibility

Allows users to measure solid surface color samples as well as liquid samples with optional Samplettes.

#### • Application Specific Analysis

Customized measurement methods can be created with our Spectrum Software for specific customer applications.

*“Bringing the Instrument to the Sample!”*



Microptix Technologies, LLC  
 284 Main Street, Suite 400 • Wilton, ME 04294-3044  
 T. 207.645.3600 • [www.microptix.com](http://www.microptix.com)