





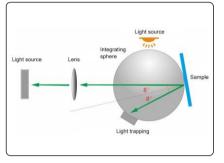
LED light source xenon lamp **TS8560** Desktop spectrophotometer The desktop spectrophotometer TS8560 adopts a dual array CMOS image sensor with high sensitivity and a wide spectral response range, making testing more accurate. It is equipped with a 10.5 inch independent rotatable tablet computer, making operation convenient and fast. Supports two lighting methods: pulse xenon lamp and LED, and the repeatability of the reflection chromaticity value of the TS8560 desktop spectrophotometer $\Delta E * ab \leq 0.01$, inter station difference $\Delta E * ab$ is controlled within 0.1, and the data is stable and reliable.





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Product Features



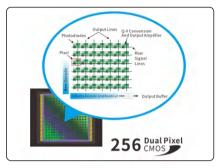
1. Adopting an internationally recognized D/8 structure

The TS8560 desktop spectrophotometer adopts a wide range of D/8 lighting observation conditions and SCI/SCE (including mirror reflection/excluding mirror reflection) synthesis technology internationally, supporting rapid measurement of SCI+SCE simultaneously.



2.Large screen for easy operation, faster and more accurate measurement

Equipped with a 10.5 inch independent rotatable tablet computer, fast response speed, comfortable and convenient operation.



3. Dual array CMOS image sensor

It has high sensitivity and a wide spectral response range, enabling high-precision and repeatable measurements.

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@ D65	O D50	0 A	О¢	O D55
O 075	O F1	O F2	O F3	O F4
O FS	O F6	O #7	O F8	O. F9
O F10	O F11	O F12	O CWF	O DLF
O TL83	O TL84	O TPL5	O U30	OB
O U35	O NBF	O ID50	O ID65	O LED B1
O LED 82	O LED 83	O LED 84	O LED 85	O LED BH1
O LED RGB1	O LED V1	O LED V2	O LED C2	O LED C3
O LED CS	O LED TBG	O U3500		

4. Rich measurement indicators and multiple observation light sources

Provide more than 40 measurement indicators, as well as a variety of customizable light sources (a total of 41 light sources, some implemented through the upper computer) for observation, which can meet special measurement needs under different measurement conditions.



5. Automatic caliber recognition

TS8560 desktop spectrophotometer equipped with 3-4pcs measurement apertures of 25.4/15/8/4mm, and the aperture and lens position can be configured according to needs, taking into account special measurement needs.



6. Convenient measurement and wide sample adaptation

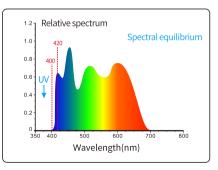
Multiple positions such as side measurement, upward measurement, and downward measurement (using accessories) can be used for measurement. The open transmission chamber is suitable for more tested samples.



7. Automatic temperature and humidity compensation function, making measurement data more accurate



8. Camera positioning for clear observation of the measured area The TS8560 desktop spectrophotometer has a built-in camera for framing and positioning. Through real-time framing, the camera can accurately determine whether the measured part of the object is the center of the target, improving measurement efficiency and accuracy.



9. Adopting a combination of full spectrum LED light sources and UV light sources

360~780nm combined LED light source, including UV, 400nm cut-off light source, 420nm cut-off light source, 360~780nm xenon lamp.



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10, Color management software

The SQCX quality management software paired with the TS8560 portable desktop spectrophotometer 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.



Efficient

- Very suitable for laboratory and factory use
- Multiple measurement apertures, supporting measurement in different situations such as flat and curved surfaces, and small items
- Supports USB wired and Bluetooth wireless transmission, data Instant testing and transmission, convenient and fast.
- Fast and accurate measurement, while measuring SCI and SCE in just 1 second

Accurate reading

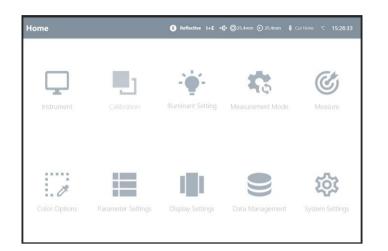
- Measurement accuracy 0.01
- The repeatability standard deviation is within Δ E * ab ≤ 0.1 or less
- Support multiple national and international standard measurements
- Multiple algorithms with different apertures

