New!

Touch the color with color2view
The revolution in color management

○ **BYK**

Three in One
Color. Gloss. Fluorescence.

The color2view uses circumferential illumination at 45° with 0° viewing angle – to measure color as you see it.

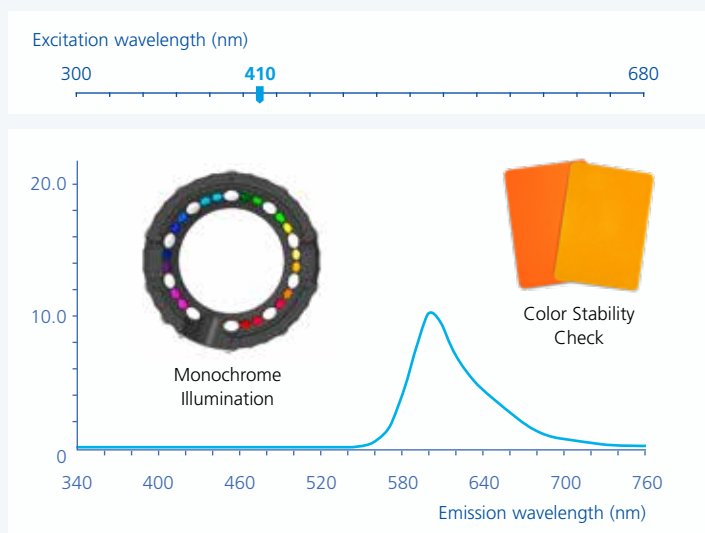Simultaneously 20° and 60° gloss are measured to clearly differentiate medium to high gloss samples.

A new feature is the quantification of fluorescence to predict lightfastness. Colorful graphs show the degree of fluorescence and the calculated color change after fluorescence degradation is displayed with easy to understand CIELAB- and DE data.

Prediction of Lightfastness
Excited. Emitted. Shifted.

The combination of a spectrophotometer with a fluorimeter opens up completely new perspectives to control color quality and guarantee color stability.

Lightfastness is analyzed with proprietary calculations predicting the color change with total color difference DE as well as individual color component deltas DLABCH. The excitation and emission range of fluorescent behavior is displayed with the slider function in smart-lab.

Excitation wavelength (nm)

| 300 | 410 | 680 |

20.0

10.0

0

Monochrome Illumination

Color Stability Check

| 340 | 400 | 460 | 520 | 580 | 640 | 700 | 760 |

Emission wavelength (nm)

High-tech manufacturing and smart LED Technology
High-tech. Smart. Experienced.

Due to the proven BYK LED technology based on stringent selection criteria and a homogenous illumination of the large measurement spot, short-term and long-term repeatability are unsurpassed in the industry.

The temperature behavior of electronic and optical components is controlled to guarantee temperature stability between 10 °C and 40 °C – no need for re-calibration.

All together highest accuracy and inter-instrument agreement are ensured to enable a global color management with digital standards.

smart-chart Software
Global. Efficient. Proactive.

The color2view sensor with onboard display of measurement results is only one of two equal partners needed for a professional quality control system.

The sole data documentation represents only a snapshot of your quality right now. To get a real understanding of your process stability, data needs to be collected and analyzed to guarantee trend recognition and continuous improvement.

Therefore, the color2view comes with the software smart-chart as a complete system. A powerful standard management module lets you pick the right color system with tolerances and define standard measurement conditions. The data can be stored in a SQL-database for efficient data handling of large data sets or in projects files (XML format) for easy communication exchange. The professional data analysis provides a comprehensive and flexible data analysis and yet is easy to use with pre-configured graphs.
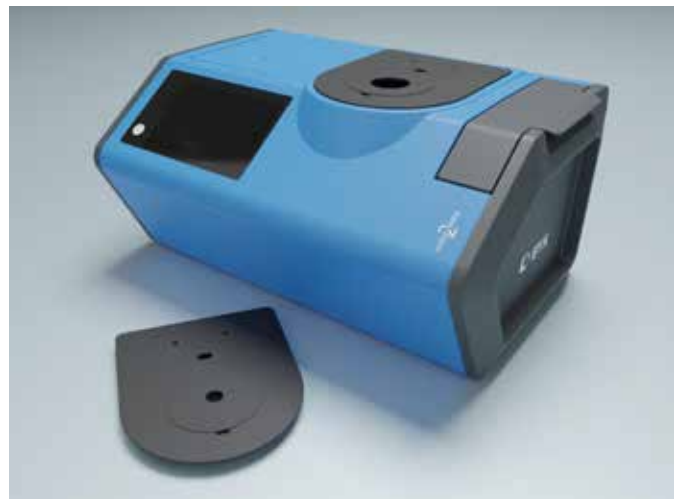
color2view Pro
Ultimate. Top. Unsurpassed.

