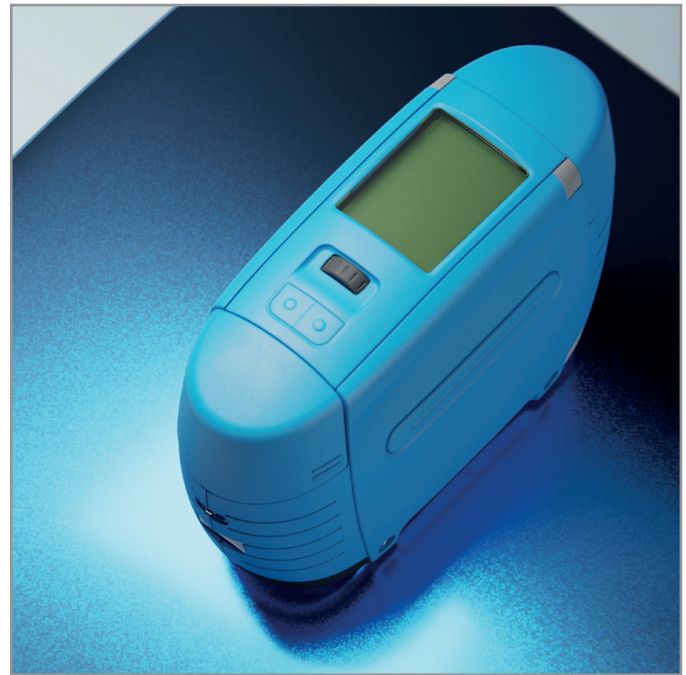


BYK-mac i COLOR

Multi-angle color measurement

In order to control the lightness and / or color flop of an effect finish, the color needs to be measured under different viewing angles. BYK-mac i COLOR spectrophotometer offers an attractive solution by measuring

- Traditional 5-angle color at 15°/25°/45°/75°/110°
- An additional angle at -15° "behind the gloss" for color travel of interference pigments



Ergonomic design and easy operation

The shape of the instrument is designed to ensure easy handling and true portability. With an intuitive menu quality control of metallic finishes has never been easier.

- Menu guided operation according to your own sampling procedure
- Designated buttons for standard and sample readings
- Scroll wheel to select menu functions
- Large color display - easy-to-read inside and outside
- Storage of up to 1000 readings in selectable memories
- 4 trigger pins on the bottom plate guarantee stable positioning even on curved surfaces

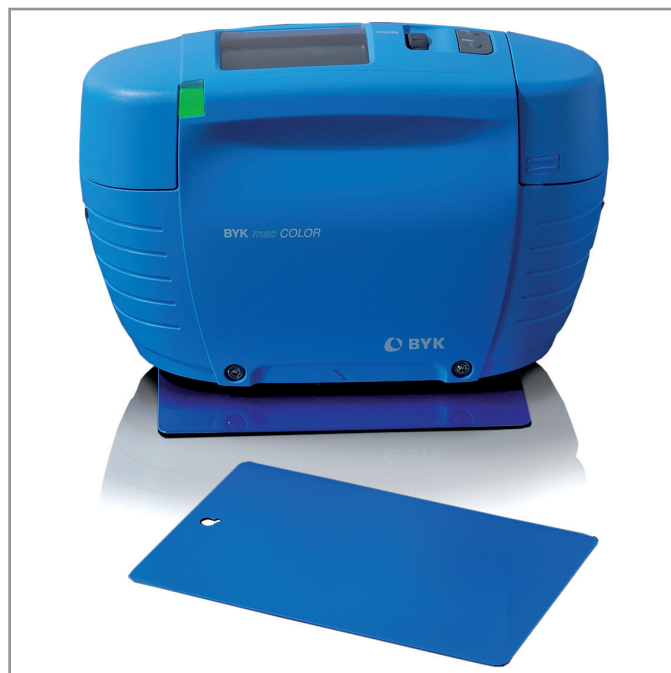


Hood	D65/10° 3/3			
	ΔL^*	Δa^*	Δb^*	ΔE^*
-15°	0.05	0.11	-0.03	0.12
15°	0.05	0.08	-0.06	0.11
25°	-0.14	0.05	-0.11	0.19
45°	-0.22	0.02	0.13	0.26
75°	-0.13	0.15	0.32	0.38
110°	0.12	0.18	0.34	0.40
			ΔE^*	0.27
Light Silver				
Model 1				

Reliable readings at any time

The BYK-mac i COLOR uses a light source with long term stability and patented illumination control which provide superior accuracy and low maintenance for many years.

