spectro2guide

Three in One

Color. Gloss. Fluorescence.
The spectro2guide spectrophotometer represents the next step in the evolution of color measurement. Just like its predecessor, color and 60° gloss are measured simultaneously. Completely new is the quantification of fluorescence by measuring like a fluorimeter with monochrome illuminations. Colorful graphs show the fluorescent results on the display and new fluorescent indices are calculated for easy analysis.

Perfectly formed Design

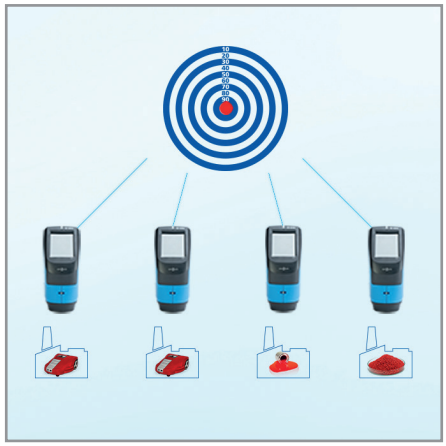
Approachable. Balanced. Upfront.
The new instrument follows a very simple rule, which is not so easy to put into practice: "Form follows function". Due to its balanced and upfront design, the display is always in the right position and easy-to-read, whether on horizontal, vertical, large or small surface areas – even true for overhead work.
You no longer need to bend out of shape for measurement and data reading. The display flips around for you.

Brilliant Color Display

Swipe. Touch. Measure.
As for mobile phones, there is a trend towards ever-larger displays. The new spectro2guide is completely in line with this trend offering a 3.5" color touchscreen – the largest on the market. An icon-based menu, colorful data tables and graphics ensure an intuitive smart phone like operation.
As you are used to, you can touch or swipe with your fingers – it even works when wearing gloves. Alternatively, you also can use a stylus, which is enclosed in the housing – always handy.

BYK LED Technology

High-tech. Smart. Experienced.
Like the predecessor, the spectro2guide uses innovative, high performance LED technology as light sources. Smart testing combined with our long-standing experience guarantees an outstanding performance of the LEDs. Short-term, long-term and temperature stability as well as a homogeneous illumination spot are unsurpassed in the industry. As a result, a superior accuracy and excellent inter-instrument agreement allow use of digital standards. One binding reference eliminates sources of error and physical standards no longer need to be exchanged.
Digital standards bring the complete supply chain on target.



Color Stability Prediction

Excited. Emitted. Shifted.

To quantify fluorescence two new indices, ΔE Fl and ΔEzero are calculated. The index **ΔE Fl** (delta E Fluorescence) indicates whether and how much fluorescent light is emitted by the standard and the sample – important for everybody who wants to avoid any fluorescent ingredients in the product material.

The index **ΔEzero** (delta E without Fluorescence) calculates how the color will change when the fluorescence has degraded. In addition, the spectro2guide calculates how fluorescent specimens will look like under different illuminants ("Fluorescence Metamerism").

Preview with Camera

Strike. Score. Save.

An integrated camera shows a live preview of the measurement spot. To ensure precise positioning and to prevent false readings on imperfections or scratches, the measurement spot is magnified by a factor of 4.5:1. It is so easy – just press the measurement button halfway and the live preview is active.

Smart Docking Station

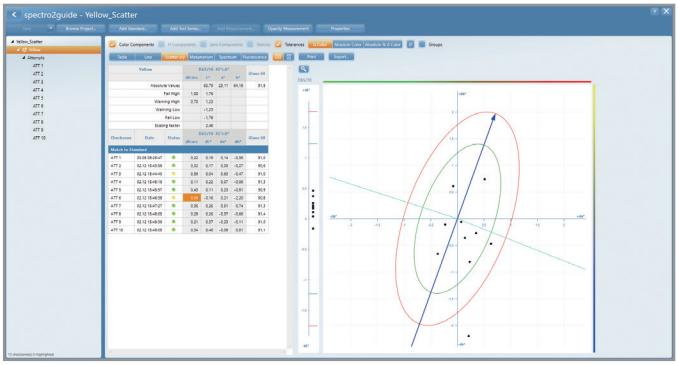
Park. Charge. Control.

As first spectrophotometer on the market, the spectro2guide offers auto diagnosis and an automatic calibration reminder. The spectro2guide with the docking station make a perfect couple – the white checking standard is always protected and a reliable operation is guaranteed.

The docking station automatically charges the instrument. You only have to park the spectro2guide, the rest happens automatically. The smart docking station offers you a 2-in-1 advantage: Be ready at any time, be safe at any time – do not lose time with charging and daily performance checking by hand.