The color black has always been a special challenge for color measurement and puts the quality of a spectrophotometer to the ultimate test. Since hardly any light is reflected from the sample, the measured values are affected by so-called instrument noise and can vary considerably from one instrument to the next.

The color2view Pro features excellent technical performance which also is assured for the very low reflectance range R < 0.1 %. Additional control and calibration steps during the production process as well as a special Jetness mode with higher light energy guarantee repeatable and reliable measurement results even for the deepest black.
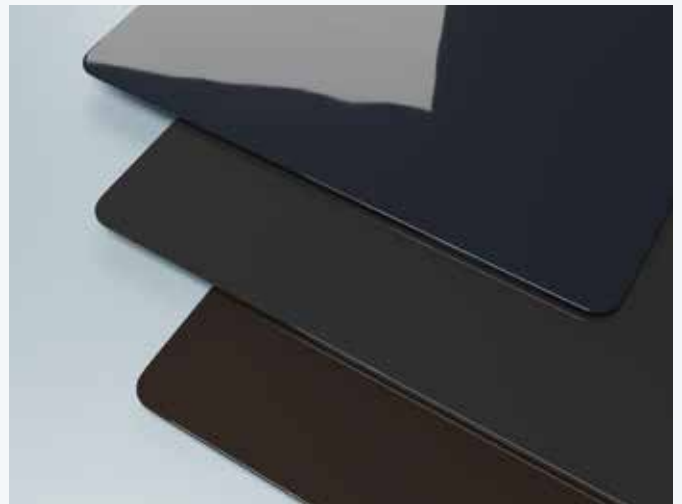
color2view X
Flexible. X-change. Match.

Adaptability to change is an essential key to sustainable success. This is also essential for measuring tools used for quality control. Over the life of a benchtop spectrophotometer, the products to be tested, and thus, the handling requirements can change. We have equipped the color2view X with intelligent, exchangeable apertures to make it flexible and future-proof.

Perfectly Formed Design
Turnable. Balanced. Compact.

Samples of different sizes and shapes can be a challenge for proper instrument positioning and can turn the workflow upside down.

The new color2view even has two sample openings "top and front" to best suit your application. Turning the instrument is easy thanks to its compact and lightweight design.

Global Color Management
Digital. Cross-Family. Pioneering.

Measurement needs are different within a supply chain. A paint or plastic pellet manufacturer prefers a benchtop instrument to repeatably measure panels or granulates in the laboratory, while finished goods need to be directly controlled at the production line where portable instruments are required. To set-up a seamless global color management system the same binding standards need to be used by all involved parties.

For the first time ever in the industry, digital standards can be exchanged between benchtop and portable color instruments. Due to the excellent intra-instrument agreement between color2view and spectro2guide, the seamless use of digital standards has become reality – without any extra-profiling.

The new generations of spectro2guide and color2view open up completely new horizons.
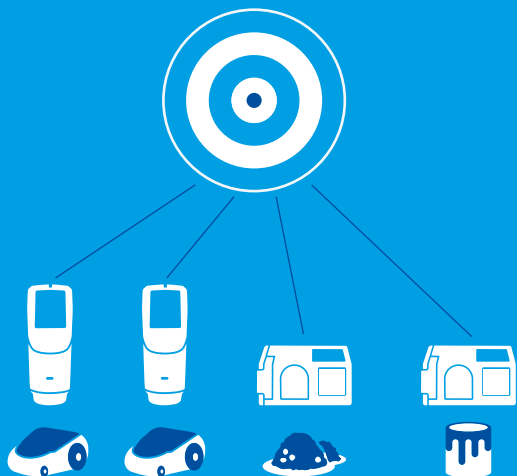
Positioning of Samples
Soft. Invisible. Handy.

How to make sample handling easy and ensure repeatable positioning?

Our smart sample holder can be stored flat in the housing of the measuring instrument when not in use. On its way to the aperture, it can be parked at several positions so that sensitive samples can be picked up with 2 hands – without having to hold the sample holder. During the measurement, it fixes the sample in its intended place and after the work is done, it closes gently thanks to the soft-close function.

