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spectro2guide



APPLICATIONS

spectro2guide



1. High-precision d/8 spectrophotometer featuring a fluorimeter

- Precise color hue management using d/8 geometry
- Measuring gloss at a 60-degree angle
- Color management applicable to both fluorescent and non-fluorescent samples
- Exceptional technical capabilities tailored for digital standards
- Advanced data analysis supported by intelligent charting software



2. High-precision 45/0 spectrophotometer equipped with a fluorimeter

- Accurate color control using 45/0 circumferential illumination
- Measuring gloss at a 60-degree angle
- Color management applicable to both fluorescent and non-fluorescent samples
- Exceptional technical performance tailored for digital standards
- Advanced data analysis supported by smart-chart software



1. spectro2guide - d/8 Features

The Spectro2guide represents the next stage in the evolution of color measurement. This instrument integrates a spectrophotometer and a fluorimeter into one portable device. For the first time, it allows for the measurement of color, 60° gloss, and prediction of light fastness.

Key features include:

- Combined color, gloss, and new fluorescence measurement capabilities
- Excellent inter-instrument agreement enables the exchange of digital standards
- Sleek design with a large color touchscreen for user-friendly operation
- Smart docking station features intelligent auto diagnosis to prompt calibration when needed
- Integrated camera provides a live preview of the measurement spot
- High-tech LED illumination ensures excellent short-term, long-term, and temperature stability
- LED light source comes with a 10-year warranty, eliminating the need for lamp changes
- Professional data analysis facilitated by smart-chart software, with options for WiFi or USB data transfer.



2. spectro2guide - 45/0 Features

The Spectro2guide marks a significant advancement in color measurement technology. This device seamlessly integrates a spectrophotometer and a fluorimeter into a single portable unit. For the first time ever, it allows for the simultaneous measurement of color, 60-degree gloss, and prediction of light fastness.

Key features include:

- Comprehensive color, gloss, and new fluorescence measurement capabilities in one device
- Seamless exchange of digital standards thanks to exceptional inter-instrument agreement

- Thoughtfully designed with a balanced and intuitive layout, featuring a large color touchscreen
- Convenient smart docking station equipped with intelligent auto diagnosis to prompt calibration when necessary
- Enhanced user experience with live preview of the measurement spot facilitated by an integrated camera
- State-of-the-art LED illumination ensures outstanding stability across short-term, long-term, and varying temperature conditions
- With a 10-year warranty on the LED light source, users can enjoy peace of mind without the need for lamp changes
- Professional data analysis is made easy with smart-chart software, which supports WiFi or USB data transfer for added convenience.

TECHNICAL SPECIFICATIONS

1. spectro2guide - d/8 Technical Specifications

Measuring Capability	Color, Gloss, Fluorescence
Color Measurement	
Color Geometry	d:8° (spin/spex)
Sample Port	12 mm
Measuring Area	8 mm
Spectral Range Colorimetric	400 - 700 nm, 10 nm resolution
Spectral Range Fluorescence	340 - 760 nm, 10 nm resolution
Measurement Range	0 - 170% reflectance
Repeatability Color	0.01 ΔE94 (10 consecutive measurements on white)
Reproducibility Color	0.1 ΔE94 (average of 12 BCRA II tiles)

Color Systems	CIE Lab/Ch, Lab(h), XYZ, Yxy
Color Differences	ΔE^* ; $\Delta E(h)$; ΔE_{CMC} ; ΔE_{94} ; ΔE_{99} ; ΔE_{2000} ; E2000 PF; $\Delta E_{DIN6175-2019}$
Color Indices	YIE313, YID1925, WIE313, CIE, Berger, Color Strength, Opacity, Metamerism, Grayscale
Illuminants	A, C, D50, D55, D65, D75, F2, F6, F7, F8, F10, F11, UL30, CIE 015:2018 LED Illuminants
Observer	2°, 10°
Fluorescent Indices	ΔE_{FI} , ΔE_{zero}
Gloss Measurement	
Repeatability Gloss 0-20	$\pm 0,1$ GU
Repeatability Gloss 20-100	$\pm 0,2$ GU
Reproducibility Gloss 0-20	$\pm 0,5$ GU
Reproducibility Gloss 20-100	$\pm 1,0$ GU
Gloss Geometry	60°
Gloss Aperture	5 x 10 mm
Measurement Range Gloss	0 - 100 GU
General	
Memory	4.000 Standards and 10.000 Samples
Interface	USB port
Display	3.5 " Color Touchscreen
Languages	English German French Italian Spanish Russian Japanese Chinese
Power supply	Internal rechargeable battery

Power supply	100 - 240 V, 50/60 Hz
Battery	7.2 V, 2350 mAh, 16.92 Wh
Battery Capacity	1200 readings
Weight	1.5 lb
Operating temperature	10 - 40 °C
Storing temperature	0 - 60 °C
Operating temperature	50 - 104 °F
Storing temperature	32 - 140 °F
Relative humidity	Up to 85 % non-condensing at 35 °C (95 °F)
Dimensions: L x W x H	8.7 x 11 x 18.8 cm
	3.4 x 4.3 x 7.4 in

2. spectro2guide - 45/0 Technical Specifications

Measuring Capability	Color, Gloss, Fluorescence
Color Measurement	
Color Geometry	45°c:0°
Sample Port	12 mm
Measuring Area	8 mm
Spectral Range Colorimetric	400 - 700 nm, 10 nm resolution

Spectral Range Fluorescence	340 - 760 nm, 10 nm resolution
Measurement Range	0 - 170% reflectance
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Repeatability Gloss 20-100	$\pm 0,2$ GU
Reproducibility Gloss 0-20	$\pm 0,5$ GU
Reproducibility Gloss 20-100	$\pm 1,0$ GU
Gloss Geometry	60°
Gloss Aperture	5 x 10 mm
Measurement Range Gloss	0 - 100 GU
General	
Memory	4.000 Standards and 10.000 Samples
Interface	USB port

Display	3.5 " Color Touchscreen
Languages	English German French Italian Spanish Russian Japanese Chinese
Power supply	Internal rechargeable battery
Power supply	100 - 240 V, 50/60 Hz
Battery	7.2 V, 2350 mAh, 16.92 Wh
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