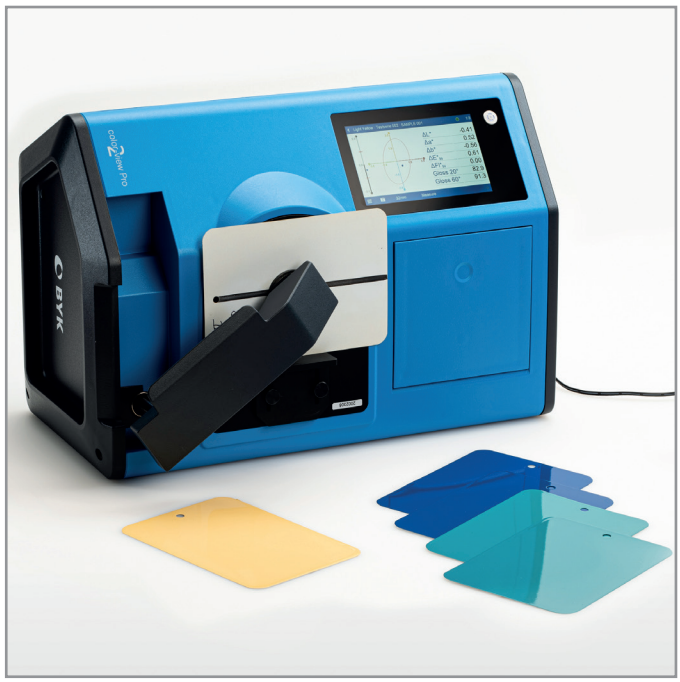
color2view

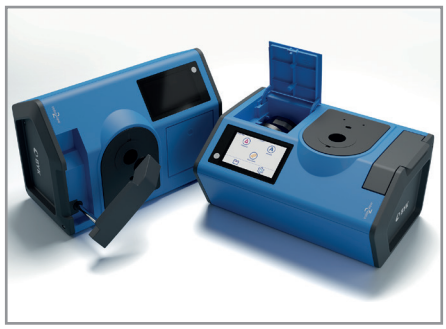
Three in One

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.



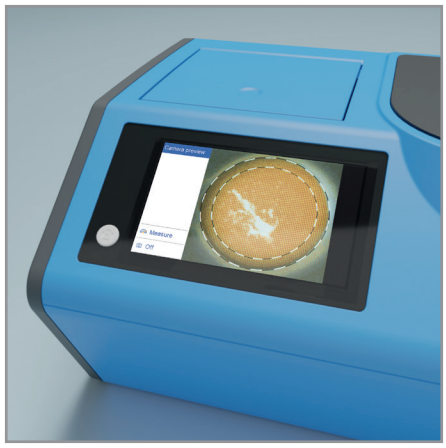
Perfectly Formed Design

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.



Brilliant Color Display

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

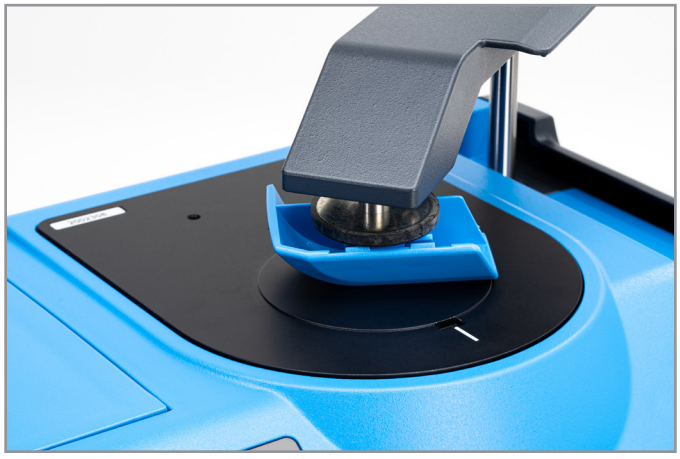


Storage of Standards

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.

Positioning of Samples

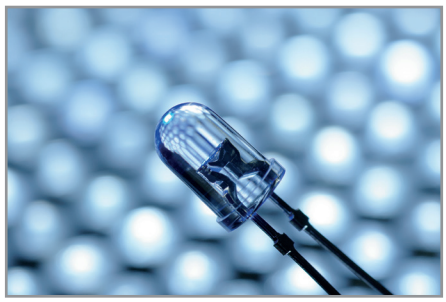
Soft. Invisible. Handy.
How to make sample handling easy and ensure repeatable positioning? Our smart sample holder can be stored flat in the housing of the measuring instrument when not in use. On its way to the aperture, it can be parked at several positions so that sensitive samples can be picked 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.



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.

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.

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.

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 two intelligent, exchangeable apertures to make it flexible and future-proof.

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.

Gloss Standards

ASTM D 523, 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

Catalog Number	7600	7604
Short Description	color2view	color2view X
Color Geometry	45°c:0°	
Measuring Capability	Color, Gloss, Fluorescence	
Spectral Range Colorimetric	400 - 700 nm, 10 nm resolution	
Measurement Range	0 - 170% remission	
Sample Port	32 mm	32 mm, 12 mm
Measuring Area	22 mm	22 mm, 08 mm
Repeatability Color	0.01 ΔE94 (10 readings on white)	
Reproducibility Color	0.1 ΔE94 (average of 12 BCRA II tiles)	
Color Systems	CIELab/Ch, Lab (h), XYZ, Yxy	
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 Normlicht	
Observer	2°, 10°	
Spectral Range Fluorescence	300 - 760 nm, 10 nm resolution	
Fluorescent Indices	ΔE FI, ΔEzero	
Gloss Geometry	20°, 60°	
Gloss Aperture	9 x 10 mm (20°); 9 x 16 mm (60°)	
Repeatability Gloss 0-20	± 0.2 GU (20°) ± 0.1 GU (60°)	
Repeatability Gloss 20-100	± 0.2 GU (20°/60°)	
Reproducibility Gloss 0-20	± 1.0 GU (20°) ± 0.5 GU (60°)	
Reproducibility Gloss 20-100	± 1.0 GU (20°/60°)	
Display	5" Capacitive Color Touchscreen	
Memory	4,000 standards and 10,000 samples	
Languages	DE, EN, ES, FR, IT, JA, RU, ZH	
Interface	USB-cable, LAN	
Power supply	12 V DC; max. 3 A	
Operating temperature	10 - 40 °C	
	50 - 104 °F	
Relative humidity	Up to 85% at 35 °C (95 °F), non-condensing	
Dimensions: L x W x H	39 x 26 x 19 cm	
	15.35 x 10.2 x 7.5 in	
Weight	7 kg	
	15.5 lb	

Delivery Content

color2view, White calibration standard, Color and gloss test standard, Software with 2 licensees for download:, smart-lab or smart-process Color, USB cable for data transfer, Power Supply, Short Instructions,
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
7083	**smart-lab Color**	Software with 2 licenses for download
7084	**smart-process Color**	Software with 2 licenses for download
7603	**Automatic Sample Rotator**	Automatic Rotator Rotator Cup Glass Sample Plate (6135) Aperture Plate for Cuvette (7614) Plate Key (7613)
7607	**Granules Measurement Kit**	Glass Sample Cup, Sample Cup Cover, Aperture Plate for Glass Cuvette, Glass Sample Plate, Plate Key
7614	**Aperture Plate for Glass Cuvette**	
6136	**Glass Sample Cup, color-view, color2view**	
7609	**Sample Cup Cover, color2view**	
6135	**Glass Sample Plate**	
7613	**Plate Key**	