Storage of Standards

Always at hand. Tidy. Protected.

It's often the little things that make life a lot easier: a light switch in the right place, a cup holder in the optimal size and position... For this reason, we have given a lot of thought to easy handling and operation. The result is a storage compartment for standards. This way, the standards are always at hand and well protected.

Brilliant Color Display

Swipe. Touch. Measure.

The color2view offers a brilliant, capacitive touchscreen and an icon-based navigation to offer an intuitive, smartphone like operation. You can touch and swipe without pressure – it even works wearing gloves.

Preview with Camera

Strike. Score. Save.

An integrated camera permits a live preview of the measurement spot. This prevents false readings on imperfections or scratches and ensures precise positioning of the sample.

Product name	color2view	color2view X	color2view Pro	color2view Pro X
Catalog number	7600	7604	7610	7605
Color Geometry	45°c:0°			
Measuring capability	Color, Gloss, Fluorescence		Color, Gloss, Fluorescence, Jetness	
Measurement Range Color	400 – 700 nm, 10 nm resolution			
Measurement Range Fluorecence	300 – 760 nm, 10 nm resolution			
Color Aperture/Measurement spot	Ø 32/22 mm	Ø 32/22 mm Ø 12/08 mm	Ø 32/22 mm	Ø 32/22 mm Ø 12/12 mm Ø 04/04 mm
Repeatability Color	0.01 ΔE94 (10 readings on white)			
Reproducibility Color	0.1 ΔE94 (average of 12 BCRA tiles)			
Color Systems	CIELab/Ch, Lab (h), XYZ, Yxy			
Color Differences	ΔE*, ΔE(h), ΔECMC, ΔE94, ΔE99, ΔE2000, ΔE2000PF			
Illuminants	A, C, D50, D55, D65, D75, F2, F6, F7, F8, F10, F11, UL30			
Observer	Observer 2°, 10°			
Color Indices	YIE313, YID1925, WIE313, CIE, Berger, Color Strength, Opacity, Metamerism, Grayscale			
Fluorescent Indices	ΔEFL, ΔEzero			
Jetness Indices			My, Mc, dM, Gy, Gc, dG	
Repeatability Jetness			± 0.003 (for Y < 0.5)	
Gloss Geometry	60°			
Gloss Aperture	9 × 16 mm			
Repeatability Gloss for Measurement Range 0 – 20 GU	± 0.1 GU			
Repeatability Gloss for Measurement Range 20 – 100 GU	± 0.2 GU			
Reproducibility Gloss for Measurement Range 0 – 20 GU	± 0.5 GU			
Reproducibility Gloss for Measurement Range 20 – 100 GU	± 1.0 GU			
Gloss Geometry	20°			
Gloss Aperture	10 × 9 mm			
Repeatability Gloss for Measurement Range 0 – 100 GU	± 0.2 GU			
Reproducibility Gloss for Measurement Range 0 – 100 GU	± 1.0 GU			
Memory	4,000 standards and 10,000 samples			
Languages	English, French, German, Italian, Spanish, Russian, Japanese, Chinese			
Interface	USB-cable, LAN			
External power supply	12 V DC; max. 3 A			
Weight	ca. 7000 g (15.5 lb)			
Dimensions	26 × 39 × 19 cm (10.2 × 15.35 × 7.5 in)			
Temperature Range Operation	+10 – 40 °C (+50 – 104 °F)			
Temperature Range Storage	0 – 60 °C (+32 – 140 °F)			
Rel. Humidity	Up to 85 % at 35 °C (95 °F), non-condensing			

Comes complete with (All products)

color2view
White calibration standard
Color and gloss test standard
Certificate
Software with 2 licensees for download: smart-lab or smart-process Color
USB cable for data transfer
Power Supply
Short Instructions
1-day training

Additional (color2view X)

Accessories for Adjustment:
Medium aperture plate (12)
Tool Kit for aperture change (#7606)

Additional (color2view Pro)

Accessories for Jetness:
Grey calibration standard
Black test standard
LED flashlight to check cleanness

Additional (color2view X Pro)

Accessories for Jetness:
Grey calibration standard
Black test standard
LED flashlight to check cleanness

Accessories for Adjustment:
Medium aperture plate (12)
Small aperture plate (4)
Tool Kit for aperture change (#7606)

www.byk-instruments.com