![X-Rite PANTONE®]

964

Portable
Spectrophotometer

Consistent Color Quality

The 964 is an intermediate level 0/45 handheld spectrophotometer that allows you to obtain absolute and differential measurements in the lab, plant or field for a wide range of colorimetric systems. The 964 includes a JOBS feature that displays a programmed sequence of specific steps to guide an operator through the color measurement process, ensuring consistency regardless of operator skill level.

The 964 features an easy-to-read graphical LCD display and a pass/fail mode for fast evaluation of color accuracy against an established standard. When paired with Color iQC or Color iMatch software, it offers increased quality control and color formulation.

Address a Wide Range of Industry Specific Color Needs

- Collects multiple color standards through an identified project when using the PROJECT mode.

- Stores up to 1,024 standards with tolerances for easy pass/fail measurement.

- Captures color data to identify variation in incoming materials and production batches to reduce the color approval cycle and speed time to market.

- Meets CIE certifications including CIE XYZ, CIE Yxy, CIE LAB, Hunter LAB, CIE LCH, CME, CIE94, Whiteness and Yellow.

- Accommodates measurements on a variety of samples with interchangeable apertures.

964 Portable Spectrophotometer

Make it a complete solution

Color iQC

A unique, job-oriented upgradeable color quality control software solution designed to meet evolving color measurement and management requirements in all industrial market segments. Color iQC adapts to existing workflows for fast, easy, and accurate color control. Color iQC is available in a variety of configurations to meet specific industry and quality control requirements.

Color iMatch

A job-oriented color formulation software solution for paint, plastics and textiles, enables accurate color analysis and formulation for a variety of applications. It is PantoneLIVE-enabled, allowing users to retrieve digital color standards from a cloud-based library in addition to or instead of using physical reference standards, which can deteriorate or be measured inconsistently. Color iMatch is available in a variety of configurations to meet most, if not all, industrial color formulation needs.

Specifications

	964
Measurement Time	Approximately 2 seconds
Measurement Geometry	0°/45°, DRS spectral engine, interchangeable apertures: 4mm measurement area/6.5mm target window 7mm measurement area/9mm target window 15mm measurement area/21.5mm target window
Lamp Life	Approximately 500,000 measurements
Power Supply	Removable (Ni-metal hydride) battery pack
AC Adapter Requirements	90 –130VAC or 100-240VAC, 50 – 60Hz, 15W max
Light Source	Gas-filled tungsten lamp
Charge Time	Approximately 4 hours – 100% capacity
Illuminant Types	C, D50, D65, D75, A, F2, F7, F11 & F12
Standard Observers	2° & 10°
Data Interface	Patented bi-directional RS-232, 300 57,600 baud
Spectral Range	400 – 700nm
Detector	Blue-enhanced silicon photodiodes

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Operating Temperature Range	50° to 104°F (10° to 40°C) 85% relative humidity maximum (non-condensing)
Spectral Interval	1,024 standards with tolerances, 2,000 samples
Weight	2.4 lbs. (1.1 kg)
Inter-Instrument Agreement	CIE L*a*b*: 7mm/15mm Avg. 0.15 E*ab based on avg. of 12 BCRA Series II tiles Max. 0.30 E*ab on any tile CIE L*a*b*: 4mm Avg. 0.20 E*ab based on avg. of 12 BCRA Series II tiles Max. 0.40 E*ab on any tile
Dimensions	4.3"H 3.3"W 7.7"L (10.9 cm 8.4 cm 19.6 cm)
Short-Term Repeatability	0.05 E*ab on white ceramic (Standard deviation)
Measurement Range	0 to 200% reflectance
Accessories Provided	Calibration standards, operation manual on CD-ROM, AC adapter and a carrying case

Full list of specifications available at **www.xrite.com/964**

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

Service Support & Warranty

X-Rite's color analysis and measurement solutions are engineered and manufactured to the most rigorous quality standards. These standards are backed by comprehensive global service, superior phone and web support, and preventative maintenance options to optimize your long-term investment. We have developed service support and warranty plans that are unique to your organization's specific products and needs.

Learn more by reviewing our service offerings on our website at: **www.xrite.com/page/service-warranty**.

Still unsure of what you need? Contact us directly at: **servicesupport@xrite.com**