ColorWorkDesk®

Portable Spectrophotometer CWD CR8 PRO

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PORTABLE SPECTROPHOTOMETER CWD CR8 PRO

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The portable spectrophotometer model CWD Color Reader CR8 PRO belongs to the new generation of instruments for color measurement with LED technology, equipped with pre-installed Color Quality Control software.

Instrument with diffused sphere geometry d/8° for reflectance measurements is suitable for measuring the color of color samples to perform quality control and color formulation tests.

The instrument is compact and ergonomic, equipped with a 3.5-inch TFT color touch screen display with USB connection and Bluetooth® 5.0

TECHNICAL FEATURES

The LED light source ensures sufficient spectral distribution in the visible light range, avoids poor definition and guarantees measurement speed and accuracy of measurement results	Dual-32 array sensor with larger area has strong light, higher low-light sensitivity and wider response range	The measuring area is customizable from 8 mm or 4 mm
The position of the handle and the measurement button are carefully designed to meet different grip habits.	The internal memory allows you to store over 500 standards and 10,000 samples	It can be used alone with the 3.5 inch true color screen, connect it to ColorWorkDesk® color management software or with APP to synchronize data anytime

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TECHNICAL CHARACTERISTICS OF THE INSTRUMENT

Optical Geometry	Reflect: d / 8 ° (diffused illumination, 8 ° viewing angle)
Light Source	Combined full-spectrum LED light source
Specular Component	SCI
Color space	CIE Lab, XYZ, Yxy, LCh,
Color Difference Formula	ΔE*ab, ΔE*00
Observer Angle	10°
Illuminant	D65,A,F2 (CWF)
Displayed Data	Reflectivity(at 3 specific wavelengths specified by the user)chromaticity value, color difference value/graph, pass/fail result, color simulation, color offset
Spectroscopic methodv	Planar grating
Wavelength range	400~700nm
Wavelength Interval	10 nm
Semiband Width	10 nm
Measured Reflectance Range	0 - 120%
Integrating Sphere Size	Ø40 mm
Sensor	Silicon photodiode arrays (dual row 32 groups)
Measuring Time	1,5 s
Measuring Aperture	Single aperture: Φ8mm (Φ4mm optional)
Repeatability	Chromaticity value: MAV/SCI, ΔE*ab within 0.04 (When a white calibration plate is measured 30 times at 5 second intervals after white calibration)
Inter-instrument Error	MAV/SCI, within Δ E*ab 0.35(Average for 12 BCRA Series II color tiles)
Data Port	USB, Bluetooth® 5.0
Data Storage	500 standard samples, 1,0000 samples
Language	Simplified Chinese, English, Traditional Chinese
Power	LILithium battery, 6000 times in 8 hours
Illuminant Life Span	5 years, more than 3 million times measurements
Display	TFT true color 3.5inch, capacitive touch screen
Operating Environment	0~40℃, 0~85%RH (no condensation), altitude< 2000m
Storage Environment	-20~50℃, 0~85%RH (no condensation)
Dimension	LxWxH=81X71X214mm
Weight	460 gr.
Standard Accessory	Power adapter, data cable, manual, black and white calibration box, wrist strap, single aperture: Ø8mm (optional Ø4mm) platform aperture
Optional Accessory	USB micro printer, powder test box, Bluetooth micro printer,holder base