

Spectrophotometric Colorimeter



Application:

Spectrophotometric colorimeter is widely used in plastic, electronic, painting, coating, ink, textile, garment, printing and dyeing, food, medical, cosmetic, industries, scientific research institutes, schools and laboratories. It can measure reflectance spectrum and other color index precisely. BCM-810 spectrophotometer not only can help to perform color matching and color management studies, but also can control product quality management accurately. The instrument is equipped with high-end color management software which can connect PC to achieve more extension functions.

Technical Parameters:

Model	BCM-810
Illumination/Observation System	d/8(diffused illumination, 8-degree viewing angle) Conforms to CIE No.15, GB/T 3978
Integrating Sphere Size	Φ58mm
Light Source	Combined LED sources
Sensor	Silicon photodiode array
Wavelength Range	400~700nm
Wavelength Pitch	10nm
Reflectance Range	0~200%
Measuring Aperture	Φ8mm
Color Space	CIE LAB, XYZ, Yxy, LCh, CIE, LUV
Color Difference Formula	ΔE*ab, ΔE*uv, ΔE*94, ΔE*cmc(2:1), ΔE*cmc(1:1), ΔE*00
Other Chromaticity Data	WI(ASTM E313, CIE/ISO, AATCC, Hunter), YI(ASTM D1925, ASTM 313), metamerism index(Mt), color strength, color stain, color fastness, opacity
Observer	2°/10°

Model	BCM-810
Illuminant	D65, D50, A, C, D55, D75, F1, F2(CWF), F3, F4, F5, F6, F7(DLF), F8, F9, F10(TPL5), F11(TL84), F12(TL83/U30)
Display Data	Spectral value/Graph, Colorimetric value, Color difference value/Graph, Pass/Fail result, Color offset, Color simulation
Measurement Time	1.5s
Repeatability	Spectral reflectance: Standard deviation within 0.1% Colorimetric value: Standard deviation within ΔE*ab 0.04 (Measurement conditions: White calibration plate measured 30 times at 5 seconds intervals after white calibration was performed.)
Inter Instrument Agreement	Within ΔE*ab 0.2 (Average for 12 BCRA Series II color tiles)
Battery	Li-ion battery. 2800 times within 8 hours.
Lamp Life	5 years, more than 1.6 million measurements
Display	3.5 inch TFT LCD, Capacitive touch screen
Interface	USB/RS-232
Data Memory	1000 Standards, 15000 Samples
Ambient Temp.	0~40°C (32~104°F)
Storage Temp.	-20~50°C (-4~122°F)
Standard Accessory	Power adapter, Li-ion battery, operating instruction, PC software(Download from office website), data line, white and black calibration cavity, protective cover, wrist strap
Optional Accessory	Universal test components, micro printer, powder test box
External Size(W*D*H)	90*77*230mm
Package Size(W*D*H)	370*170*310mm
Net Weight	600g
Gross Weight	3kg
Notes	The specifications are subject to change without notice