



## 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<sup>®</sup>



Color lookup



Quick measurement

# 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 ...

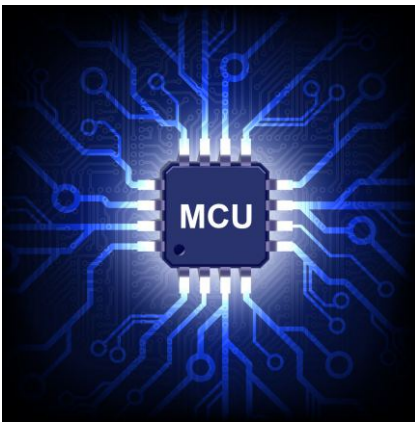
## Powerful

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



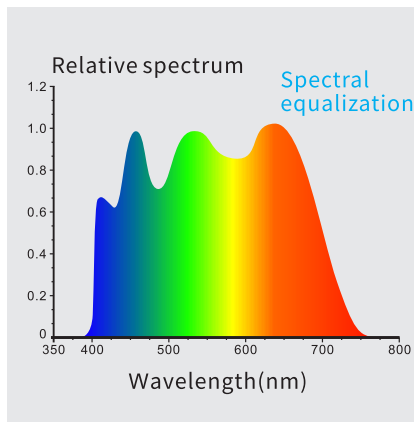
## Scientific measurement

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



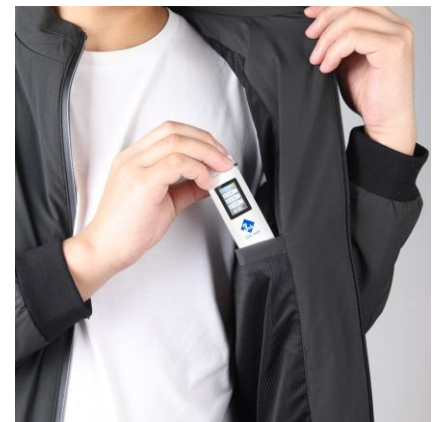
## Industrial CPU

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

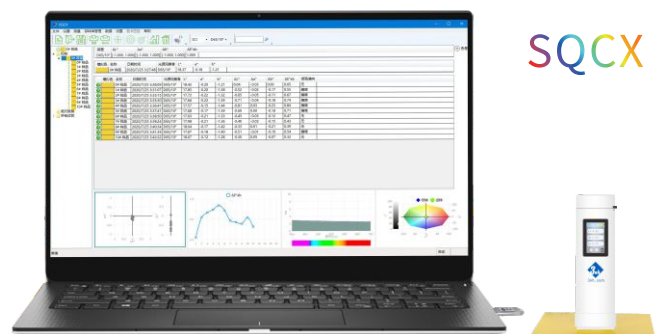
MOBCCS is a powerful color tube independently developed by the company Management APP software, can connect to the CR2 through the mobile phone Bluetooth, Realize operations such as color search, color search, data printing, etc.

MOBCCS



## PC software

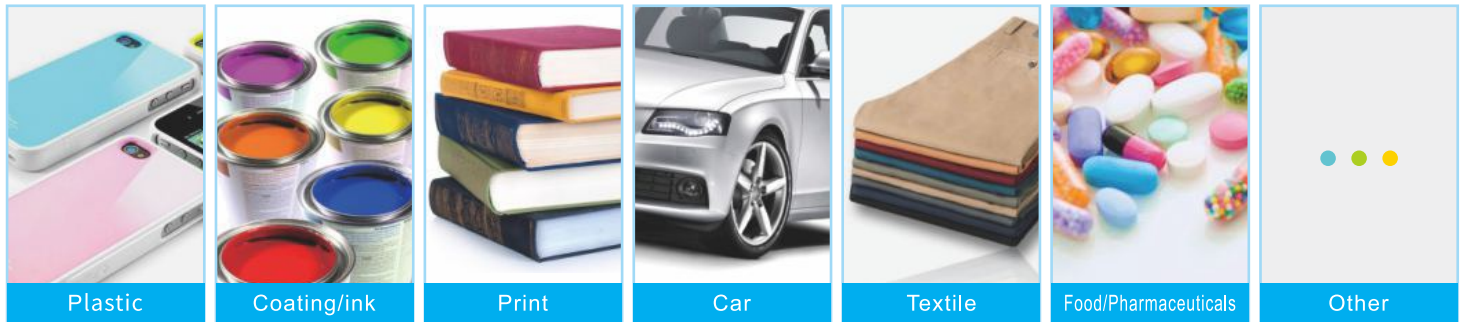
Connecting the color management software on the computer via a Bluetooth adapter or USB data cable can also realize color data management, which is suitable for quality monitoring in various industries. Data the user's color management, compare color differences, generate test reports, provide a variety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



