

# 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.



## 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.



## Storage of Standards

### Always at hand. Tidy. Protected.

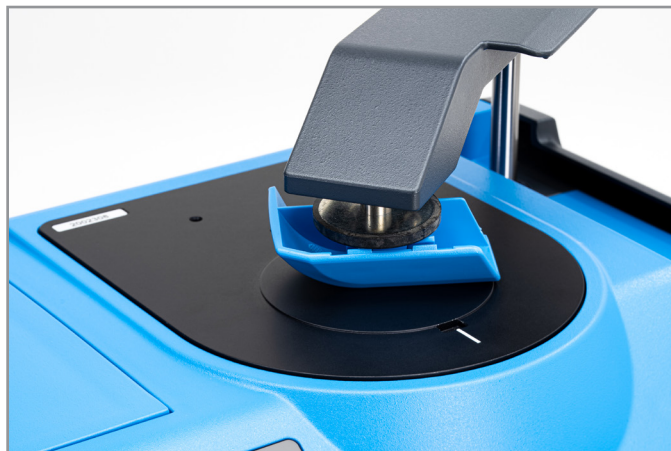
It's often the little things that make life a lot easier: a light switch in the right place, a cup holder in the optimal size and position... For this reason, we have given a lot of thought to easy handling and operation. The result is a storage compartment for standards. This way, the standards are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

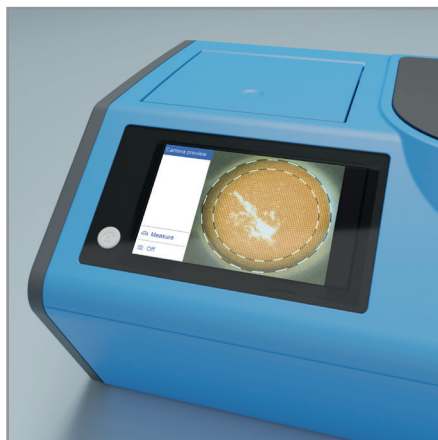


## Brilliant Color Display

### 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.

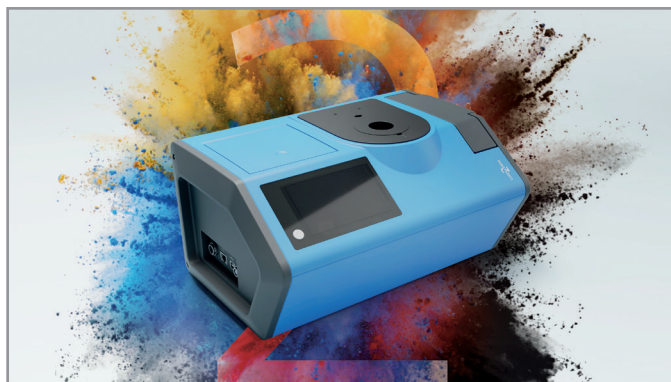
An integrated camera permits a live preview of the measurement spot. This prevents false readings on imperfections or scratches and ensures precise positioning of the sample.



## Four in One

### Color. Gloss. Fluorescence. Jetness.

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. In addition, it allows quality control of the deepest blacks with unsurpassed accuracy through a special jetness mode.



## 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 Pro 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 Pro X with three 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 smartchart 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	7610	7605
Short Description	color2view Pro	color2view Pro X
Color Geometry	45°c:0°	
Measuring Capability	Color, Gloss, Fluorescence, Jetness	
Spectral Range Colorimetric	400 - 700 nm, 10 nm resolution	
Measurement Range	0 - 170% remission	
Sample Port	32 mm	32 mm, 12 mm, 04 mm
Measuring Area	22 mm	22 mm, 08 mm, 04 mm
Repeatability Color	0.01 ΔE94 (10 readings on white)	
Reproducibility Color	0.1 ΔE94 (average of 12 BCRA II tiles)	
Color Systems	CIE Lab/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	
Jetness Indices	M <sub>v</sub> , Mc, dM, G <sub>v</sub> , Gc, dG	
Reproducibility Jetness	Y ≤ ± 0.003 (Y<0.5)	
Repeatability Jetness	Y ≤ ± 0.0005	
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, Grey calibration standard for Jetness, Black color standard for Jetness testing, Certificate, Software with 2 licensees for download; smart-lab Color or smart-process Color, USB cable for data transfer, Power Supply, LED flashlight to check cleanness, 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	