Model: PS2060&PS2050

Conform to the standard: CIE No.15,GB/T 3978,GB 2893, GB/T 18833,1S07724-1, ASTM EII64,DIN5033 Teil7



Portable design, sturdy construction Anti-shaking, dustproof and knock

Product features

D/8 geometric optical structure, Suitable for a variety of measurement conditions

Full spectrum with high life and low power consumption
The combined LED light source,
UV support fluorescence measurement

Dual optical path systemThe SCI and SCE spectra of samples can be measured simultaneously

2°/10° standard observer Angle, Multiple light source mode, multiple color space A variety of chroma parameters

> Imported white board is not easy to dirty,Ensure measurement accuracy



PS2060 Three apertures: MAV:C>8mm/C>1 0mm(Flat); SAV:ct>4mm/Cl>5mm(Flat); SSAV: 1x3mm(Flat);

PS2050 Double aperture: MAV:ct>8mm/Cl>l0mm(Flat); SAV:ct>4mm/ct>Smm(Flat);







8mm Flat 4mm Flat 1x3mm Flat





8mm Flat 4mm Flat



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Powerful

- Suitable for color difference quality control in plastic electronics, paint and ink, textile and garment printing and dyeing, printing, ceramics and other industries
- Support the spectral reflectance, WI (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D1925, ASTM 313), the same color spectrum index of Mt, touch color fastness, color fastness, strength, cover degree, 555 color classification, Munsell(C/2) (mobile APP implementation)

Durable

- Light weight, impact resistance, dirt resistance and storage resistance
- Operating temperature range 0~40"C, 0~85%RH(no condensation),Altitude: below 2000m
- Storage temperature range -20~50 °C, 0~85%RH(no condensation)

Efficient

- Ideal for laboratory and factory use
- Support USB cable computer transfer data
- The measurement is fast and accurate, and it only takes 1S to measure SCI and SCE simultaneously
- Color display, touch control, easy to operate

Accuracy of reading

- Measurement accuracy 0.01
- The standard deviation of repeatability was within 0.03 of t, E*ab
- Support multiple national and international standard measurement
- A variety of different caliber algorithms



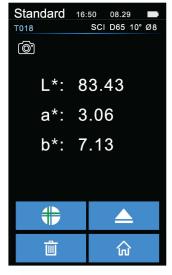


PS2060

Spectrocolorimeter Main

function





Standard Measure



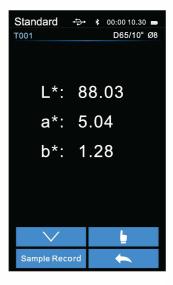
Color index selection



Sample measurement and color difference



Illumination setting



View Measurement record



Color space selection



Powder test kit for colorimeter (purchased separately)

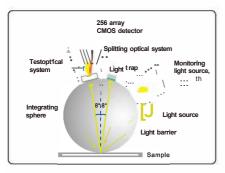
Powder test box has the characteristics of easy cleaning, no light overflow, suitable forAll kinds of powder, small particle measurement, avoid contaminating the sample at the same timelt keeps the test bench clean.

PS2060

Spectrocolorimeter Product

features





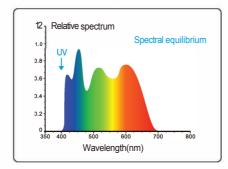
1.The international D/8 SCI/SCE synthesis technology was adopted

The spectrocolorimeter PS2060 adopts D/8 lighting observation conditions and SCI/SCE (including specular reflection/excluding specular reflection) synthesis technology with a wide range of international applications, which is applicable to all industries.



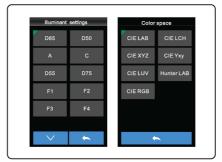
4. Contact automatic whiteboard calibration

The spectrophotometer PS2060 is equipped with an intelligent calibration base. Contact automatic whiteboard calibration is available, professional standard Whiteboard reflectivity Rbb 2º 95%, good surface uniformity, It has high stability and can obtain repeated and accurate data.



