

INTELLIGENT COLOR MEASUREMENT REJECTING COLOR DIFFERENCES

A cost-effective spectrophotometer

- 0.01 High precision measurement
- High definition large screen, easy to operate
- Comfortable grip, not tiring to hold
- 8 color difference formulas, 9 color spaces, over 10 measurement indicators, and more than 30 observation light sources



Fast measuring



Full Spectrum



Dual channel sensing



High-precision 0.01



PS210 SpectroColorimeter

The PS210 has excellent repeatability and inter platform variability, with continuous and stable measurement data that is accurate and reliable. Coupled with a comfortable and rounded appearance, it is even more irresistible. It comes with quality management software that supports Android, iOS, Windows, HarmonyOS systems, WeChat mini programs, color cloud, etc., making it convenient for quality monitoring and data management.

Digital color measurement Assist in color difference control of products

Product Features

Powerful function

- Suitable for plastic electronics, paint and ink, textile and clothing printing Color difference quality control in industries such as dyeing, printing, and ceramics.
- Spectral reflectance, WI (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D1925, ASTM 313), Same color spectral index Mt, color fastness, color fastness, strength, coverage, 555 color tone classification, Munsell (C/2) (implemented on mobile app) CMYK.

Durable

- Lightweight, impact resistant, dirt resistant, and storage resistant
- Operating temperature: 0~40 °C, 0~85% RH (no condensation), altitude: below 2000m
- Storage temperature: -20~50 °C, 0~85% RH (no condensation)

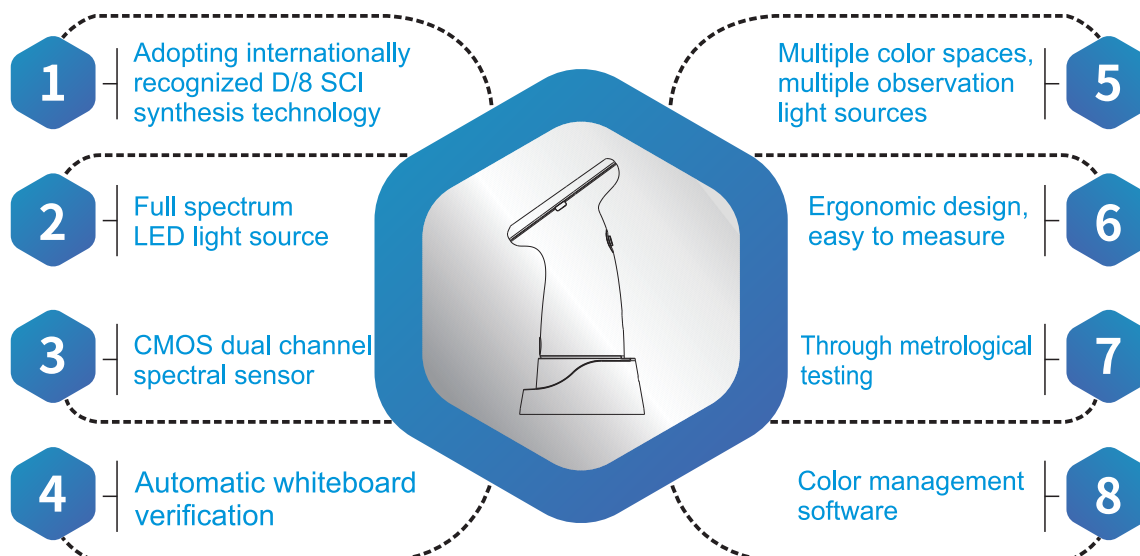
Efficient

- Very suitable for laboratory and factory use.
- 4mm measuring caliber, supporting flat and curved surface measurements, Measurement of small items and other different situations
- Supports USB wired and Bluetooth wireless transmission, data instant testing and transmission, convenient and fast
- Fast and accurate measurement, results in 1 second

Accurate measurement

- Precision 0.01
- The repeatability standard deviation is within $\Delta E^* ab 0.02$
- Support multiple national and international standard measurements

Core technology

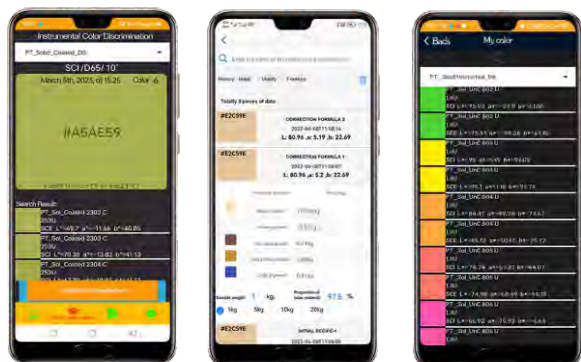


Independently developed and mastered the core technology of color measurement

Support connected mobile phone measurement

Support Android, IOS, Windows, wechat program, HarmonyOS

1. Color difference measurement, color simulation is more intuitive;
2. Find the closest color, and view the details Lab value, spectrum, etc.;
3. Can create personal color database, input printing, coating, textile and other color card information; Mass storage of quantity;
4. Sewing color matching, provide color scheme.



Support PC software measurement

Connected devices can be expanded for more functions

The upper computer software SQCX can connect the spectrophotometer through USB cable and Bluetooth, control the instrument for measurement, change the instrument configuration, and operate the instrument data. At the same time, it also greatly expanded the function of the instrument, to achieve complex data management, color detection, report generation, etc., is the right-hand assistant of color quality management.



