

Portable Sphere Spectrophotometer

The SP64 is a spherical hand held spectrophotometer, with a special PROJECT and JOBS mode and switchable apertures, designed to meet the performance and feature capabilities necessary for diverse color measurement applications.





SP64 Advantages

- Versatile. Use for lab, plant or field operation
- Easy to Read. Large, graphical LCD display
- Quick Color Compare. Permits quick measurement and comparison of two colors without need to create tolerances or store data
- Special PROJECT Mode. Multiple color standards can be collected under an identified project as part of corporate color standards programs
- **Special JOBS Mode.** A programmed sequence of specific steps to guide an operator through a color measurement process, assuring consistency
- **Switchable Apertures.** The internal apertures can be quickly changed with the flip of the switch for 4mm to 8mm aperture sizes. Also available in a 14mm fixed aperature
- Pass/Fail Mode. Up to 1,024 standards with tolerances can be stored for easy pass/fail measurement
- Inter-Instrument Agreement. Superior agreement capabilities ensures integrity of multiple instrument color control
- Measuring Functions and Indices. Absolute and difference measurements are obtained for the following colorimetric systems: CIE XYZ, CIE Yxy, CIE L*a*b*, Hunter Lab, CIE L*c*h*, CMC, CIE94, Whiteness and Yellowness per ASTM E313-98, Metamerism Index and DIN 6172 + AATCC Gray Scale
- Opacity, Color Strength and Shade Sorting. Device measures opacity, color strength in chromatic, apparent, and tri-stimulus calculations, and 555 shade sorting for precise color control of products involving plastic, painted, or textile materials
- Texture and Gloss Influence. To determine the influence of the specular component, the SP64 allows simultaneous measurement of both specular-included (color) and specular-excluded (appearance)
- User-Friendly Ergonomics. A wrist strap and tactile side grips facilitate holding and a flip back target shoe adds flexibility
- Rechargeable Battery. Allows for remote use

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.

X-RITE WORLD HEADQUARTERS

Grand Rapids, Michigan USA • (800) 248-9748 • +1 616 803 2100 © 2007, X-Rite, Incorporated. All rights reserved. Measuring Geometrics d/8°, DRS spectral engine, switchable 4mm measurement area/6.5mm target window or 8mm measurement area/13mm target window (optional fixed 14mm measurement area/20mm target window)

Light Source Gas-filled tungsten lamp

Illuminant Types C, D50, D65, D75, A, F2, F7, F11 & F12

Standard Observers 2° & 10°

Receiver Blue-enhanced silicon photodiodes

Spectral Range 400 – 700nm

Spectral Interval 10nm – measured 10nm – output

Storage 1,024 standards with tolerances, 2,000 samples

Inter-Instrument Agreement 8mm/14mm CIE L*a*b* Avg. 0.13 ΔE_{ab}^* based on avg. of 12 BCRA Series II tiles (specular component included) Max. 0.25 ΔE^*_{ab} on any tile (specular component included) CMC equivalent: Avg. 0.10 ΔE_{cmc} based on avg. of 12 BCRA Series II tiles (specular component included) Max. 0.20 ΔE_{cmc} on any tile (specular component included) 4mm CIE L*a*b*: Avg. 0.20 ΔE^*_{ab} based on avg. of 12 BCRA Series II tiles (specular component included) Max. 0.40 ΔE^*_{ab} on any tile (specular component included) CMC equivalent: Avg. 0.15 ΔE_{cmc} based on avg. of 12 BCRA Series II tiles (specular component included) Max. 0.30 ΔE_{cmc} on any tile (specular component included) Short-Term Repeatability¹ .05 ΔE^*_{ab} on white ceramic (Standard deviation)

Measurement Range 0 to 200% reflectance

Measuring Time Approx. 2 seconds

Lamp Life Approx. 500,000 measurements

Power Supply Removable (Ni-metal hydride) battery pack; 7.2 VDC rated @ 1650 mAh.

AC Adapter Requirements 90 – 130VAC, 50 – 60Hz, 15W max

Charge Time Approx. 4 hours – 100% capacity

Measurements Per Charge 1,000 measurements within 8-hour period

Display 128 x 256 pixel graphical LCD

Data Interface Patented bi-directional RS-232, 300-57,600 baud

Operating Temperature Range

50° to 104°F (10° to 40°C) 85% relative humidity maximum (non-condensing)

Storage Temperature Range -4° to 122°F (-20° to 50°C)

Weight 2.4 lbs. (1.1 kg)

Dimensions

4.3" H 3.3" W 7.7" L (10.9 cm 8.4 cm 19.6 cm)

Accessories Provided

Calibration standards, operation manual, AC adapter, carrying case

Options

Optional remote battery charger and replacement rechargeable battery packs available

¹Based on 20 measurements on a white tile.

* Specifications and design subject to change without notice. X-Rite standards are traceable to National Institute of Standards and Technology, Gaithersburg, Maryland, USA.

