X-rite PANTONE®

Portable & Handheld Sphere Spectrophotometers

964

Consistent color quality in the lab, plant or field

The X-Rite 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. It is ideal for distributed workgroups whose members have varying requirements and skill levels but who must deliver color consistency across the supply chain.

The 964 includes JOBS feature that displays a programmed sequence of specific steps to guide an operator through a color measurement process, ensuring consistency regardless of operator skill level. It features an easy-to-read graphical LCD display and a pass/fail mode that measures against up to 1,024 standards with tolerances that can be stored for easy pass/fail measurement. Its unique Project Mode enables the collection of multiple color standards under an identified project as part of a corporate color standards program.

Benefits:

- The 964 is easy to read and easy to use, regardless of the skill level of the operator. Its Pass/Fail mode is a fast way for users to evaluate color accuracy against an established standard.
- When paired with Color iQC or Color iMatch software, the 964 offers increased control over QC and color formulation activities.
- The 964 captures color data that helps identify variation in incoming materials, production batches and more, reducing the color approval cycle and speeding time to market.
- Its wide colorimetric range meets a number of CIE certifications and includes CIE XYZ, CIE Yxy, CIE LAB, Hunter LAB, CIE LCH, CME, CIE94, Whiteness and Yellow.
- Interchangeable apertures are available to accommodate measurement of a range of samples, and its rechargeable battery allows for remote use.

When used with X-Rite NetProfiler, a cloud-based blend of software and color standards for verifying and optimizing performance of color measurement devices, variance among instruments used in various parts of the color workflow is reduced.

Specifications

Short Term Repeatability - White	0.05 ΔE*ab on white ceramic (Standard deviation)
Measurement Geometry	0/45°
Inter-Instrument Agreement	0.15 ΔE*ab avg. (7mm/15mm) 0.20 ΔE*ab avg. (4mm)
Illumination Spot Size	21.5mm or 9mm and 6.5mm
Lamp Life	Approx. 500,000 measurements
Light Source	Gas-filled tungsten lamp

Measurement Cycle Time	≈ 2 seconds
Measurement Spot	15mm or 7mm and 4mm
Measurement Time	≈ 2 seconds
Photometric Range	0 to 200%
Photometric Resolution	0.01%
Spectral Analyzer	Blue-enhanced silicon photodiodes
Spectral Interval	10nm
Spectral Range	400nm-700nm
Spectral Reporting	10nm
Color Spaces	CIE XYZ, CIE Yxy, CIE LAB, Hunter LAB, CIE LCH,
Illuminants	A, C, D50, D65, D75, F2, F7, F11 & F12
Observers	2° & 10°
Reflectance Aperture(s)	1 or dual
Humidity	5% to 85%, non-condensing

Operating Temperature Range	50° to 104°F (10° to 40°C)
Storage Temperature Range	'-4° to 122°F (-20° to 50°C)
Dimensions (length, width, height)	19.6 cm, 8.4cm, 10.9cm
Weight	1.1 kg
Package Dimensions (length, width, height)	36cm, 30cm, 20cm
Shipped Weight	'4kg
Communication Interface	RS-232
Instrument Display	Graphic LCD
Languages Supported	English, German, French, Spanish, Italian, Portuguese
Software Development Kit	XDS4
Battery	Ni-metal hydride
Battery Life	1,000 measurements (within 8 hours)

Voltage	100-240VAC 50/60Hz, 12VDC @ 2.5A
Sample/Measurement	1024
Standards	2000
Calibration	White and Zero
NetProfiler Support	Tethered
Sample Preview	Targeting window
Warranty	12 months