Powerful

- Suitable for color difference quality control in industries such as plastic electronics, paint and ink, textile and clothing printing and dyeing, printing, ceramics, etc
- Supports WI (ASTM E313,CIE/ISO, AATCC, Hunter,Taube,Berger Stensby), YI (ASTM D1925, ASTM 313), ISO brightness, R457, metamerism index Mt, color fastness to staining,Color fastness, strength, coverage, APHA/Hazen/Pt Co (Platinum Cobalt Index), Gardner (Gardner Index),8-degree glossiness, 555 tone classification, haze transmittance (ASTM D1003), Saybolt index, ASTM D1500 color code, 8 degree gloss, 555 tone classification, blackness (My, dM), Color density CMYK (A, T, E, M), Tint, Color density (some functional functions are achieved through the upper computer)

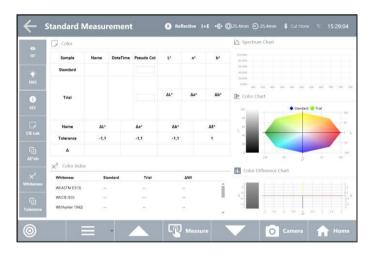


Instrument interface



Illumir	nant		Reflective I+	E 🕂 🏵 25.4mm	🕣 25.4mm 📱 Cut Nor
	D 65	O D50	O A	ОC	O D55
	O D75	O F1	O F2	O F3	O F4
	O F5	O F6	O F7	O F8	O F9
	O F10	O F11	O F12	O CWF	O DLF
	O TL83	O TL84	O TPL5	O U30	ОВ
	O U35	O NBF	O ID50	O ID65	O LED B1
	O LED B2	O LED B3	O LED B4	O LED B5	O LED BH1
	O LED RGB1	O LED V1	O LED V2	O LED C2	O LED C3
	O LED C5	O LED T8G	O U3500		

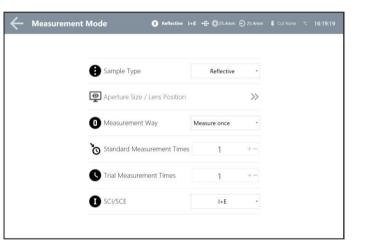
Main menu



Measurement interface

ð	Color Space	CIE Lab	>>
G	Color Formula	∆E*ab	>>
× ^y	Reflectance ColorIndex	Whiteness	>>
× ^y	Transmission ColorInde>	Whiteness	>>
Ċ	Default Tolerance		\gg

Illuminant



Measurement parameter settings

0	Language Setting (English)	>>	
¥	Appearance Setting	>>	
*	Bluetooth	×	
₽	Calibration Period		
(P)	Key Response Mode		
۲	Factory Reset	\gg	
0	About	>>	
€	Exit	>>	

Color options

System settings



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SQCX

Connect devices for powerful functionality expansion

SQCX can be connected to a spectrophotometer through USB cable or Bluetooth (only instruments that support Bluetooth), control the instrument for measurement, change instrument configuration, and operate instrument data. At the same time, it has also greatly expanded the functions of the instrument, supporting multiple color schemes, light sources, and more complex data management, color detection, report generation, etc. It 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.

Management and printing

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.

