



## ColorReader CR3

**Get color measurement and color finding  
say goodbye to the troubles of color difference**



Support APP



USB/Bluetooth®



Color lookup



Quick measurement



# Features



Accurate color measurement



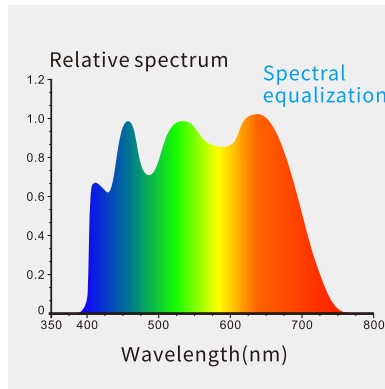
Powerful function, support a variety of measurements



Dual optical path sensing



Industrial CPU



Spectral equalization



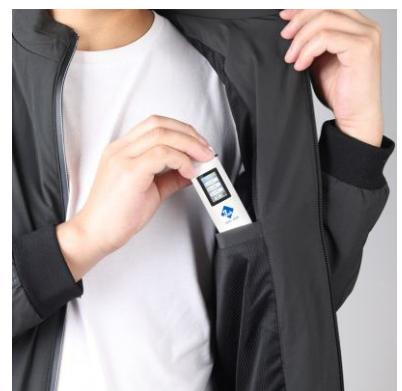
Multifunctional "Smart Button"



Non-contact Auto Calibration



Large battery capacity



Easy to carry

## APPLICATION INDUSTRY

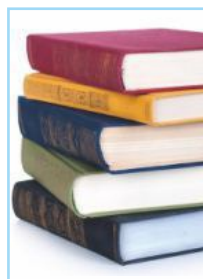
CR3 is used for the quality control of color difference in plastic electronics, paint and coating, textile and garment printing and dyeing, ceramics and other industries;



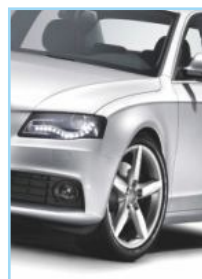
Plastic



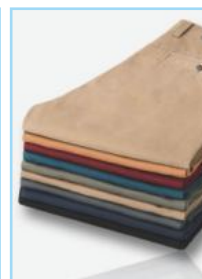
Coating/ink



Print



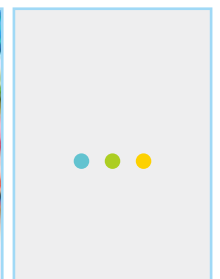
Car



Textile



Food/Pharmaceuticals



Other

# Software

## Android APP

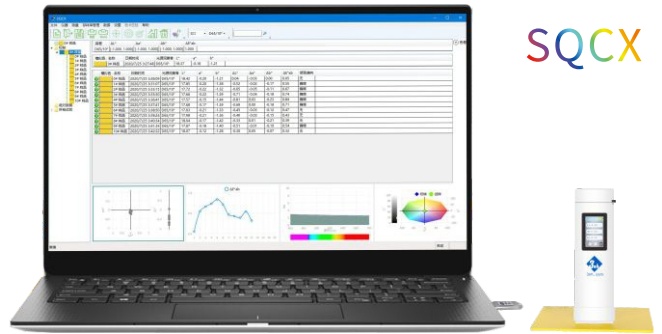
MOBCCS is a powerful color management APP software independently developed by our company. It can be connected to the colorreader through the Bluetooth of the mobile phone to realize the operation of color search, data printing, etc.

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.



### ColorReader

<b>Model:</b> CR3 (Advanced Edition)	<b>Measuring Time:</b> about 1.0s
<b>Geometry:</b> D/8 (Diffuse illuminance, 8° reception, SCI)	<b>Repeatability:</b> Color: $\Delta E^*ab$ within 0.05 (After warm-up calibration, the average value of measuring the whiteboard 30 times at an interval of 5s)
<b>Standards compliant:</b> CIE No.15, GB/T 3978	<b>Metrology requirements:</b> Pass National Metrology
<b>Integrating sphere size:</b> $\Phi 20mm$	<b>Measurement Mode:</b> Single measurement, Average measurement (2~99times) (Implemented through smartphone App)
<b>Illuminant:</b> Full spectrum LED light source	<b>Dimension:</b> $\Phi 30 \times 100mm$
<b>Spectro device:</b> Filter spectro	<b>Weight:</b> about 88g
<b>Sensor:</b> CMOS Dual light path sensor	<b>Battery:</b> Lithium battery, can do tests continuously for 12,000 times in a single full charge
<b>Wavelength Range:</b> 400-700nm	<b>Light source lifespan:</b> 5-years more than 3 million times measurements
<b>Measuring Aperture:</b> $\Phi 8$	<b>Display screen:</b> IPS full color screen, 1.14 inch
<b>SCI/SCE:</b> SCI	<b>Interface:</b> Type-C USB; Bluetooth; Buttons
<b>Color Spaces:</b> CIE LAB, XYZ, Yxy, LCh, CIE LUV, s-RGB, HunterLab, $\beta xy$ , DIN Lab99	<b>Data storage:</b> Standards: 10pcs, Samples: 100pcs. Mass storage can be expanded through mobile APP
<b>Color Difference Formula:</b> $\Delta E^*ab, \Delta E^*uv, \Delta E^*94, \Delta E^*cmc(2:1), \Delta E^*cmc(1:1), \Delta E^*00, DIN \Delta E99, \Delta E$ (Hunter)	<b>Data review:</b> The instrument has its own measurement data review function
<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>White calibration:</b> Non-contact automatic calibration
<b>Display Accuracy:</b> 0.01	<b>Settings:</b> Instrument can set parameters
<b>Observer Angle:</b> 2°/10°	<b>Language:</b> Chinese, English
<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>Standard Accessories:</b> Data cable, manual, calibration box, SQCX PC Color quality management software, MOBCCS APP (download from official website)
<b>Display:</b> Sample chromaticity value, color difference value, pass/fail result, color simulation, color deviation, reflectance (partly through mobile APP)	<b>Optional Accessories:</b> USB mini printer, powder test box



Spectrophotometers



Colorimeters



Haze Meters



Gloss Meters



Test Charts



Light Booths