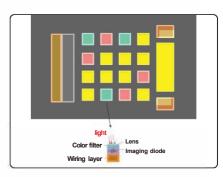
2.Balanced LED illuminant+UV

The 400-700nm full band balanced LED light source is used as the instrument lighting source, which has sufficient spectral distribution in the visible light range, avoiding the spectral loss of white LED in specific bands, and the fluorescent materials can also be easily measured.



Multiple color measurement spaces, multiple illumination source

Support CIE LAB,XYZ,Yxy,LCh,CIE LUV,s-RGB, xy,DIN Lab99,Munsell(C/2) Color space and D65,A,C,D50,D55,D75,F1,F2(CWF),F3,F4,F5,F6,F7(DLF),F8,F9,F10(TPL5),F11 (TL84),F12(TL83/U30) multiple illumination source,Meet different measurement requirements.



3.CMOS dual beam splitting sensor

High speed and high sensitivity CMOS dual beam splitter sensor makes color data processing more efficient and accurate.



6. Ergonomic design and easy measurement

The fitted palm is suitable for continuous detection, which makes you fast and easy to use. An easy to measure device for automatic measurement is added, which is portable, fast, easy to measure and use.



7. Cloud storage, carrying massive color databases

Use apps and applets to establish your private color database in the cloud, without carrying heavy color cards, you can share them with partners anytime and anywhere.



8. The camera can clearly observe the measured area

The built-in camera is used for view taking and positioning. Through real-time view taking, it can accurately determine whether the measured part of the object is the target center, which improves the measurement efficiency and accuracy.



9. Color management software

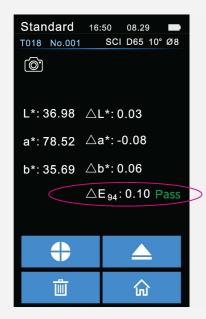
Quality management software Andriod, IOS, Windows, WeChat app and Hongmeng system are applicable to quality monitoring and color data management in various industries. Data the user's color management, compare color differences, and generate test reports.

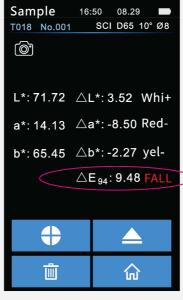
PS2060

Spectrocolorimeter Result

evaluation



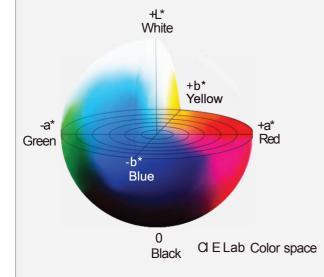




Under the IS07724-1 and ASTM E1164 standards, the color values of the standard sample and sample obtained under the light source are set, and the system conducts rigorous formula calculation to obtain the color difference value and color tendency. Within the set tolerance range, the system will display "qualified"; when it exceeds the set range, the system will display "unqualified".

The difference of color difference is distinguished by NBS unit, which is derived based on the unit of color difference calculation formula established by Judd Hunter. When the value of NBS unit is larger, the color difference is more obvious, and vice versa.

NBS	Level	
0.00-0.50	trave	
0.50-1.50	slight	
1.5-3	noticeable	
3-6	appreciable	
6+	much	



Color space CIE LAB,XYZ,Yxy,LCh,CIE LUV,s-RGB,HunterLab, xy,DIN Lab99 choice,For example, common CIE Lab color space:

L* means black and white. The larger the value of L*, the higher the brightness;

A* represents red and green, + a * represents red, and - a * represents green;

B * represents yellow blue, * b * represents yellow, and - b * represents blue.

We can easily adjust the color through the color bias display.

^{*}The above test results have been corrected in black and white after startup, and are within the validity period of correction.

PS2060 Spectrocolorimeter

SQCX

Connect devices for powerful function expansion

Create instant reports using SQCX





Export

Send

upload









Cloud color matching

SQCX can connect the spectrophotometer through USB cable and Bluetooth (only for instruments supporting Bluetooth), control the instrument to measure, change the instrument configuration, and operate the instrument data. At the same time, it also greatly expands the functions of the instrument, supports a variety of surface color systems, light sources, more complex data management, color detection, report generation, etc., and is a powerful assistant for color quality management.

