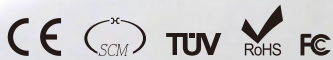


TS7708

Spectrophotometer



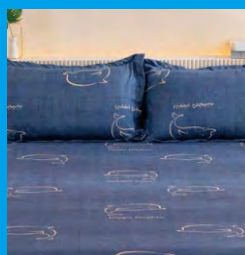
1. Adopt a high-life, low-power, full-spectrum LED light source, including UV/excluding UV;
2. Measure the spectrum of the sample, and the Lab data is accurate, which can be used for color matching and accurate color transmission;
3. USB/Bluetooth dual communication mode, wider adaptability;
4. Super dirt-resistant and stable standard whiteboard;
5. Large-capacity storage space, can store more than 30,000 test data
6. Camera viewfinder positioning, stable film platform measurement positioning;
7. PC-side software has powerful function expansion;



Used for accurate color measurement and quality control in plastic electronics, paint and ink, textile and garment printing and dyeing, printing, ceramics and other industries; it can be used for fluorescent sample measurement.



Plastic



Textile

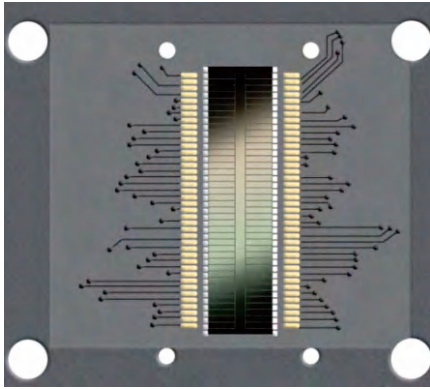


Paint

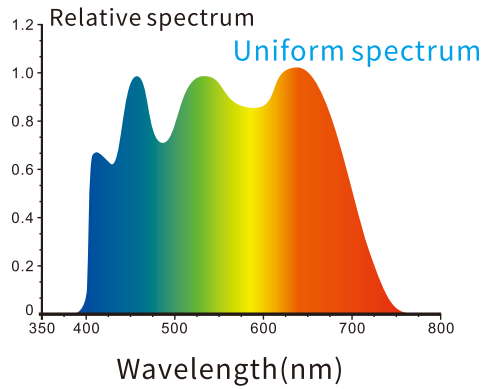


Ceramics

Features



1. Larger area dual 40-array silicon photodiode sensor



2. Using full-band balanced LED light source



3. Grating spectroscopy technology



4. Place the base safely to ensure that the whiteboard is not dirty



5. Professional whiteboard, the promise of never changing color for life



6. Fast charging



7. Novel and fashionable appearance design based on ergonomics



8. Multiple measurement apertures meet most measurement needs



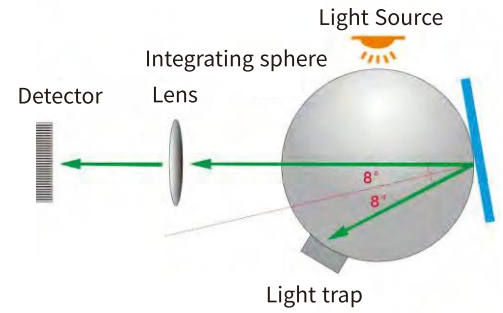
9. Camera framing and positioning can clearly observe the measured area



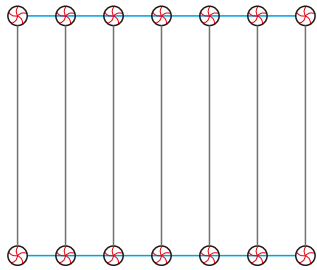
10. The measured values of multiple devices are consistent



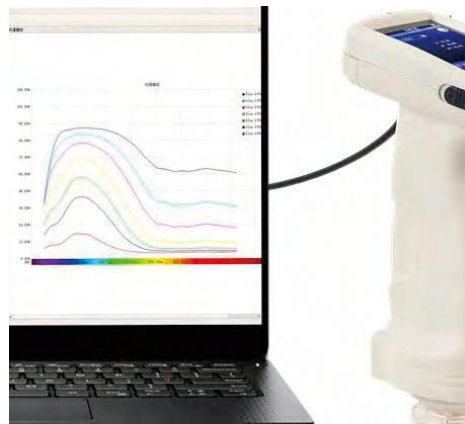
11. Support multiple color spaces and measurement light sources



12. Adopt the international D/8, SCI/SCE synthesis technology



13. Dual optical path system can measure SCI and SCE at the same time



14. Provide professional PC software

Introduce

Under the D8 geometric optical lighting conditions recommended by CIE, the TS7708 spectrophotometer can accurately measure the SCI and SCE reflectance data of samples/fluorescent samples. It can perform various color difference formulas and color indexes in a variety of color spaces. Accurate measurement and presentation. With TS7708 spectrophotometer, it can easily realize the accurate transmission of colors, and it can also be used as a detection equipment for accurate color matching systems. Color difference quality control also has a wide range of applications. TS7708 is equipped with high-end color management software, which can be connected to a computer to achieve more functional expansion.