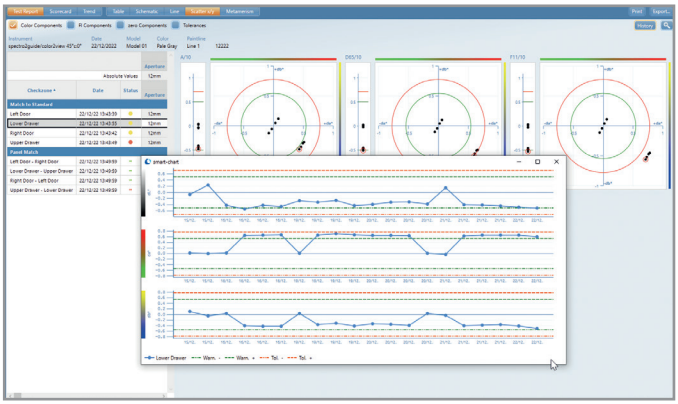
Flexible Data Transfer

Wireless. Boundless. Flawless.
Adaptable to your situation and specific location, the spectro2guide offers three possibilities to transfer data: Via docking station or directly connected with USB cable or wireless with Wi-Fi function. Your data transfer is now guaranteed flawless and not tied down by a cable length.



smart-lab for ONLINE measurement and memory transfer:
- Data analysis in all color systems with scatter and line graphs
- Data is organized in projects with easy to share xml files

smart-process for a STANDARDIZED QC:
- Sampling process with digital standards defined in Organizers
- Comprehensive data analysis with easy filtering and statistical analysis



Gloss Standards

ASTM D 523
ASTM D 2457
DIN 67530
ISO 2813, 7668

Color Standards

ASTM D 2244, E 308
ASTM E 1164
DIN 5033, 5036, 6174
DIN EN ISO 11664

Short Description	spectro2guide, d/8	spectro2guide, 45/0
Catalog Number	7070	7075
Color Geometry	d:8° (spin/spex)	45°c:0°
Measuring Capability	Color, Gloss, Fluorescence	
Spectral Range Colorimetric	400 - 700 nm, 10 nm resolution	
Measurement Range	0 - 170% reflectance	
Sample Port	12 mm	
Measuring Area	8 mm	
Repeatability Color	0.01 ΔE94 (10 consecutive measurements on white)	
Reproducibility Color	0.1 ΔE94 (average of 12 BCRA II tiles)	
Color Systems	CIELab/Ch, Lab(h), XYZ, Yxy	
Color Differences	ΔE*; ΔE(h); ΔECMC; ΔE94; ΔE99; ΔE2000; E2000 PF; ΔE 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°	
Spectral Range Fluorescence	340 - 760 nm, 10 nm resolution	
Fluorescent Indices	ΔE FI, ΔEzero	
Gloss Geometry	60°	
Gloss Aperture	5 x 10 mm	
Repeatability Gloss 0-20	± 0,1 GU	
Repeatability Gloss 20-100	± 0,2 GU	
Reproducibility Gloss 0-20	± 0,5 GU	
Reproducibility Gloss 20-100	± 1,0 GU	
Memory	4.000 Standards and 10.000 Samples	
Languages	DE, EN, ES, FR, IT, JA, RU, ZH	
Interface	USB port	
Battery	7.2 V, 2350 mAh, 16.92 Wh	
Weight	0.7 kg	
	1.5 lb	
Dimensions: L x W x H	8.7 x 11 x 18.8 cm	
	3.4 x 4.3 x 7.4 in	
Operating temperature	10 - 40 °C	
	50 - 104 °F	
Relative humidity	Up to 85 % non-condensing at 35 °C (95 °F)	

Delivery Content

Spectrophotometer, Docking station with built-in diagnosis standard, White calibration standard, Color and gloss test standard, Certificate, Software with 2 licensees for download: smart-lab Color (7083) or smart-process Color (7084), USB to connect docking station to PC (7077), USB cable for data transfer (7078), Stylus (7079), Protective cap (7076), hand strap, Short Instructions, Carrying case, 1-day training

System Requirements

Operating system: Windows® 10 1607 or later
Hardware: i5 2.5 GHz; i9 recommended, or equivalent (x86 & x64 architecture only)
Memory: 16 GB RAM, 32 GB recommended
Free hard-disk capacity: 4 GB during installation
Monitor resolution: 1920 x 1080 pixel; 4K recommended
Interface: free USB-port

Catalog Number	Short Description	Delivery Content
7076	Protective Cap, spectro2guide	
7077	USB Interface Cable, spectro2guide	
7078	Online Cable for spectro2 and 7300	
7079	Stylus, spectro2guide	10 pieces per pack
7083	smart-lab Color	Software with 2 licenses for download
7084	smart-process Color	Software with 2 licenses for download
7073	Positioning Adapter for spectro2	
7080	Docking station for spectro2guide	