Connect the computer through the data cable and use the SQCX program to achieve:

- 1. Save the sample values measured on site directly to the mobile device.
- 2. View the color chart in real time during the test.
- 3. You can view historical data and personal saved data, and modify the name.
- 4. It can be transferred to the printer for printing and output.
- 5. The test data can be managed, transmitted and color matched by computer.

Parameter -

Model	PS2060	PS2050	
Optical Geometry	D/8 (diffuse lighting, receiving at 8 'direction), SCI/SCE (including specular light/removing specular light)		
Standards Compliant	CIE No.15,GB/T 3978,GB 2893,GB/T 18833,ISO7724-1,ASTM E1164,DIN5033 Teil?		
Lllumination source	Combined full spectrum LED & UV light source		
Integrating Sphere Size	CD40mm		
Sensor	CMOS dual beam splitting sensor		
Spectral Range	400~700nm		
Measurement Aperture	Three apertures:MAV:CD8mm/CD 10mm(Flat); SAV:CD4mm/CD5mm(Flat); SSAV: 1x3mm(Flat);	Double aperture: MAV:<1>8mm<1>1 0mm(Flat); SAV:<1>4mm/<1>5mm(Flat);	
Specular Component	SCI/SCE		
Color Spaces	CIE LAB,XYZ,Yxy,LCh,CIE LUV,s-RGB,Hunterlab, xy,DIN Lab99		
Color Difference Formula	E* ab, E*uv, E*94, E* cmc(2: 1), E* cmc(1: 1), E*00, D N E99, E(H unter)		
Other Colorimetric Index	Reflectivity, W (ASTM E313, CIE/ISO, MTCC, Hunter), Y (ASTM D1925, ASTM 313), metamerism index Mt, color fastness color fastness, strength, hiding degree, 555 tone classification, Munsell (C/2) (realized by mobile phone APP)		
Observer Angle	2'/10'		
Illuminant	D65,A,C,D50,D55,D75,FI,F2{CWF),F3,F4,F5,F6,F7{DLF),F8,F9,FIO{TPL5),FII{TL84},FI2{TL83/U30),U35,NBF,ID50,ID65,ID65,ID65,ID65,ID65,ID65,ID65,ID65		
Displayed Data	Spectrogram/data, sample chromaticity value, chromatic aberration value/graph, Pass/Reject result, color simulation, color bias		
Measurement Time	About 1s		
Repeatability	Chromaticity value: MAV/SCI, standard deviation value E*ab within 0.03 (after preheating correction, the average value of the whiteboard is measured for 30 times at an interval of 5s) Spectral reflectance: MAV/SCI, standard deviation within 0.08% (400-?00nm: within 0.18%)		
Inter-instrument agreement	MAV/SCI, E*ab 0. 3 within{BCRAseries 1112 color plate measurement average)		
Display accuracy	0.01		
Reflectivity range	0~200%		
Reflectivity accuracy	0.01%		
Measurement Mode	Single Measurement, Average Measurement (2-99times)		
Locating Method	Stabilizer positioning+camera view positioning		
Whiteboard verification method	Contact automatic whiteboard calibration		
Locating Method	Length X width X height =94X68X188mm		
Weight	270g (without calibration base)		
Battery	Lithium battery, 3.7V, 3200mAh, 8000 times in 8 hours		
Life Lamp	1.2 million measurements in 10 years		
Screen	TFT true color 2.8inch, capacitive touch screen		
Interface	USB, Bluetooth		
Data storage	500 records for standard sample and 10000 records for sample, supporting APP/PC storage		
Software support	Andriod, IOS, Windows, WeChat applet, Hongmeng		
Languages	Simplified Chinese, English.Traditional Chinese		
Standard Accessory	Power adapter, data cable, manual, quality management software (official website download), black and white correction box, protective cover, wrist strap, measuring caliber		
Optional Accessory	Micro printer, powder test box		















