Powerful micro color inspection tool

ColorReader

CR2

ColorReader CR2 is developed using the combination of advanced color sensors and rich-performance APP applications. It is specially equipped with multi-functional "smart buttons" and professional non-contact automatic whiteboard verification, which realizes the integration of miniature colorimeter and mobile phone color difference treasure. Two in one.

Support APP

USB/Bluetooth®

Color lookup

Quick measurement

CE TÜV RoHS FC

Features

Accurate color measurement

Real-time accurate color measurement, repeatability is less than Equal to 0.08, display accuracy 0.01

WI | YI | Metamerism Index Mt
Color fastness | color strength
Opacity | 555 color classification
Munsell(C/2) ...

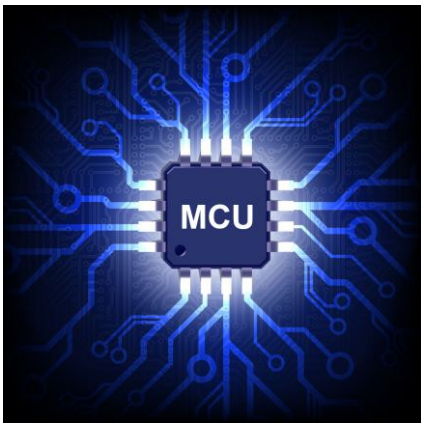
D65 | A | C | D50 | D55 | D75
F1 | F2(CWF) | F3 | F4 | F5 ...

Powerful

Has a powerful chip, AI intelligent algorithm color analysis, measurement Fast, accurate and stable results

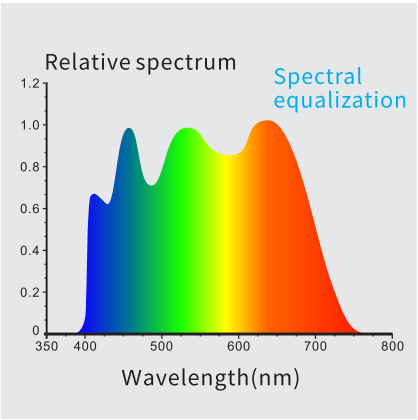
Scientific measurement

Built-in integrating sphere, using SCI lighting observation,Filter spectroscopy measurement is more accurate



Industrial CPU

Using industrial-grade real-time processing MCU, the measurement is more Stable and reliable



Spectral equalization

Full-band balanced LED light source illumination, reject spectrum loss, Spectroscopic measurement is more accurate

Easy to carry

Small size, powerful function, convenient to carry, measurement anytime, anywhere

Android APP

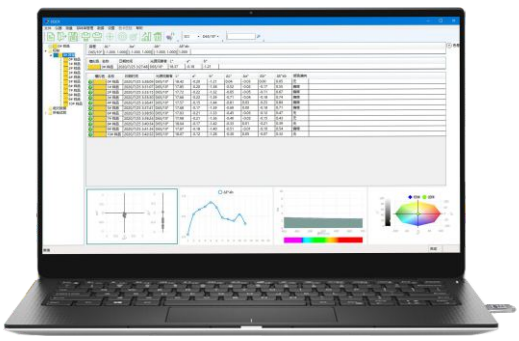
MOBCCS is a powerful color tube independently developed by the company Management APP software, can connect to the CR2 through the mobile phone Bluetooth,Realize operations such as color search, color search, data printing, etc.

MOBCCS

PC software

Connecting the color management software on the computer via a Bluetooth adapter or USB data cable can also realize color data management, which is suitable for quality monitoring in various industries. Data the user's color management, compare color differences, generate test reports, provide a variety of color space measurement data, and customize customer color management.

SQCX

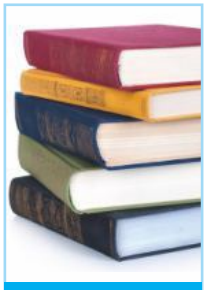


APPLICATION INDUSTRY

CR2 is used for the quality control of color difference in plastic electronics, paint and coating, textile and garment printing and dyeing, ceramics and other industries;


Plastic


Coating/ink


Print


Car


Textile


Food/Pharmaceuticals

Other

ColorReader

Model: CR2 (Professional Edition)

Geometry: D/8 (Diffuse illuminance,8°reception,SCI)

Standards compliant: CIE No.15,GB/T 3978

Integrating sphere size: Φ20mm

Illuminant: Full spectrum LED light source

Spectro device: Filter spectro

Sensor: CMOS Dual light path sensor

Wavelength Range: 400-700nm

Measuring Aperture: Φ8

SCI/SCE: SCI

Color Spaces: CIE LAB,XYZ,Yxy,LCh,CIE LUV,s-RGB,HunterLab,βxy,DIN Lab99

Color Difference Formula: ΔE*ab,ΔE*uv,ΔE*94,ΔE*cmc(2:1),ΔE*cmc(1:1), ΔE*00,DINΔE99,ΔE(Hunter)

Other Color Index: WI(ASTM E313, CIE/ISO, AATCC, Hunter), YI(ASTM D1925, ASTM 313),Metamerism Index Mt, Color fastness, color strength, and Opacity, 555 color classification, Munsell(C/2) (implemented by mobile APP)

Display Accuracy: 0.01

Observer Angle: 2°/10°

Light source: D65,A,C,D50,D55,D75,F1,F2(CWF),F3,F4,F5,F6,F7(DLF), F8,F9,F10(TPL5),F11(TL84),F12(TL83/U30)

Display: Sample chromaticity value, color difference value, pass/fail result, color simulation, color deviation, reflectance (partly through mobile APP)

Measuring Time: about1.0s

Repeatability: Color:ΔE*ab within 0.08 (After warm-up calibration, the average value of measuring the whiteboard 30 times at an interval of 5s)

Metrology requirements: Pass National Metrology

Measurement Mode: Single measurement, Average measurement (2~99times) (Implemented through smartphone App)

Dimension: Ø30X100mm

Weight: about 88g

Battery: Lithium battery,can do tests continuously for 12,000 times in a single full charge

Light source lifespan: 5-years more than 3 million times measurements

Display screen: IPS full color screen, 1.14 inch

Interface: Type-C USB,Bluetooth,Buttons

Data storage: Standards:10pcs,Samples:100pcs. Mass storage can be expanded through mobile APP

Data review: The instrument has its own measurement data review function

White calibration: Non-contact automatic calibration

Settings: Instrument can set parameters

Language: Chinese, English

Working Temperature range: 0~40°C, 0~85%RH (No condensation), Altitude: lower than 2000m

Storage Temperature Range: -20~50°C, 0~85%RH (No condensation)

Standard Accessories: Data cable, manual, calibration box, SQCX PC Color quality management software, MOBCCS APP (download from official website)

Optional Accessories: USB mini printer, powder test box