

Spectrophotometer mini CWD CR3



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The CWD CR3 mini spectrophotometer belongs to the new generation of color measurement instruments with LED technology, equipped with pre-installed Color Quality Control software.

Instrument with diffused sphere geometry $d/8^\circ$ for reflectance measurements, small in size, easy to carry, with color search via smartphone APP via Bluetooth.

The instrument is equipped with a 1.14-inch color IPS screen, and USB interface for communication with PC.

The special multifunctional "smart button" and an automatic white calibration directly in the cap without contact.



MAIN FEATURES

Small size instrument, easy to carry even in your pocket or hanging on the strap

The instrument is equipped with a 1.14 inch IPS color display with "Smart Key"

Integrated quality control with PASS/FAIL display. Automatic non-contact calibration with white tile directly in the cap

Data communication with the PC takes place via the USB port and Bluetooth

USB Type-C rechargeable lithium battery, can continuously test for 12,000 times with a single full charge

It can be widely used in various industries such as: plastic, electronics, paint, ink, printing, clothing, leather, paper, automotive, medicine, cosmetics, food

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TECHNICAL CHARACTERISTICS OF THE INSTRUMENT

Optical Geometry	Reflect: d / 8 ° (diffused illumination, 8 ° viewing angle)
Light Source	Full spectrum LED light source
Specular Component	SCI
Color space	CIE Lab, XYZ, Yxy, LCh, CIE LUV, s-RGB, HunterLab, βxy, DIN Lab99
Color Difference Formula	$\Delta E^*ab, \Delta E^*uv, \Delta E^*94, \Delta E^*cmc(2:1), \Delta E^*cmc(1:1), \Delta E^*00, \text{DIN}\Delta E99, \Delta E(\text{Hunter})$
Observer Angle	2°/10°
Illuminant	D65, A, C, D50, D55, D75, F1, F2 (CWF), F3, F4, F5, F6, F7 (DLF), F8, F9, F10 (TPL5), F11 (TL84), F12 (TL83/U30)
Displayed Data	Sample chromaticity value, color difference value, pass/fail result, color simulation, color deviation, reflectance
Wavelength Range	400 nm - 700 nm
Integrating Sphere Size	∅20 mm
Sensor	CMOS Dual light path sensor
Measuring Time	1 s
Measuring Aperture	8mm
Repeatability	Color : ΔE^*ab within 0.05 (After warm-up calibration, the average value of measuring the whiteboard 30 times at an interval of 5s)
Data Port	USB, Bluetooth
Language	Chinese, English
Power	Lithium battery, can do tests continuously for 12000 times in a single full charge
Illuminant Life Span	5 years, more than 3 million times measurements
Display	IPS full color screen, 1.14 inch
Operating Environment	0~40°C, 0~85%RH (no condensing)
Storage Environment	-20~50°C, 0~85%RH (no condensing)
Dimension	∅ 30mm × 100mm
Weight	88 gr.
Standard Accessory	Data cable, manual, calibration box
Optional Accessory	Micro Printer, Powder Test Box