



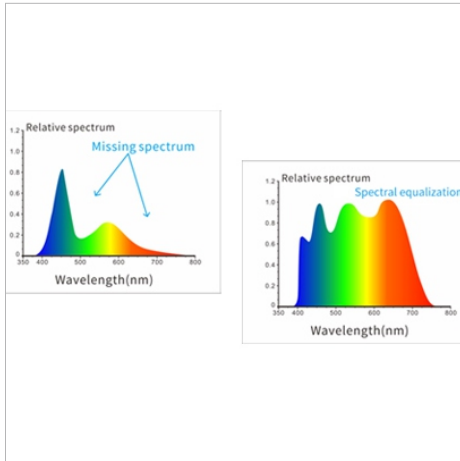
3nh Global

# Wireless communication Test and transfer



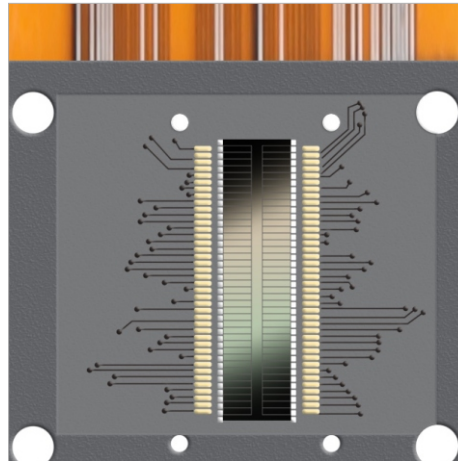
SHENZHEN THREEHN TECHNOLOGY CO., LTD.

# PRODUCT FEATURES



## 1. Adopt full-band balanced LED light source

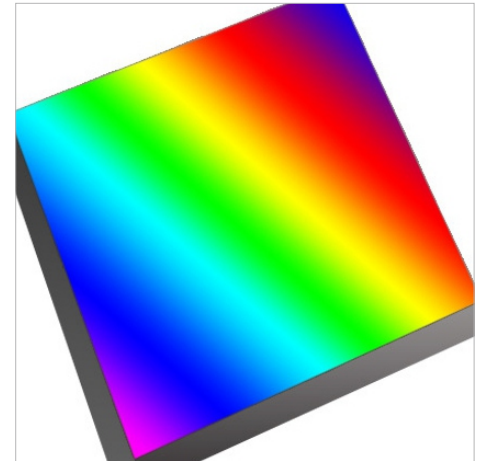
The full-band balanced LED light source ensures sufficient spectral distribution in the visible light range, avoids the lack of spectrum of white LEDs in a specific band, and ensures the measurement speed of the instrument and the accuracy of the measurement results.



## 2. Silicon photodiode array (double 32 array) sensor

The dual-32 array sensor with larger area has strong light but not saturate, higher sensitivity of low light and wider spectral response range, which ensures the measurement speed, accuracy, stability and consistency of the instrument.

Mastering the core technology and fully compatible with international standards.



## 3. Grating Spectrophotometric technology

Using grating spectrophotometric technology, it has higher resolution and makes color measurement more accurate.



## 4. Place the base safely to ensure that the whiteboard is not dirty.



## 5. Professional whiteboard, a promise that will never change color forever.



## 6. Fast charging

Special fast charging method, low-voltage reminder to charge or use of off-hours to charge, to ensure the capacity and life of the battery (note: frequent repeated charging of the battery is more harmful).



## 7. Novel and fashionable appearance design based on ergonomics

The position of the hand grip and the measurement button are carefully designed to meet different gripping habits. The smooth and fine surface is derived from the art of high-precision appearance processing.



## 8. Customize a single measuring aperture to accurately meet the needs of sample measurement

Spectrocolorreader CR8 (Professional) can choose Ø8mm or Ø4mm platform aperture according to your needs to meet your sample measurement needs.



## 9. Massive color card database

The instrument stores 500 standard and 10,000 samples, and the APP synchronously stores a large amount of data, which can quickly check color data, analyze and compare. Use the App to build your private color database in the cloud. You don't need to carry a heavy color card. You can use CR8 colorreader to find the closest color in multiple color cards anytime and anywhere.



