

PHOENiX SpectroPro

Multifunctional Spectrophotometer

Delivers precise color measurement across diverse materials, ensuring consistent evaluation and effective industrial quality control. Its advanced switchable UV light source enables fluorescent analysis by comparing UV-on and UV-off measurements to assess effects on color, whiteness, and yellowness.



Professional Spectral Measurement

Utilizes D/8 SCI measurement geometry to provide spectral reflectance data and comprehensive color analysis for accurate measurement, comparison, and color-difference evaluation.



Switchable UV Light Source (On/Off)

Enables measurement of both regular and fluorescent materials, allowing comparative analysis of fluorescence effects on color, whiteness, and yellowness.



Large 11 mm Measurement Aperture

Captures color data across a larger sample area in a single scan, minimizing the influence of grain, texture, and localized color variations.



Multi-Illuminant Support and Dual Observer Angles

Supports D50, D65, A, and F-series illuminants, multiple LED light sources, and standard observer angles of 2° and 10° for precise color evaluation.



Comprehensive Color Measurement Parameters

Supports Lab, LCh, XYZ, and multiple color-difference formulas, alongside whiteness, yellowness, blackness, color density, and opacity indices.



Standalone Color Matching

Features standalone color-matching capabilities, customizable color-card libraries, onboard storage for up to 10,000 records, and seamless connectivity with Windows software.

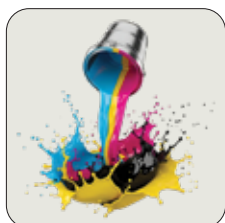


*Confidence
in Every
Measurement.*

Widely used for precise color quality control in a wide range of industries



Coatings



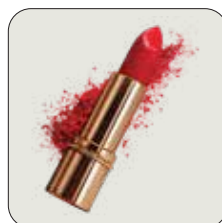
Printing



Plastics



Textiles



Cosmetics



Food

PHOENiX SpectroPro

Technical Specifications

Measurement System

Measurement Geometry	D/8, SCI
Repeatability	dE*ab ≤ 0.03
Display Accuracy	0.01
Measurement Aperture	Ø11 mm
Light Source	Full-band balanced LED light source + UV light source
Spectral Method	Nano-integrated spectral components
Sensor	Silicon photodiode array (Dual 16 groups)
Wavelength Range	400–700 nm
Wavelength Interval	10 nm
Reflectance Range	0–200%
Reflectance Resolution	0.01%
Measurement Mode	Single measurement; average measurement (2–99 times)
Measurement Time	Approx. 1 second

Color Spaces and Measurement Indices

Measurement Indices	pectral Reflectance; CIE-Lab; CIE-LCh; Hunter Lab; CIE-Luv; XYZ; Yxy; RGB; Color Difference (ΔE^*ab , ΔE^*cmc , ΔE^*94 , ΔE^*00); Whiteness (ASTM E313-00, ASTM E313-73, CIE, ISO 2470/R457, AATCC, Hunter, Taube Berger Stensby); Yellowness (ASTM D1925, ASTM E313-00, ASTM E313-73); Blackness (My, dM); Staining Fastness; Color Change Fastness; Tint (ASTM E313-00); CMYK Color Density (A, T, E, M); Metamerism Index (Milm); Munsell; Opacity; Color Strength (Dye Strength, Tinting Strength)
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Illuminants and Standard Observers

Illuminants	A, B, C, D50, D55, D65, D75, F1–F12, CWF, U30, U35, DLF, NBF, TL83, TL84, ID50, ID65, LED-B1, LED-B2, LED-B3, LED-B4, LED-B5, LED-BH1, LED-RGB1, LED-V1, LED-V2
Standard Observer	2° and 10°
Integrating Sphere Ø	40 mm
Standards Complied	CIE No. 15, GB/T 3978, GB 2893, GB/T 18833, ISO 7724-1, ASTM E1164, DIN 5033 Teil 7



Display and User Interface

Screen	Full-color, 3.5-inch touchscreen
Languages	English

Power Supply

Battery Capacity	3.7 V / 2600 mAh (allows up to 10,000 continuous measurements on a single full charge)
Light Lifespan	10 years / 3 million measurements

Connectivity and Software Compatibility

Interface	USB
Software Support	Windows

Storage and Special Features

Storage	Device: 10,000 data records
Special Features	Standalone color matching; supports user-defined color card libraries

For more information please visit <http://www.phoenixmeter.com>

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