COLORIMETERS



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A Colorimeter is a device that is designed to measure & quantify the absorption of distinct wavelengths of light across a range of solutions. When a monochromatic light passes through the colored solution, a specific portion of light is absorbed while rest is transmitted. Absorption depends on color intensity. In QC, colorimeters are used to check the consistent color of manufactured products such as paints, textiles, etc.

Used in Paint and Varnish Industry, Food and Publishing Industry. Also known as Photo Spectrometer.

LTMET13 COLORIMETER



SPECIFICATIONS

Model	LTMET13-5	LTMET13-6	LTMET13-7	LTMET13-8
Optical Geometry	8°/D 45°/0° 8		8°/D	
Standards compliant	CIE No.15, GB/T 3978	CIE No.15, GB/T 3979	CIE No.15, GB/T 3980	CIE No.I5, GB/T 3981
Sensor	Silicon Photoelectric Diode Array			
Measuring Aperture	Φ 8 mm flat, Φ 4 mm sharp	Ф 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	55,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 0.03
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 Rechargeable Li-on Battery, 3.7 V @ 3200 mAh		' 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		Power adapter, manual, quality management software (official website download), USB cable, wristband
Optional Accessories	Micro Printer, Powder Test Box		









LTMET13-5

LTMET13-6

LTMET13-7 LTMET13-8

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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 concaveconvex 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	LTMET13-9	LTMET13-10	
Optical Geometry	45°/0°	8°/D	
Standards compliant	CIE No.15,GB/T 3978.		
Sensor	Silicon Photoelectric Diode Array		
Measuring Aperture	Ф8mm flat	Ф8mm flat and Ф4mm 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	ΔE*ab within 0.08 (average value for 30 times)	ΔE*ab 0.08	
Inter-instrument agreement	ΔE*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)		



Labtare Analytical Instruments

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