

COLORIMETER



MAKE THE MEASUREMENT EASIER

NR60CP

High cost-effective precise colorimeter features with powerful functions and excellent innovation technology.

PRODUCT FEATURES

1. 8mm and 4mm double aperture for switch, easy to measure concave sample in large plane
2. More stable and accurate, $\Delta E^*ab < 0.05$
3. Many color spaces, many color indexes, extensive applicability
4. Double locating: illuminating locating and cross locating
5. Equipped with rechargeable high-capacity li-ion battery
6. Built-in white plate parameters, and configuration of physical whiteboard, easy to operate;
7. New integrating sphere optical path design, more stable to measure;
8. Double apertures measurement data can pass SCM metrological certification;



SPECIFICATION PARAMETER

Illuminating/Viewing Geometry: 8°/d	Repeatability: ΔE^*ab 0.03 (Average of 30 measurements of standard white plate within 5s)
Light Source: LED Light	Errors between Each instrument: $\Delta E^*ab < 0.4$
Sensor: silicon photodiode array	Dimension: 205*67*80mm
Measuring Aperture: Φ 8mm flat aperture; Φ 4mm tip aperture	Weight: 500g
Color Space: CIE LAB, XYZ, LCH, CIE RGB, CIE LUV	Battery: rechargeable lithium-ion battery 3.7V @ 3200mAh
Color Difference Formula: $\Delta E^*ab, \Delta E^*h, \Delta E^*uv, \Delta E^*94, \Delta E^*cmc(2:1), \Delta E^*cmc(1:1), \Delta E^*00$	Lamp Life: 5 years, more than 1.6 million measurements
Other Chromaticity Data: WI(ASTM E313, ISO R457, Hunter), YI(ASTM E313), Color fastness, FMCII Staining fastness, JPC79, BFD(1.5:1)	Screen: TFT 2.8 inch (16:9)
Observer: CIE 10°	Interface: USB/RS-232
Illuminant: D65, A, C, D50, F2, F6, F7, F8, F10, F11, F12	Storage: 100 Standards, 20000 Samples
Display Data: Colorimetric Value, Color Difference Value/Graph PASS/FAIL Result, Color Offset	Operating Temperature: 0~40°C (32~104°F)
Measuring Time: 1.5 s	Storage Temperature: -20~50°C (-4~122°F)
	PC Software: CQCS3 software
	Optional Accessory: Micro printer, powder, test box

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SPECIFICATION PARAMETER

Model	NR145	NR20XE	NR10QC	NR200	NR110	NR60CP	NR100
Optical Geometry	45°/0°	45°/0°	8°/D	8°/D	8°/D	8°/D	8°/D
Standards compliant	CIE No.15, GB/T 3978						
Sensor	Silicon Photoelectric Diode Array						
Measuring Aperture	Φ8mm flat	Φ20mm	Φ4mm	Φ8mm	Φ4mmflat, Φ4mmsharp	Φ8mmflat, Φ4mmsharp	
Color Space	CIE LAB, XYZ, LCh		CIE LAB, LCh	CIE LAB, LCh, XYZ	CIE LAB, LCh, XYZ	CIE LAB, LCh, XYZ, CIE RGB, CIE LUV	CIE LAB
Observer	CIE 10° Standard observer						
Illuminant	D65					D65 A, C, D50, F2, F6, F7, F8, F10, F11, F12	
Displayed Data	Chromaticity Values, Color Difference Values, Pass/Fail Result, Color Offset/Deviation Direction						
Measurement Time	1.5s						
Repeatability	ΔE*ab Within 0.08 (average value for 30 times)		ΔE*ab 0.03	ΔE*ab 0.08	ΔE*ab 0.08	ΔE*ab 0.03	ΔE*ab 0.08
Inter-instrument agreement	ΔE*ab Within 0.4 (average value for measuring BCRA series II 12pcs palettes)						
Size	205X67X80mm			205X70X100mm	205X67X80mm		
Weight	About 400g(including battery)					500g	
Battery Performance	Rechargeable Li-ion Battery, 3.7V@3200mAh						
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	Standard: 100, Sample: 20000	Standard: 100, Sample: 20000	Standard: 100, Sample: 20000	Standard: 100, Sample: 10000
Operating Environment	0~40℃ (32~104℉)						
Storage Environment	-20~50℃ (-4~122℉)						
PC Software	CQCS3 software		No software	CQCS3 software	CQCS3 software	CQCS3 software	/
Standard Accessories	Power adapter, manual, quality management software (official website download), USB cable, wristband						
Optional Accessories	Micro Printer, Powder Test Box						