

Product introduction

The ST2222 adopts a built-in large area silicon photodiode array (22 sets of double row) sensor, which has excellent repeatability and platform difference, and the measurement data is continuously stable, accurate and reliable. Repeatability of array spectrophotometer ST2222 Δ E * ab is easily controlled within 0.018, and the difference between platforms Δ E * ab is controlled within 0.18, with accurate measurement, which can be used for accurate color analysis and transmission in the laboratory.

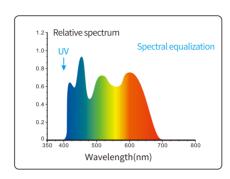
Multiple Apertures Camera Locating Double optical path Support APP



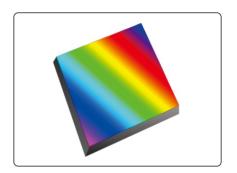
Features



1. Silicon photodiode array (double row 22 groups) sensor, more accurate and stable measurement.



2. Full band balanced LED light source+UV light source can be used to measure fluorescent materials.



3. The plane grating light splitting technology is adopted, which has higher resolution and makes the color measurement more accurate.



4. Non contact automatic whiteboard calibration (automatic lifting patent), professional standard whiteboard reflectivity R% ≥ 95%, good surface uniformity, can obtain repeated accurate data.



5. New and fashionable appearance design based on ergonomics.



6. Equipped with five measuring calibers to meet the measurement requirements of large and small samples



7. Camera location can clearly observe the measured area



8. The error between instruments is small, ensuring the consistency of measurement data of multiple equipment, which can be used for color matching and accurate color transfer.



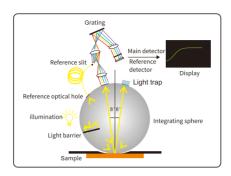
9.It provides 30+color spaces and 40+observation light sources, which can meet the special measurement requirements under different measurement conditions.



Integrating sphere Detector Lens Sample

10. Adopt international D/8 SCI/SCE synthesis technology

Phototran



11.The dual optical path system ensures more stable and accurate measurement data when the measurement environment changes.

Features



12.The array spectrophotometer ST2222 supports Android, IOS, Windows, WeChat applet and Hongmeng system, and is suitable for quality monitoring and color data management in various industries.

Powerful

- Applicable to color difference quality control in plastic electronics, paint and ink, textile and garment printing, printing, ceramics and other industries
- Support spectral reflectance, CIE Lab,
 CIE LCh, HunteLab, CIE-Luv, XYZ, Yxy,
 RGB, Chromatic aberration Δ E*ab,
 Δ E*cmc, Δ E*94, Δ E*00), Whiteness
 (ASTM E313-00, ASTM E313-73,
 CIE/ISO, AATCC, Hunter, Taube Berger
 Stensby), yellowness (ASTM D1925, ASTM E313-00, ASTM E313-73), blackness
 (My, dM), Color fastness, color fastness,
 Tint (ASTM E313-00), Color density CMYK
 (A, T, E, M), homochromatic
 heterochromatic index Milm,
 Munsell, hiding power, strength
 (dye strength, tinting power)

Efficient

- Ideal for laboratory and factory use
- Multiple measuring apertures, supporting plane and curved surface measurement, Measurement of small items under different conditions
- Support USB cable and Bluetooth wireless transmission, data Instant test and transmission, convenient and fast
- The measurement is fast and accurate, and the SCI is measured at the same time. It only takes 1s for SCE

Accurate reading

- Measurement accuracy 0.01
- The repeatability standard deviation is Δ E * ab ≤ 0.018
- Support multiple national and international standard measurements



Data Manage Calibration Calibration Measure Set Color Space Color Index Display Settings

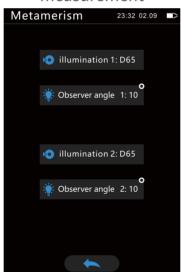
Main Menu



illumination setting

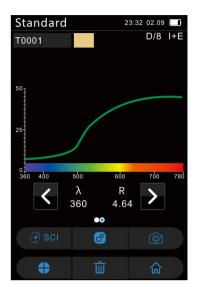


Standard sample measurement

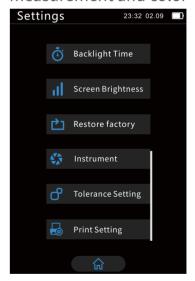


Metamerism

Function display



Standard sample measurement and color



System settings



Multi functional intelligent charging base

The multi-functional intelligent charging base is a smart base that we independently developed and integrates charging and automatic calibration. It uses the self-developed 3.0 fast charging technology and is equipped with an imported standard white board. The white board automatically rises and falls (national patent) when starting automatic calibration to ensure that the white board is not easy to get dirty and is stable and accurate for a long time.