Optional accessories

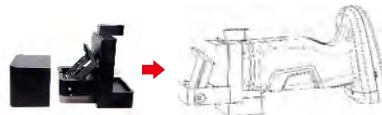
Micro printer: easy to carry, without computer can continuously print out the measurement of various parameters, easy to save.



Powder test box: Easy to use, focusing on powdered target measurement.



Multifunctional test components: can be used to test liquid reagents, sauces (such as ketchup, paint), powders (such as coffee), color masterbatches, etc.



Place the base: quickly place, pick up the machine to use, prevent dust from entering, save space, the base is stable, will not fall.



Technical parameter

Model	TS7708
Optical Geometry	Reflectance: D/8(Diffuse illumination, 8° acceptance) SCI&SCE; Include UV/Exclude UV
Standards Compliant	CIE No.15,GB/T 3978,GB 2893,GB/T 18833,ISO7724-1,ASTM E1164,DIN5033 Teil7
Integrating Sphere Size	Φ40mm
Light Source	Combined full spectrum LED light source, UV light source
Spectroscopic Method	Flat Grating
Sensor	Silicon photodiode array (double row 40 groups)
Spectral Range	360~780nm
Wavelength Pitch	10nm
Semi-bandwidth	10nm
Photometric Range	0~200%
Measurement Aperture	Three calibers: MAV: Φ8mm/Φ10mm; SAV: Φ4mm/Φ5mm; SSAV: 1x3mm SSAV1x3mm: slightly worse accuracy, can be used for color difference test
Specular Component	SCI&SCE
Color Spaces	CIE LAB,XYZ,Yxy,LCh,CIE LUV,s-RGB,HunterLab,βxy,DIN Lab99 Munsell(C/2)
Color difference formulas	$\Delta E^*ab, \Delta E^*uv, \Delta E^*94, \Delta E^*cmc(2:1), \Delta E^*cmc(1:1), \Delta E^*00, \text{DIN}\Delta E99, \Delta E(\text{Hunter})$
Other Colorimetric Index	Spectral reflectance,Whiteness Index (WI) (ASTM E313-00, ASTM E313-73, CIE/ISO, AATCC, Hunter, Taube, Berger, Stensby),Yellowness Index (YI) (ASTM D1925, ASTM E313-00, ASTM E313-73),Metamerism Index Mt,Staining fastness,Color change fastness,Strength (dye strength, tinting strength),Hiding power,8° Gloss,555 Hue Classification,Blackness (My, dM),Color density CMYK,Tint (ASTM E313-00),Color density, Munsell,MI (Melanin index),EI (Erythema index)(Some functions implemented via PC software)
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 (a total of 41 types of light sources, some functions are realized through the host computer).
Displayed Data	Spectrogram/Values, Samples Chromaticity Values, Color Difference Values/Graph, PASS/FAIL Result, Color Offset
Measurement Time	About 1.5s (Measure SCI & SCE about 3.2s)
Repeatability	Spectral reflectance:MAV/SCI,Standard deviation within 0.08% (400 to 700nm: within 0.18%) Chromaticity value:MAV/SCI,within ΔE^*ab 0.03 (After calibration, measure the average value of the whiteboard 30 times at 5s intervals)
Inter-instrument agreement	MAV/SCI ,Within ΔE^*ab 0.15(Average for 12 BCRA Series II color tiles)
Measurement Mode	Single measurement, Average measurement (2~99 times)
Locating Method	Camera Locating,stabilizer cross position
Dimension	129(L)X76(W)X217(H)mm
Weight	Approx 600g
Battery	Li-ion battery, 6000 measurements within 8 hours
Life Lamp	5 years, more than 3 million times measurements.
Screen	3.5-inch TFT color LCD, Capacitive Touch Screen
Interface	USB,Bluetooth
Data storage	Standard: 1,000 Pcs; Sample: 30,000 Pcs.(One PCS can include both SCI and SCE)
Software support	Android, iOS, Windows, WeChat Mini Program, HarmonyOS
Languages	English, Chinese ,Traditional Chinese, Russian
Operating Environment	Temperature: 0~40°C; Humidity: 0~85% (No Condensation) Altitude: less than 2000m
Storage Environment	Temperature: -20~50°C; Humidity: 0~85% (No Condensation)
Standard Accessories	Power Adapter, User Guide, PC Software(Download from office website), USB cable, White and Black Calibration Cavity, Protective Cover, Wrist strap, 8mm flat aperture, 8mm tip aperture, 4mm flat aperture, 4mm tip aperture,1x3mm tip aperture
Optional Accessories	Micro Printer,Powder test box ,Multifunctionaltestassembly,placingbase

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