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.

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.

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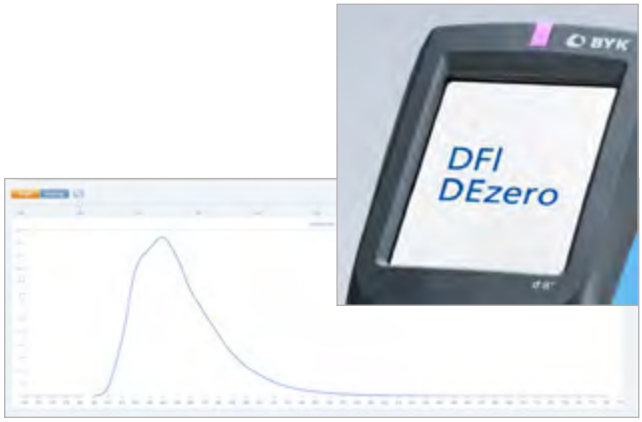
Tricky Fluorescence
Excited. Emitted. Shifted.

To quantify fluorescence two new indices, ΔFl and ΔEzero are calculated. The index ΔFl (delta 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 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").



Smart Docking Station
Park. Charge. Control.

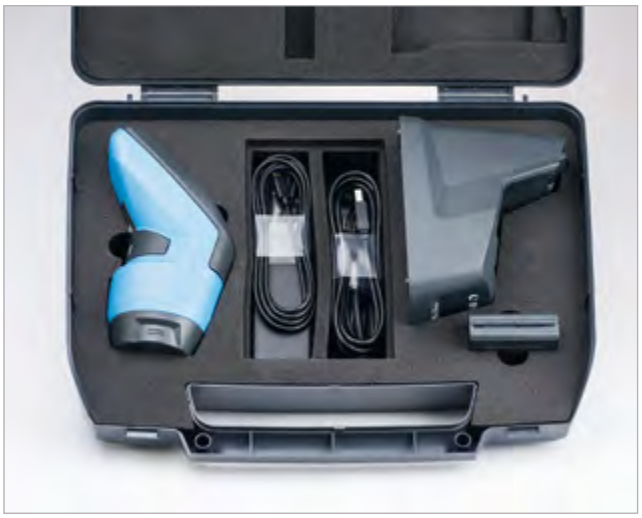
As first spectrophotometer on the market, the spectro2guide offers auto diagnosis and an automatic calibration function. The spectro2guide with the docking station make a perfect couple – the white calibration standard is always protected and a reliable calibration is guaranteed. The docking station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

BYK LED Technology
High-tech. Smart. Experienced.

Like the predecessor, the spectro2guide uses innovative, high-tech 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.

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.



In compliance with:

Standards

	Color	Gloss
ASTM	D 2244, E 308, E 1164	D 523, D 2457
DIN	5033, 5036, 6174	67530
DIN EN ISO	11664	
ISO		2813, 7668

Ordering Information

Cat. No.	Description	Price
7070	spectro2guide, d/8	$ 13,500.00
7075	spectro2guide, 45/0	$ 13,500.00

Comes complete with:
spectro2guide, spectrophotometer
Docking station with built-in calibration standard
Additional calibration standard
Certificate for both calibration standards
Software: smart-chart with 2 licenses
USB cables and WiFi function for data transfer
Protection cap and hand strap
Operating manual
Carrying case
Installation training included

Note: After installation both software packages, smart-lab Color and smart-process Color, can be used for 30 days free trial. Thereafter, the user needs to decided and register for one software package.

System Requirements:
Operating system: Windows® 7 SP1, 8.1 or 10
Microsoft® .NET Framework 4 SP1
Hardware: Core 2 Duo, 2.2 GHz, i7 recommended, or equivalent
Memory: 4 GB RAM, 8 GB recommended
Free hard-disk capacity: 2 GB during installation
Monitor resolution: 1280 x 1024 pixel or higher
Interface: free USB-port

Note: smart-chart licence fee for more than two installations is quantity dependent. Please contact your local BYK-Gardner representative.

Technical Specifications

Color Geometry	Gloss Geometry	Color Aperture	Gloss Aperture
d:8° (spin/spex)	60°	12 / 8 mm	5 x 10 mm
45°c:0°	60°	12 / 8 mm	5 x 10 mm

Color

Spectral Range Color	400 - 700 nm, 10 nm resolution
Spectral Range Fluorescence	340 - 760 nm, 10 nm resolution
Repeatability	0.01 ΔE* (10 consecutive measurements on white)
Reproducibility	0.1 ΔE* (average on 12 BCRA II tiles)
Color Systems	CIELab/Ch; Lab(h); XYZ; Yxy
Color Differences	ΔE*; ΔE(h); ΔEFMC2; ΔE94; ΔECMC; ΔE99; ΔE2000
Indices	YIE313; YID1925; WIE313; CIE; Berger; Color Strength; Opacity; Metamerism; Grayscale; Jetness; ΔFl; ΔEzero
Illuminants	A; C; D50; D55; D65; D75; F2; F6; F7; F8; F10; F11; UL30
Observer	2°; 10°

Gloss

Measurement Range	0-10 GU	10-100 GU
Repeatability	± 0.1 GU	± 0.2 GU
Reproducibility	± 0.5 GU	± 1.0 GU

General Data

Memory	5000 Standards and samples
Languages	English, German, French, Italian, Spanish,Russian, Japanese, Chinese
Battery	7.2 V, 2350 mAh, 16.92 Wh
Power supply	Input 100 – 240 V, 50 – 60 Hz, max. 1 A Output 12 V, max. 3 A
Operating Temperature	10 °C to 40 °C (50 °F to 104 °F) for operation 0 °C to 60 °C (32 °F to 140 °F) for storage
Humidity	Up to 85 % non-condensing at 35 °C (95 °F)
Dimensions	87 x 110 x 188 mm (3.4 x 4.3 x 7.4 in)
Weight	707 g (d/8), 690 g (45/0)