Analysis and management

By connecting SQCX software on PC, the instrument can analyze, copy, delete, modify, name and save the measured data.



Mass storage

The measured data report can be uploaded to the cloud storage. Achieve mass data storage.



Data printing

Compare color differences, generate test reports, and print out the data by connecting to a Bluetooth printer.



Share and pass

The generated test report can be shared and transmitted through a connected computer. Fast exchange of color information to speed up production time.

Optional accessories

The instrument comes with 2 optional accessories; Such as micro printer, powder test box; Meet more measurement needs.

Microprinter

Easy to carry, without computer can be continuously printed out the measurement of various parameters, easy to save.



Powder test box

Easy to use, focused on powdered target measurement.



APPLICATION FIELD



Printing ink



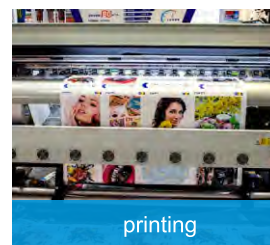
Textile printing and dyeing



ceramic



plastic



printing

SPECIFICATIONS

Model	PS210 spectrophotometer
Optical Geometry	D/8(diffused illumination, 8-degree viewing angle), SCI (specular component included component excluded) Mode, Comply to CIE No.15,GB/T 3978,GB 2893,GB/T 18833,ISO7724-1,ASTM E1164, DIN5033 Teil7
Characteristic	Adopt CMOS dual beam splitting sensor; Used for color difference quality control in plastic electronics, paint and ink, textile and garment printing and dyeing, printing, ceramics and other
Light Source	Combined full spectrum LED light source
Integrating Sphere Size	Φ40mm
Sensor	CMOS dual beam splitting sensor
Wavelength Range	400-700nm
Measuring Aperture	Φ4mm/Φ5mm(Plat+Sharp Caliber)
Specular Component	SCI
Color Space	CIE LAB,XYZ,Yxy,LCh,CIE LUV,s-RGB,HunterLab,βxy,DIN Lab99
Color Difference	ΔE*ab,ΔE*uv,ΔE*94,ΔE*cmc(2:1),ΔE*cmc(1:1),ΔE*00, DINΔE99,ΔE(Hunter)
Other Colorimetric Index	Spectral reflectance, WI(ASTM E313, CIE/ISO,AATCC,Hunter), YI(ASTM D1925, ASTM 313), Same color spectral index Mt, color fastness, color fastness, strength, coverage, 555 color tone classification, Munsell (C/2) (implemented on mobile app) CMYK
Observer Angle	2°/10°
Illuminant	D65,A,C,D50,D55,D75,F1,F2(CWF),F3,F4,F5,F6,F7(DLF),F8,F9,F10(TPL5),F11(TL84),F12(TL83/U30), U35,NBF,ID50,ID65,LED-1,LED-2,LED-3,LED-4,LED-5,LED-6,LED-7,LED-8,LED-9,LED-10 (Partially implemented through mobile apps)
Display	Spectrogram/Values, Samples Chromaticity Values, Color Difference Values/Graph, PASS/FAIL Result, Color Simulation, Color Offset
Measuring Time	About 1s
Repeatability	Chromaticity value: MAV/SCI, within ΔE*ab 0.02 (After preheating and correction,the average value of the whiteboard was measured for 30 times at an interval of 5s);Spectral reflectance: MAV/SCI, Standard deviation within 0.08% (400nm to 700nm: within 0.18%)
Inter-instrument Error	MAV/SCI, Within ΔE*ab 0.35 (Average for 12 BCRA Series II color tiles)
Displayed Accuracy	0.01
Measured Reflectance Range	0-200%
Reflectance Resolution	0.01%
Measurement Mode	Single Measurement, Average Measurement(2-99times)
Locating Method	Stabilizer position
White Calibration mode	Contact type calibration
Dimension	94X68X188mm
Weight	About 410g
Battery	Lithium battery,3.7V,3200mAh,8000 cycles in 8 hours
Illuminant Life Span	More than 1.2 million measurements over 10 years
Screen	2.8 inch TFT true color, Capacitive Touch Screen
Interface	USB , Bluetooth
Data Storage	Standard 200Pcs, Sample 10000Pcs(One data is able to include SCI/SCE);APP/PC mass storage
Software support	Andriod,iOS,Windows, WeChat Mini Program, HarmonyOS
Language	Simplified Chinese, English, Traditional Chinese
Operating Environment	0~40°C, 0~85%RH (no condensing),Altitude < 2000m
Storage Environment	-20~50°C, 0~85%RH (no condensing)
Standard Accessory	Power Adapter, USB Cable, User Guide, SQCX PC Software(Download from office website), White and Black Calibration Cavity, Protective Cover, Wrist strap, Aperture
Optional Accessory	USB Micro Printer, Powder Test Box

GUANGDONG THREENH TECHNOLOGY CO., LTD.



Spectrophotometers



Colorimeters



Haze Meters



Gloss Meters



Test Charts



Light Booths

★ CONTACT US



web:www.3nh.com



Email:3nh@3nh.com



Tel:0086-020-82880288



Add: 6-8th floors, Building B33, Low Carbon Headquarters Park, Xincheng Road No.400, Zengcheng District, Guangzhou, Guangdong Province, China