

# COLOR MEASUREMENT ANYTIME, ANYWHERE



## CR7+ ColorReader

CR7+ (Basic Enhanced Edition) is a portable color measurement instrument that we independently researched and developed with core technology. It uses built-in silicon photodiode array (dual-row 24 groups) sensors and imported whiteboard. The repeatability  $\Delta$  E\*ab is easily controlled within 0.05. CR7+'s powerful performance configuration and excellent instrument-to-station difference make color measurement more professional while ensuring the consistency of measurement data from multiple devices.



3.5in Color touch screen



Dual-array silicon photodiode sensor



400~700nm Full spectrum



Mobile APP Extension





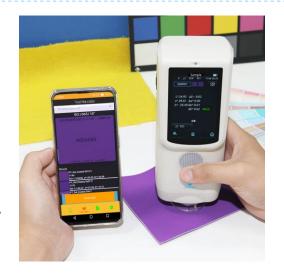






#### **PRODUCT FEATURES**

- 1. Novel and fashionable appearance design based on ergonomics
- 2. Use full-band balanced LED light source
- 3. Silicon photodiode array (double 24 array) sensor
- 4. Using grating spectroscopy technology, it has higher resolution and more accurate measurement.
- 5. Imported whiteboard, high quality, unbiased calibration
- 6. Fast charging technology, shorter charging time
- 7. Equipped with dual measuring apertures to meet the measurement needs of different samples
- 8. Excellent inter-station difference and repeatability to ensure the consistency of measurement data of multiple devices
- 9. More than ten color measurement spaces, multiple observation light sources
- 10. Adopt the internationally accepted D/8 SCI/SCE synthesis technology
- 11. Support a variety of measurement results style display, such as data, graphics, color simulation, etc.
- 12. A variety of usage methods, which can be measured by a single machine, or connected to computer software and mobile APP for measurement



### APPLICATION INDUSTRY

ColorReader are widely used in plastics, electronics, paint and ink, textile and garment printing and dyeing, printing paper products, automobiles, medical treatment, cosmetics and food industries.















Model: CR7+ (Basic Enhanced Edition)

Geometry: D/8 (diffuse illumination, 8° direction reception)

SCI/SCE measurement

Standards compliant: CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ISO7724-1,

ASTM E1164.DIN5033 Teil7

Integrating sphere size: Φ40mm

Illuminant: Full spectrum LED light source Spectrophotometric Mode: Flat grating

Sensor: Silicon photodiode array (dual row 24 groups)

Wavelength Range: 400 ~ 700nm Wavelength interval: 10nm Semiband Width: 10nm

Measuring range: L: 0~120 Reflectance: 0~200% Measuring Aperture: Ф12mm、Ф8mm Focusing:method: Electronic focus Specular Component: SCI/SCE

**Color Space:** CIE LAB,XYZ,Yxy,LCh,s-RGB,βxy,Munsell(C/2) **Color Difference Formula:**  $\Delta E^*ab$ ,  $\Delta E^*94$ ,  $\Delta E^*cmc(2:1)$ ,  $\Delta E^*cmc(1:1)$ ,

ΔE\*00, DINΔE99

Other Color Index: WI (ASTM E313, CIE/ISO, AATCC, Hunter),

YI (ASTM D1925, ASTM 313), metamerism index Mt, Color fastness, change color fastness, strength,

opacity, color card retrieval

Observer Angle: 2°/10°

**Light source:** D65,A,C,D50,F2(CWF),F7(DLF),F10(TPL5),F11(TL84),F12(TL83/U30) Display Data: Spectrogram/data, sample chromaticity value, color difference

value/graph, pass/fail result, color simulation, color deviation

Display accuracy: 0.01

**Measurement Time:** About 1.5s (approximately 3.2s when testing SCI/SCE at the same time)  $\textbf{Repeatability:} \ \ \text{Chromaticity value: MAV/SCI, } \ \Delta \text{E*ab within 0.05 (after warm-up correction, } \\$ the average value of 30 measurements on the whiteboard at an interval of 5s)

Inter-instrument Error: MAV/SCI, within △E\*ab 0.4

(Measured average value of 12 swatches of BCRA series  $\,$  II  $\,$ 

Measurement mode: Single measurement, average measurement (2~99 times) Locating Method: Stabilizer positioning

Size: Length x width x height=81x71×214mm

Weight: About 460g

Battery: Lithium battery, 6000 times in 8 hours

Illuminant Life Span: 5 years, more than 3 million times measurements

Display: 3.5-inch TFT color LCD, Capacitive Touch Screen

Data Port: USB

Data Storage: Standard 1000 Pcs, Sample 20000 Pcs Language: Simplified Chinese, English, Traditional Chinese

**Standard Accessories:** Power adapter, data cable, manual, SQCX quality management software (download from official website), black and white calibration box, protective cover, wrist strap, Ø12mm+Ø8mm platform caliber, MOBCCS APP (download from official website)

#### SHENZHEN THREENH TECHNOLOGY C O . , L T D .



Spectrophotometers



Colorimeters



Haze Meters



Gloss Meters



Test Charts







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