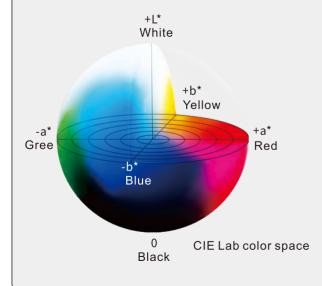
Evaluation of test results



Comply with ISO7724-1 and ASTM E1164 standards. By setting the color values of the standard sample and sample obtained under the light source, the system will automatically calculate the formula to obtain the color difference value and color deviation. 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 Range	Perception	
0.00-0.50	trave	
0.50-1.50	slight	
1.5-3	noticeable	
3-6	appreciable	
6+	much	



CIE LAB, XYZ, Yxy, LCh, CIE LUV, s-RGB, HunterLab, βXy, DIN Lab99 and other color spaces are available, such as the 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

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

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

Through the color bias display, we can easily adjust the color ratio.

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



SQCX

Connect devices for powerful function expansion

Create instant reports using SQCX

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 color systems, light sources, more complex data management, color detection, report generation, etc., and is a powerful assistant for color quality management.





SQCA

Connect

Via Bluetooth ® Connect the instrument to the mobile phone to see the real-time readings directly, and save them to the historical record.

Review

Visually view historical measurement records for easy comparison.



You can copy, delete and upload data to the cloud, or print the data by connecting to a Bluetooth printer.

Rename and change

You can name data records to facilitate data modification while recording.

Color check and color formula

The APP is built with massive color data. Through the analysis of measured colors, the software automatically finds similar color cards and obtains color formulas.

Transmission

Transfer detection data from mobile devices to computers for further analysis, create reports or upload to the cloud.









