



Color i™ 5

Benchtop Spectrophotometer

A flexible instrument for accurate, high-volume production measurement of a wide variety of samples sizes, shapes, textures, and opacity levels. An embedded NetProfiler system combines with self-diagnostic, and auto-configure functions ensures consistent, precise performance.



Color i5 Advantages

- **High Volume Performance.** The ideal mid-range benchtop solution for measuring a wide range of samples that delivers unprecedented operating ease and flexibility in high-volume production operations
- **NetProfiler® Embedded.** An on-board system that monitors instrument performance and can optimize and certify, remotely via the internet, without the need for additional service, enabling the exchange of spectral color data with confidence while cutting operating costs
- **Simultaneously Measure SCI/SCE and Calibrated UV Control.** Tri-beam technology allows simultaneous measurements of SCI (specular component included) and SCE (specular component excluded), enabling correlated gloss measurement and gloss assessment for gloss corrected color formulation. This simplifies measuring pure color or simulating how the human eye responds to surface effects. Automated UV control provides speed and convenience for automatic UV D65 calibration and adjustment and UV included / excluded measurements. This provides for accurate measurement of optically brightened or fluorescent samples
- **Complete Auto-Configuration Simplifies Setup And Eliminates Measurement Errors.** It's practically impossible to take bad color measurements because the system automatically configures itself. Plus, each measurement includes a "digital signature" verifying the instrument's status. So anyone using your data will know it's reliable – including suppliers, customers or other operators and facilities
- **Reflectance and Transmittance.** Three area of view aperture sizes, available for both reflection and total transmittance and a direct transmittance aperture, provide versatility in dealing with various sample sizes. Sample measurement orientation provides the option of either horizontal or vertical sample positioning. These add convenience and give you the most flexibility to match more samples sizes, shapes, and any opacity level
- **Remote Standard and Trial Buttons.** Remote read buttons allow the user to trigger a measurement and identify the data as either a standard or trial measurement directly from the Color i5. The sample preview capability allows the user to verify sample targeting which speeds measurements while eliminates errors
- **Led Status Panel Uniquely Warns You When You Are At Risk.** Allows users and supervisors to verify the Color i5's status and configuration at a glance

Specifications

Repeatability (white tile)*
0.03 RMS ΔE_{CIELab}

Inter-Instrument Agreement
Avg ΔE_{CIELab} *
0.15 ΔE_{CIELab}

Illumination
Pulsed Xenon,
D65 Calibrated

Spectral Range
360 nm – 750 nm

Wavelength Interval
10 nm

Photometric Range
0% - 200% reflectance

Photometric Resolution
0.01%

Measurement Time (seconds)
2.5

Reflectance Apertures
25 mm
10 mm
6 mm

Total Transmittance Apertures
22 mm
10 mm
06 mm

Direct Transmittance Apertures
22 mm

Optical Configuration
Tri-beam diffuse 80, 6" sphere
2D CCD array/holographic grating

Dimensions
Tri-beam diffuse 8°,
6" sphere, 2D CCD
array/holographic grating

Dimensions
Height 25 cm (10 inches)
Width 23 cm (9 inches)
Depth 47 cm (18 inches)
Weight 12 kg

Temperature (operating)
10° - 35° C

Relative Humidity
20% - 80%

Electrical Requirements
100 to 240 VAC / 50 to 60 Hz

Interface
USB/RS-232

NetProfiler
Embedded

Special Features
Simultaneous SCI/SCE
Automated UV and lens control

* Average ΔE of BCRA ceramic standards relative to X-Rite standardized values under lab conditions, LAV, 22 degrees C. Specifications subject to change without notice.

X-Rite: Your source for accurate color. On time. Every time.

X-Rite is a world leader in providing global color control solutions for manufacturing and quality management requirements.

We lead the industry in offering service options to ensure uninterrupted performance of all X-Rite products. Training and educational resources are available globally and online for both new and experienced users to optimize their color measurement capabilities.

Visit xrite.com for more information about X-Rite products. X-Rite customers worldwide may also call the Applications Support team at CASupport@xrite.com or Customer Service at 800-248-9748.

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