



## COLORIMETER

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A colorimeter is an instrument that determines the amount of light that passes through a solution in comparison through a pure solvent. A photocell in the colorimeter detects the amount of light passing through the solution and converts it into an electrical signal. Light absorption and the current produced by the photocell is increased by higher concentrations and colors.

## 800 COLORIMETER



## SPECIFICATIONS

Model	BMET-804	BMET-805	BMET-806	BMET-807
Optical Geometry	8°/D	45°/0°	8°/D	
Standards compliant	CIE No.I5, GB/T 3978	CIE No.I5, GB/T 3979	CIE No.I5, GB/T 3980	CIE No.I5, GB/T 3981
Sensor	Silicon Photoelectric Diode Array			
Measuring Aperture	Φ 8 mm flat, Φ 4 mm sharp	Φ 20 mm	Φ 4 mm flat, Φ 4 mm sharp	Φ 4 mm
Color Space	CIE LAB, LCh,XYZ, CIE RGB,CIE LUV	CIE LAB,XYZ, LCh	CIE LAB, LCh,XYZ	CIE LAB, LCh
Observer	CIE 10° Standard observer			
Illuminant	D65,A,C,D50,F2,F6,F7,F8,F10,F11,F12	D65		
Displayed Data	Chromaticity Values, Color Difference Values, Pass/Fail Result, Color Offset/Deviation Direction			
Measurement Time	1.5 s			
Repeatability	ΔE*ab 0.03	ΔE*ab Within 0.08 (average value for 30 times)	ΔE*ab 0.08	ΔE*ab 0.03
Inter-instrument agreement	ΔE*ab Within 0.4 (average value for measuring BCRA series II 12pcs palettes)			
Size	205x67x80 mm			206x67x80 mm
Weight	500 g	About 400g(including battery)		
Battery Performance	Rechargeable Li-on Battery, 3.7V@3200 m A h	Rechargeable Li-on Battery, 3.7 V @ 3200 mAh		
Lamp Life	5 years, more than 1.6 million measurements			
Display	TFT Color 2.8inch@ (16:9)			
Interface	USB			
Data Storage	Standard: 100, Sample: 20000			Standard: 100, Sample: 10000

Operating Environment	0~40 °C (32~104 °F)	1~40 °C (32~104 °F)
Storage Environment	- 20~50 °C (-4~122 °F)	
PC Software	CQCS3 software	
Standard Accessories	Power adapter, manual, quality management software (official website download), USB cable, wristband	-
Optional Accessories	Micro Printer, Powder Test Box	



BMET-804



BMET-805



BMET-806



BMET-807

## 800 COLORIMETER



Built-in white plate parameters. No need to calibrate each time which can perform measurement quickly.

Double Locating: Illuminating locating and precise cross locating.

Switchable Double Measurement End Face: Large stable end face and small concave-convex end face.

New 45°/0° Optical Path Design: Significantly improve the measurement stability and precision.

8mm Measuring Aperture.

Equipped with rechargeable high-capacity Li-ion battery. No need to purchase battery repeatedly.

Configure CQCS3 software. Connect PC computer to realize more functions.

Having got SCM Metrological Certification, CE Certification, and ISO9001 Quality Management System Certification.

Hand-head structure: small and convenient; make the measurement easier.

Exquisite appearance: adopts traditional and fashionable aesthetic designs.

## SPECIFICATIONS

Model	BMET-809	BMET-810
Optical Geometry	45°/0°	8°/D
Standards compliant	CIE No.15,GB/T 3978.	
Sensor	Silicon Photoelectric Diode Array	
Measuring Aperture	Φ8mm flat	Φ8mm flat and Φ4mm tip
Color Space	CIE LAB XYZ Lch	CIE LAB
Observer	CIE 10° Standard observer	
illuminant	D65	
Displayed Data	Chromaticity Values, Color Difference Values/Graph, PASS/FAIL Result, Color Offset/ Deviation direction	

Measurement Time	1.5 s	
Repeatability	$\Delta E^*ab$ within 0.08 (average value for 30 times)	$\Delta E^*ab$ 0.08
Inter-instrument agreement	$\Delta E^*ab$ Within 0.4 (Average value for measuring BCRA Series II 12pcs plattes)	
Operating Environment	0~40°C(32~104°F)	
Storage Environment	-20~50°C(-4~122°F)	
Battery Performance	Rechargeable Li-on Battery, 3.7 V @ 3200 mAh	
Lamp Life	5 years, more than 1.6 million measurements	
Display	TFT Color 2.8inch@ (16:9)	
Interface	USB	
Data Storage	Standards:100 samples: 20000	Standards:100 samples: 10000
PC Software	CQCS3 software	/
Standard Accessories	Power Adapter, manual, Quality management software (official website download), USB cable, Wristbands	
Optional Accessories	Micro Printer, powder test box	
Size	205x67x80 mm	
Weight	About 400g(including battery)	



BMET-809



BMET-810



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