Android



iOS Mobile/PC



Windows

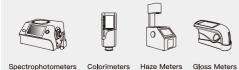
HarmonyOS

Color matching cloud

Product parameters

Display accuracy Dauble aperture: 0.6mm/0.10mm Dauble aperture: 0.6mm/0.10mm Elat+ 0.4mm/0.5mm Elat+ 0.5mm/0.10mm Elat+ 0.5mm/0.10mm Elat+ 0.4mm/0.5mm						
SCI/SCE Conform to Standards Conform to Standards Conform to Standards Repeatability AE 7±0 < 0.038 AE 7±0 < 0.		, , ,		Array spectrophotometer ST2222		
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Repeatability*	SCI/SCE	SCI includes specular light SCI/SCE includes specular light/excludes specular light;Include/Exclude UV Measurements				
Display accuracy	Conform to Standards	CIE No.15,GB/T 3978,GB 2893,GB/T 18833,ISO7724-1,ASTM E1164,DIN5033 Teil7				
Display accuracy Double operture: 08mm/010mm Bath Double operture: 08mm/010mm Bath Double operture: 08mm/010mm Bath Ownm/05mm Ownm/05m	Repeatability*	ΔE*ab≤0.038	ΔE*ab≤0.028	ΔE*ab≪0.018		
Double aperture: \@Bmm/\@10mm Flat* Saperture: \@Bmm/\@10mm Flat* Saperture: \@Bmm/\@10mm Flat* Saperture: \@Bmm/\@10mm Flat* \@Amm/\@10mm F	rror between instruments**	ΔE*ab≤0.38	ΔE*ab≤0.28	ΔE*ab≪0.18		
### Reasurement index Spectrol reflectivity, CIF-Lab, CIF-Lab, CIF-Lab, CIF-Lab, W72, Yy, R6B, chromatic aberration (& * ab, AE * CMC, AE * 94, AE * 00), whiteness (My, PM), abaining fastness, colour charging bastness, to clour charging bastness, but ASTM E313 30, ASTM E313 30), color density christ (A, T, E, M), Bochromism index (Min, Munsell, heling power, force farction (righ settengh, coloring power) Light source conditions	Display accuracy	0.01				
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LED-B2, LED-B3, LED-B4, LED-B5, LED-B6, LED-B6, LED-BH1, LED-W3, LED-W3, Customizable light source	Measurement index	blackness (My, DM), staining fastness, colour changing fastness, tint (ASTM E313-00), color density CMYK (A, T, E, M), isochromism index				
Illuminants Combined Full Spectrum LED Lamp Combined Full Spectrum Camera observation	Light source conditions					
Locating Method Whiteboard Calibration Intelligent automatic calibration (contact type) Intelligent automatic calibration (contact type) Intelligent automatic calibration (non-contact automatic lifting type) Level 1 measurement qualified 2°, 10° Plane Grating Spectroscopic Method Sensor Sensor Age area silicon photodiode array (double row 18 groups) Wavelength Interval I0nm Wavelength Range A00-700mm(The user can view the reflectivity of 31 wavelengths) Reflectance Range Reflectivity resolution Measurement Mode Single measurement, average measurement (2−99 times) Measurement Mode Single measurement, average measurement (2−99 times) About 15 Dimension Length X Width X Height=114X70X208mm Weight About 435g (Calibration Base not included) Battery Illuminant Life Span More than 1.5 million measurements in 10 years Diata Port USB USB, Bluetooth® Data Storage Software Support Windows Android, IOS, Windows, Wechat APPlet, Harmony OS Simplified Chinese, Traditional Chinese, English Power adapter,USB cable,Manual,Quality Management Software(official website download), Calibration Box, Protective Cover, Wrist Strap, Measuring Apents Power adapter,USB cable,Manual,Quality Management Software(official website download), Calibration Box, Protective Cover, Wrist Strap, Measuring Apents Power adapter,USB cable,Manual,Quality Management Software(official website download), Calibration Box, Protective Cover, Wrist Strap, Measuring Apents Strandard Accessory Power adapter,USB cable,Manual,Quality Management Software(official website download), Calibration Box, Protective Cover, Wrist Strap, Measuring Apents	Display	Spectrogram/Values,Samples Chromaticity Values,Color Difference Values/Graph,PASS/FAIL Result,Color Simulation,Color Offset				
Whiteboard Calibration Accuracy Guarantee Observer Angle Cobserver Angle Cobse	Illuminants	Combined Full Spectrum LED Lamp Combined Full Spectrum LED Lamp, UV Lamp				
Accuracy Guarantee Observer Angle Observer Angle 2°, 10° Integrating Sphere Size Spectroscopic Method Plane Grating Large area silicon photodiode array (double row 18 groups) (double row 18 groups) Wavelength Interval 10nm Wavelength Range 400-700mm(The user can view the reflectivity of 31 wavelengths) Reflectance Range 0-200% Reflectivity resolution Measurement Mode Single measurement, average measurement (2-99 times) Measuring Time Dimension Ueight X Width X Height=114XT0X208mm Weight Battery Lithium battery, 3.7V, 5000mAh, 8500 times measurements within 8 hours Illuminant Life Span More than 1.5 million measurements in 10 years Display TFT True Color 3.5inch, Capacitive Touch Screen Data Port Data Storage Software Support Windows Andriod, IOS, Windows, Wechat A.PPlet, Harmony OS Simplified Chinese, Traditional Chinese, English Power adapter, USB cable, Manual, Quality Management Software(official website download), Calibration Box, Protective Cover, Wrist Strap, Measuring Apents Power adapter, USB cable, Manual, Quality Management Software(official website download), Calibration Box, Protective Cover, Wrist Strap, Measuring Apents	Locating Method	Stabilizer, observation Camera observation, stabilizer, observation		stabilizer, observation		
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Software Support Windows Andriod, IOS, Windows, Wechat APPlet, Harmony OS Language Standard Accessory Standard Accessory PC mass storage (one piece of data can include SCI+SCE at the same time), APP/PC mass storage Andriod, IOS, Windows, Wechat APPlet, Harmony OS Simplified Chinese, Traditional Chinese, English Power adapter,USB cable,Manual,Quality Management Software(official website download), Calibration Box, Protective Cover, Wrist Strap, Measuring Apert	Data Port	USB	USB, Bluetooth®			
Software Support Language Standard Accessory Windows Andriod, IOS, Windows, Wechat APPlet, Harmony OS Simplified Chinese, Traditional Chinese, English Power adapter, USB cable, Manual, Quality Management Software (official website download), Calibration Box, Protective Cover, Wrist Strap, Measuring Apert	Data Storage		500 pcs standard samples, 20,000 pcs sam (one piece of data can include SCI+SCE at	ples the same time), APP/PC mass storage		
Standard Accessory Power adapter, USB cable, Manual, Quality Management Software (official website download), Calibration Box, Protective Cover, Wrist Strap, Measuring Apert	Software Support					
g +	Language	Simplified Chinese, Traditional Chinese, English				
Optional Accessory Micro-printer, Powder Test Box	Standard Accessory	Power adapter, USB cable, Manual, Quality Management Software (official website download), Calibration Box, Protective Cover, Wrist Strap, Measuring Apertu				
	Optional Accessory	Micro-printer, Powder Test Box				

GUANGDONG THREENH TECHNOLOGY CO., LTD.











Test Charts





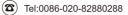
Light Booths



★CONTACT US







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