

i-LAB® Application Note

Solid Surface Color Analysis

Application Summary

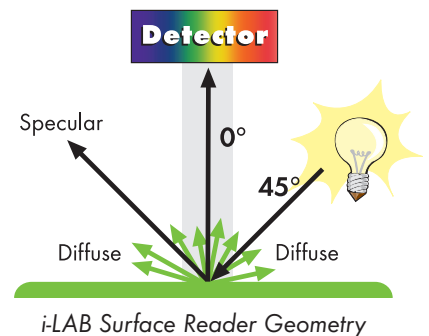
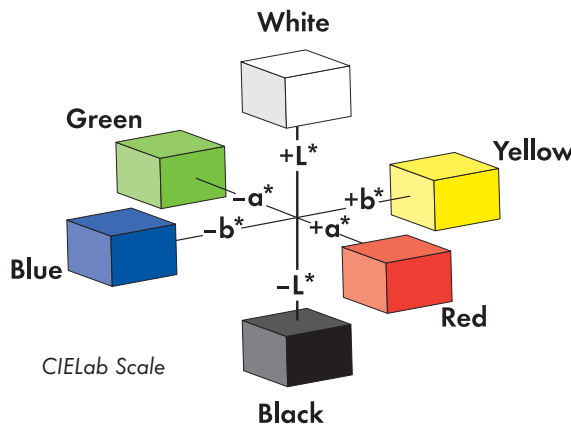
Instrumental color measurements for quality assurance and control applications in the field and in process plants is often time consuming and expensive. The ability to measure solid surface colors and compare them to known standards quickly and anywhere in the plant allows users to test samples more efficiently.

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.



i-LAB Application Solution

The i-LAB V255 Surface Reader enables users to make quality color comparison measurements rapidly and in a compact and cost effective package.



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!”



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