



Color-Eye® 7000A

Benchtop Spectrophotometer

Color-Eye® 7000A is a premium reference grade spectrophotometer known for its superior inter-instrument agreement and reliability. Used by leading color suppliers worldwide, Color-Eye® 7000A makes the ideal foundation for a color management system, especially for those who want to establish digital color standards for their supply chains.

Color-Eye® 7000A Advantages

- **Premium Reference Grade.** The premier reference instrument in the industry features unsurpassed inter-instrument agreement, superior precision and outstanding reproducibility over time. Precise, repeatable measurements allow you to share data globally, making it the instrument of choice for dedicated color analysis in the lab or in a manufacturing setting
- **NetProfiler® Enabled.** An exclusive advance in color measurement that monitors instrument performance and can optimize and certify, remotely via the internet, without need for additional service, enabling the exchange of spectral color data with confidence
- **Automated SCI/SCE and Calibrated UV Control.** Automated SCI (specular component included) and SCE (specular component excluded) controls simplify measuring pure color or simulating how the human eye responds to surface effects such as gloss or texture. A motorized 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
- **Reflectance and Transmittance.** Four area of view aperture sizes are available for Reflection sample measurement to provide versatility in dealing with various sample sizes. Accurately measure total or direct transmission of translucent and transparent materials
- **True Dual-Beam Design with Automatic Balancing Provides Greater Consistency.** The Grating based dual-beam optical design has two spectral analyzers which measure the sample and the internal reference simultaneously. This design also employs an additional pulsed xenon light source which automatically balances the two spectral analyzers compensating for temperature changes and preventing electronic drift. This assures superior long term stability and provides greater consistency
- **Touch Screen Display Lets You Easily View and Change Instrument Status.** The unique touch screen display provides instrument status at a glance and also allows you to easily you easily view and change the instrument configuration



Specifications

Repeatability RMS E (white tile)*

Maximum 0.01 RMS ΔE CIELAB

Inter-Instrument Agreement (LAV)

Maximum 0.08 Avg. ΔE CIELAB*

Illumination

Pulsed Xenon

Spectral Range

360 nm – 750 nm

Wavelength Accuracy

.1 nm (400 – 700)

Wavelength Precision

.05 nm (400 – 700)

Wavelength Interval

10 nm

Band Pass

10 nm

Photometric Range

0% - 200% reflectance

Photometric Resolution

0.001%

Reflectance Apertures

- Large Area View (LAV)
1" (2.54 cm)
- Medium Area View (MAV)
0.6" (1.5 cm)
- Small Area View (SAV)
0.3" x 0.4" (0.75 cm x 1.0 cm)
- Very Small Area View (VSAV)
0.12" x 0.31" (0.3 cm x 0.8 cm)

Measurement Time

< 1 second

Transmission

Total and direct

Optical Configuration

Diffuse/8° (illumination/ measurement)
6" (15.2 cm) integrating sphere
2 spectral analyzers

Dimensions

Height 38.7 cm (15.25 inches)
Width 27.9 cm (11 inches)
Depth 71.1 cm (28 inches)

Temperature (operating)

15°C - 32°C (60°F – 90°F)

Relative Humidity (operating)

0% – 90%, non-condensing

Electrical Requirements

117 VAC / 50 - 60 Hz
230 VAC / 50 - 60 Hz

Interface

RS-232

NetProfiler

Enabled

* Average ΔE of BCRA ceramic standards relative to X-Rite standardized values under lab conditions, LAV, 22° 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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