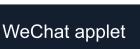














iOS Mobile/PC

Windows

HarmonyOS

Color matching cloud

Technical Parameter –

Model	TS8560(LED light source+xenon lamp)					
Optical Geometry	Reflection: D/8 (diffuse illumination, receiving in 8 ° direction); SCI/SCE measurement; Including UV/exclusion UV measurement; Transmission: D/0 (diffuse illumination, receiving in 0 ° direction) ,SCI/SCE measurement; Including UV/exclusion UV measurement; Haze (ASTM D1003);					
Standard	Conforming to standard CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ISO7724/1, ASTM E1164, DIN5033 Teil7, JIS Z8722 condition C					
Characteristic	 Widely used in industries such as plastic electronics, paint and ink, textile and clothing printing and dyeing, printing, etc. 10.5 inch independent rotatable tablet computer with 128GB storage space and real-time camera viewing. The instrument can be placed in multiple positions for measurement, such as side measurement, upward measurement, and downward measurement (using accessories). Open transmission chamber, capable of testing transmission samples with a thickness of 54mm. Automatic temperature and humidity compensation function. Built in full spectrum and high lifespan LED light sources and xenon light sources, testing fluorescence samples for better recognition. 					
Integrating Sphere Size	Φ154mm					
Light Source	360~780nm combined LED light source, including UV, 400nm cut-off light source, 420nm cut-off light source, 360~780nm xenon lamp					
Spectrophotometric Mode	Concave grating					
Senso	256 pixel dual array CMOS image sensor					
Wavelength Range	360~780nm					
Wavelength Interval	10nm					
Semiband Width	5nm					
Measured Reflectance Range	0~200%					
Reflectivity resolution	0.01					
Measuring Aperture	Reflection: XLAV Φ 25.4mm/ Φ 30mm LAV Φ 15mm/ Φ 18mm MAV Φ 8mm/ Φ 10mm SAV Φ 4mm/ Φ 6mm Transmission: Φ 25.4mm (sample height and thickness are not limited, thickness ≤ 54mm) remarks: 1. Switch caliber automatic recognition 2. Customers can configure the aperture and lens position according to their needs					
Specular Component	Reflection SCI/SCE, Transmission SCI/SCE					
Color Space	CIE LAB,XYZ,Yxy,LCh,CIE LUV,Musell,s-RGB,HunterLab,βxy,DIN Lab99					
Color Difference Formula	Δ E*ab, Δ E*uv, Δ E*94, Δ E*cmc(2:1), Δ E*cmc(1:1), Δ E*00, DIN Δ E99, Δ E(Hunter), Δ E * CH, 555 tone classification					
Other Colorimetric Index	 WI(ASTM E313,CIE/ISO,AATCC,Hunter,Taube,Berger Stensby),YI (ASTM D1925, ASTM 313), ISO brightness, R457, Metamerism index Mt, Color fastness to staining, color change, strength, coverage, APHA/Hazen/Pt Co (Platinum Cobalt Index), Gardner (Gardner Index) 8-degree glossiness, 555 tone classification, haze transmittance (ASTM D1003), Saybolt index, ASTM D1500 color scale, 8-degree glossiness, 555 tone classification, blackness (My, dM), color density CMYK (A, T, E, M), Tint, color density (some functional functions are achieved through the upper computer) 					
Observer Angle	2°/10°					
Illuminant	D65,A,C,D50,D55,D75,F1,F2,F3,F4, F5, F6,F7,F8,F9, F10,F11,F12,CWF,DLF,TL83,TL84,TPL5,U30, B,U35,NBF, ID50, ID65, LED-B1, LED-B2, LED-B3, LED-B4, LED-B5, LED-BH1, LED-RGB1, LED-V1, LED-V2, LED-C2, LED-C3, LED-C5, customizable light sources (a total of 41 types of light sources, some implemented through the upper computer)					
Displayed Data	Spectral map/data, sample chromaticity value, chromaticity difference value/map, chromaticity map, color simulation, qualified/unqualified results, color deviation, color evaluation, haze, liquid chromaticity					
Measuring Time	About 2.0s (while testing SCI/SCE for about 4s)					
Repeatability	Reflection chromaticity value: Φ 25.4mm/SCI, Δ E * ab within 0.01 (LED, after preheating and calibration of the instrument, measure the average standard deviation of the whiteboard 30 times at an interval of 5 seconds) Spectral reflectance/transmittance: ≤ 0.1%					
Inter-instrument Error	Φ 25.4mm/SCI, Δ E * ab within 0.1 (BCRA series II 12 color plates measured average)					
Dimension	Length X width X height=440X248X283mm					
Weight	Approximately 13.5kg					
Battery	DC 24V, 3A power adapter power supply					
Illuminant Life Span	Over 3 million measurements over 5 years					
Display	10.5 inch independent rotatable tablet					
Data Port	USB, Bluetooth ® , printing serial port					
Data Storage	128G storage space, over 100000 pieces (SCI/SCE counts as one piece of data)					
Language	Simplified Chinese, Traditional Chinese, English, Russian, (customizable for German, French, Spanish, Russian, Japanese, Thai, Korean, Polish, Portuguese					
Operating Environment	0~40°C (32~104°F)					
Storage Environment	-20~50°C (-4~122°F)					
Standard Accessory	Power adapter, manual, quality management software (USB flash drive), data cable, standard calibration board, black calibration box, transmission black baffle, sample holder, 25.4 caliber, 15 caliber, 8 caliber, 4 caliber, transmission testing fixture component, colorimetric cell, 10.5 inch tablet computer					
Optional Accessory	Micro printer, inverted stand, culture dish, microporous (4mm) transmission testing fixture assembly, film fixture					
Notes	Subject to change without prior notice					

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Spectrophotometers



Colorimeters Haze Meters



Gloss Meters



Test Charts Light Booths



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CONTACT US

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

Warning:

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Statement:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -Reorient or relocate the receiving antenna.
- -Increase the separation between the equipment and receiver.
- -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -Consult the dealer or an experienced radio/TV technician for help.

The equipment complies with FCC Radiation exposure limit set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

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Test Charts

Gloss Meters





Light Booths

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