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NEW PRODUCTS NEW EXPERIENCES

Fast measuring

Dual channel sensing

Full Spectrum

High-precision 0.01

Portable

Comfort

High-performance

Stability

PS110 Spectrocolorimeter

The PS110 is developed using CMOS dual channel sensors, which have excellent repeatability and small differences between multiple devices. The measurement data is continuously stable, accurate and reliable, and coupled with a comfortable and rounded appearance, it is even more irresistible. It comes with quality management software for convenient quality monitoring and data management.

PORTABLE, COMFORTABLE, PRECISE, AND STABLE

Excellent colorimeter

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
- Support 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

PS110 Feature

1. Adopting internationally recognized D/8 SCI technology

The PS110 spectrophotometer adopts the internationally widely applicable D/8 illumination observation conditions and SCI (including mirror reflection synthesis technology), which is suitable for color management and quality control in various industries such as color matching, coatings, textiles, plastics, food, building materials, cosmetics, etc.

2. Adopting full band balanced LED light source

Using a 400-700nm full band balanced LED light source as the instrument illumination light source, there is sufficient spectral distribution in the visible light range, avoiding spectral loss of white LED in specific bands. Fluorescent materials can also be easily measured, ensuring the accuracy of instrument measurement results.

3. CMOS dual channel spectral sensor

High speed and high sensitivity CMOS dual channel spectroscopic sensorTools make color data processing more efficient and accurate.

4. Contact whiteboard verification

The PS110 spectrophotometer is equipped with an intelligent calibration base, which can perform contact whiteboard calibration. The professional standard whiteboard reflectivity R% ≥ 95% has good surface uniformity, high stability, and can obtain accurate and repeated data.

5. Large capacity storage space

It can store 200 standard samples and 10000 test samples (one data can include SCI/SCE at the same time), meeting the large-scale data storage needs of enterprises and facilitating the retrieval and comparison of historical data at any time.

6. Ergonomic design and easy to measure devices

The PS110 spectrophotometer has a beautiful and smooth appearance and comfortable grip, with a structural design that conforms to human mechanics. It fits snugly in the palm and is suitable for continuous detection work, making it fast and easy to use. It also features an automatic measurement device that is portable, fast, easy to measure, and user-friendly.

7. Cross stabilizer positioning

By positioning with a cross stabilizer, it is possible to accurately determine whether the measured part of the object is the center of the target, which improves measurement efficiency and accuracy.

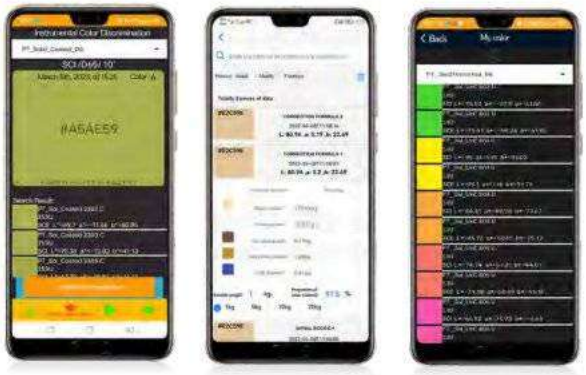
8. Color management software

SQCX quality management software is suitable for quality monitoring and color data management in various industries. Digitize user color management, compare color differences, generate test reports, provide multiple color space measurement data, and customize customer color management work.

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.

Data printing

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

Mass storage

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

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

SPECIFICATIONS

Model	PS110 spectrocolorimeter
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
Color Difference	ΔE*ab
Other Colorimetric Index	\
Observer Angle	2°/10°
Illuminant	D65
Display	Spectrogram/Values, Samples Chromaticity Values, Color Difference Values/Graph, PASS/FAIL Result, Color Simulation, Color Offset
Measuring Time	Abou1s
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 0.4 (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℃, 0~85%RH (no condensing),Altitude < 2000m
Storage Environment	-20~50℃, 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