- Stable, long-term calibration - needed only every three months
- Temperature independent measurement results between 10 - 40°C - without calibration
- Excellent agreement between instruments allowing usage of digital standards among the supply chain
- 10 year warranty on the light source - no lamp changes needed



Quantification of Fluorescent Light

The BYK-mac i COLOR spectrophotometer is equipped with additional sensors to detect fluorescent light excited in the visible range. The Intensity Emission value quantifies the fluorescent light and can be used as a preliminary indicator for light fastness.

Always ready

The instrument is operated with a rechargeable battery pack (Li-Ion). The docking station automatically charges the battery pack in the instrument as well as a spare pack located in the docking station. Optionally the instrument can be operated with 4 standard mignon alkaline or rechargeable batteries. The docking station also transfers the measured data to a PC. For professional analysis, documentation and data management smart-chart software is included.



Sample Holder for precise positioning on panels

To guarantee repeatable sample placement and reliable measurement results, two different sample holders are available.

Holder for non-magnetic panels

The holder is equipped with a mask to fit the aperture of the BYK-mac i 23 mm and a tilting handle to fix the instrument in a vertical position.

- Flexible sample presentation: The sample table can be used for flat panels as well as for centering fandeck stripes with a positioning tool.
- Minimum sample size: 70 x 60 mm
- Maximum distance between measurement spot and back rail: 50 mm



Holder for magnetic panels

The smart-clamp holder is equipped with a closable fixture to keep the BYK-mac i in a horizontal position. On the opposite side a handle with a magnetic disc firmly holds magnetic substrates such as typical paint panels. The disc is rotatable, snapping in at quarterly positions. Thus, multiple readings from different directions on the same sample spot can be done – reduced operator influence guaranteed!

- Minimum sample size: 50 x 50 mm
- Maximum distance between measurement spot and bottom plate: 130 mm



Standards

ASTM D 2244, E 308,
E 1164, E 2194
DIN 5033, 5036, 6174,
DIN 6175
DIN EN ISO 11664
SAE J 1545



Catalog Number	7032	7033
Short Description	BYK-mac i COLOR	BYK-mac i COLOR Sensor
Measuring Area	23 mm diameter	
Software	with software	without software
Color Geometry	45° illumination; -15°, 15°, 25°, 45°, 75°, 110° aspecular viewing	
Spectral Range Colorimetric	400 - 700 nm, 10 nm resolution	
Measurement Range	0 to 600 % reflectance	
Repeatability Color	0.01 ΔE^* (10 consecutive measurements on white)	
Reproducibility Color	Grey BCRA II tiles: avg. ΔE^* < 0.10 Chromatic BCRA II tiles: avg. ΔE^* < 0.25	
Color Scales	ΔE^* ; ΔE CMC; ΔE 94; ΔE 2000; ΔE 99; ΔE DIN6175-2019 and customer specific scales	
Color Indices	Flop, Int-Em	
Illuminants	A; C; D50; D65; F2; F7; F11; F12; CIE 015:2018 LED illuminants	
Observer	2°; 10°	
Measuring time	< 4 seconds	
Memory	1000 standards / samples	
Display	2.7 in. TFT color LCD display	
Languages	DE, EN, ES, FR, IT, JA, RU, ZH	
Power supply	Rechargeable battery pack or 4 mignon AA batteries (alkaline or rechargeable)	
Dimensions: L x W x H	21.8 x 8.1 x 14.7 cm 8.6 x 3.2 x 5.8 in	
Weight	1.3 kg 2.9 lb	
Operating temperature	10 - 42°C 50 - 110 °F	
Relative humidity	up to 85%, 35° C (95° F); non-condensing	

Delivery Content

Multi-angle spectrophotometer, Black calibration standard (7044), White calibration standard with certificate, Color checking tile, Docking station with USB cable for data transfer (6360), Instrument interface cable for online data transfer (6413), Protective cap (6336), 2 light protection covers (6414), Seal replacement kit (6348), Cleaning set (6364), 2 rechargeable Li-ion battery packs (6359), Battery holder, 4x AA batteries, Software with 2 licenses for download, smart-lab Color (4862) or smart- process (4831), 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
7044	Black Standard BYK-mac i	
6336	Protective Cap, BYK-mac i 23 mm	
6360	Docking Station, BYK-mac i	Docking station USB Interface Cable Charger 100 - 240 V self adapting
6337	USB Interface Cable for 6360, 6072-6075	
6413	Online Cable, BYK-mac i	
7052	WIFI Adapter BYK-mac i	
6359	Battery Pack, BYK-mac i	
6364	Cleaning Set, BYK-mac i	
6414	Light Protection Cover, BYK-mac i	
6348	Seal Replacement Kit, BYK-mac i	3 light protection rubber seals 8 rubber pin covers
4862	smart-lab Metallic	Software with 2 licenses for download
4831	smart-process	Software with 2 licenses for download
6897	Sample Holder BYK-mac i 23 mm	
7053	smart-clamp BYK-mac i	