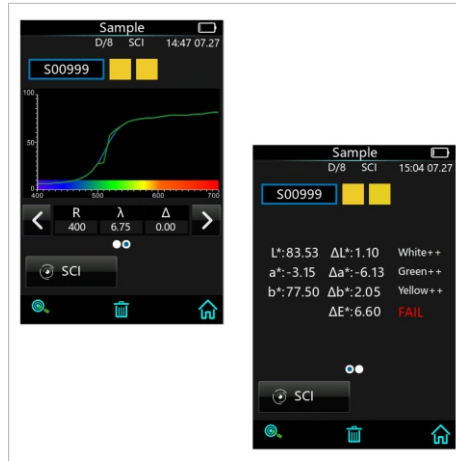
## Precise

Excellent repeatability standard deviation value  $\Delta E^*ab < 0.04$

## Stable

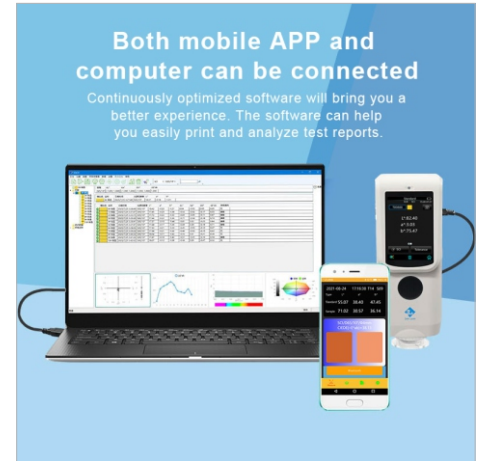
excellent inter- instrument error  $\Delta E^*ab < 0.35$  (Average for 12 BCRA Series II color tiles, MAV/SCI)

**10. Excellent inter- instrument error and repeatability to ensure the consistency of measurement data of multiple equipment.**



## 11. Diversified data display

SpectrocolorreaderCR8 (Professional) can intuitively display reflectance (reflectance at 3 specific wavelength specified by the user), sample chromaticity value, color difference value/graph, pass/fail result, color simulation, color offset and other data. It is convenient to view and also greatly improves the user's work efficiency.



## Both mobile APP and computer can be connected

Continuously optimized software will bring you a better experience. The software can help you easily print and analyze test reports.

## 12. Use whatever you want

It can be used alone, 3.5inch true color screen can check data at any time, cooperate with SQCX quality management software to facilitate quality monitoring and color data management, with APP to synchronize data at any time, and more application scenarios are waiting for you to discover.

## APPLICATION INDUSTRY

Customized single measurement aperture for accurate color difference control in plastic and electronic, paint and ink, textile and garment printing and dyeing, printing, ceramics and other industries



paint



plastic



ceramics

# PRODUCT PARAMETERS

**Model** : CR8 (Professional)

**Optical geometry** : D/8 (diffuse illumination, 8° direction reception) SCI measurement Comply with standard CIE No.15,GB/T 3978,GB 2893,GB/T 18833,ISO7724-1,ASTM E1164,DIN5033 Teil7

**Characteristics** : Customized single measurement aperture for accurate color difference control in plastic and electronic, paint and ink, textile and garment printing and dyeing, printing, ceramics and other industries

**Integrating sphere size** :  $\phi$ 40mm

**Light source** : Combined full-spectrum LED light source

**Spectroscopic method** : Planar grating

**Sensor** : Silicon photodiode arrays (dual row 32 groups)

**Wavelength range** : 400~700nm

**Wavelength interval** : 10nm

**Semiband Bandwidth** : 10nm

**Measurement range** : L:0~120 Reflectivity: the instrument can test the reflectivity at 3 specific wavelengths specified by the user (default 440nm, 550nm, 600nm), APP can realize the full-band wavelength display

**Measurement aperture** : Single aperture:  $\phi$ 8mm (  $\phi$ 4mm optional)

**Focusing method** : Fixed Focus

**Specular component** : SCI

**Color space** : CIE LAB,XYZ,Yxy,LCh

**Color difference formula** :  $\Delta E^*ab, \Delta E^*00$

**Other colorimetric indexes** : Multiple colorimetric indexes are realized through APP

**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

**Display Accuracy** : 0.01

**Measurement time** : Approx. 1.5s

**Repeatability** : Chromaticity value: MAV/SCI,  $\Delta E^*ab$  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  $\Delta E^*ab$  0.35(Average for 12 BCRA Series II color tiles)

**Measurement method** : Single measurement, average measurement (2~99 times)

**Locating method** : Stabilizer locating

**Size** : LxWxH=81X71X214mm

**Weight** : About 460g

**Battery power** : Lithium 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

**Data port** : USB, Bluetooth® 5.0

**Data storage** : 500 standard samples, 1,0000 samples , APP mass storage

**Language** : Simplified Chinese, English, Traditional Chinese

**Operating temperature range** : 0~40°C, 0~85%RH (no condensation), altitude< 2000m

**Storage temperature range** : -20~50°C, 0~85%RH (no condensation)

**Standard Accessories** : Power adapter, data cable, manual, SQCX quality management software (official website download), black and white calibration box, protective cover, wrist strap, single aperture:  $\phi$ 8mm (optional  $\phi$ 4mm) platform aperture, MOBCCS APP (official website download)

**Optional Accessories** : USB micro printer, powder test box, Bluetooth micro printer

**Notes** : Technical parameters are for reference only, subject to the actual sales of products



**SHENZHEN ThreeNH TECHNOLOGY CO., LTD.**

Address:F/6, Block 5B, Skyworth Inno Valley, Tangtou 1st Road,  
Shiyan, Baoan District, Shenzhen, P.R. China

Service Hotline: 400-666-2522

Email: 3nh@3nh.com

Tel: 86-0755-26508999

Fax: 86-0755-27190609

The specifications and design may be changed without notice.