ColorReader	
<b>Model:</b> CR2 (Professional Edition)	<b>Repeatability:</b> Color: $\Delta E^*ab$ within 0.08 (After warm-up calibration, the average value of measuring the whiteboard 30 times at an interval of 5s)
<b>Geometry:</b> D/8 (Diffuse illuminance, 8° reception, SCI)	<b>Metrology requirements:</b> Pass National Metrology
<b>Standards compliant:</b> CIE No.15, GB/T 3978	<b>Measurement Mode:</b> Single measurement, Average measurement (2~99times) (Implemented through smartphone App)
<b>Integrating sphere size:</b> $\Phi 20mm$	<b>Dimension:</b> $\Phi 30 \times 100mm$
<b>Illuminant:</b> Full spectrum LED light source	<b>Weight:</b> about 88g
<b>Spectro device:</b> Filter spectro	<b>Battery:</b> Lithium battery, can do tests continuously for 12,000 times in a single full charge
<b>Sensor:</b> CMOS Dual light path sensor	<b>Light source lifespan:</b> 5-years more than 3 million times measurements
<b>Wavelength Range:</b> 400-700nm	<b>Display screen:</b> IPS full color screen, 1.14 inch
<b>Measuring Aperture:</b> $\Phi 8$	<b>Interface:</b> Type-C USB, Bluetooth, Buttons
<b>SCI/SCE:</b> SCI	<b>Data storage:</b> Standards: 10pcs, Samples: 100pcs. Mass storage can be expanded through mobile APP
<b>Color Spaces:</b> CIE LAB, XYZ, Yxy, LCh, CIE LUV, s-RGB, HunterLab, $\beta xy$ , DIN Lab99	<b>Data review:</b> The instrument has its own measurement data review function
<b>Color Difference Formula:</b> $\Delta E^*ab, \Delta E^*uv, \Delta E^*94, \Delta E^*cmc(2:1), \Delta E^*cmc(1:1), \Delta E^*00, \Delta E^*99, \Delta E^*(Hunter)$	<b>White calibration:</b> Non-contact automatic calibration
<b>Other Color Index:</b> 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)	<b>Settings:</b> Instrument can set parameters
<b>Display Accuracy:</b> 0.01	<b>Language:</b> Chinese, English
<b>Observer Angle:</b> $2^\circ/10^\circ$	<b>Working Temperature range:</b> 0~40°C, 0~85%RH (No condensation), Altitude: lower than 2000m
<b>Light source:</b> D65, A, C, D50, D55, D75, F1, F2 (CWF), F3, F4, F5, F6, F7 (DLF), F8, F9, F10 (TPL5), F11 (TL84), F12 (TL83/U30)	<b>Storage Temperature Range:</b> -20~50°C, 0~85%RH (No condensation)
<b>Display:</b> Sample chromaticity value, color difference value, pass/fail result, color simulation, color deviation, reflectance (partly through mobile APP)	<b>Standard Accessories:</b> Data cable, manual, calibration box, SQCX PC Color quality management software, MOBCCS APP (download from official website)
<b>Measuring Time:</b> about 1.0s	<b>Optional Accessories:</b> USB mini printer, powder test box



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