



3nh Global



Portable Desktop Grating Spectrophotometer

The portable desktop spectrophotometer TS8260 is a spectrophotometer developed by 3NH with independent core spectroscopic technology. It adopts built-in silicon photodiode array (40 groups in double rows) sensors and imported white board, and gives consideration to: the speed of measurement and the convenience of operation. The rotating and pressing structure makes the test more convenient. TS8260 portable desktop spectrophotometer color measurement instrument features with repeatability ΔE^*ab easily control within: 0.02, and inner errors ΔE^*ab control within 0.15. This accuracy measurement makes it good used in the lab color accurate analysis and transfer.

TS8260 PORTABLE DESKTOP SPECTROPHOTOMETER

Flat Grating



7-inch large touch screen



400-700nm spectrum display



Camera Locating



SHENZHEN THREEENH TECHNOLOGY CO., LTD.



APPLICATION INDUSTRY

TS8260 portable desktop spectrophotometer color measurement instrument equipped with $\Phi 4\text{mm}$ and $\Phi 8\text{mm}$ free switch diameter measurement, good for horizontal or vertical measurement, wider adaptability, suitable for precise color measurement and quality control in textile and garment printing and dyeing, plastic electronics, ceramics and other industries; and it can be used for fluorescence sample measurement.

PRODUCT ADVANTAGES

1. Adopt combination full spectrum LED light source

Full band balanced LED light source ensures sufficient spectral distribution in visible light range, avoids the spectral loss of white LED in specific band, ensures the accuracy of instrument measurement speed and measurement results.

2. Silicon photodiode array sensor (40 groups with double rows)

Double 40 array sensor with larger area, high light saturation, high sensitivity of low light and wide spectral response range ensure the measurement speed, accuracy, stability and consistency of the instrument.

3. Calibration Certificate

TS8260 spectrophotometer has been verified and tested. After leaving the factory, each instrument is verified according to the measurement standards of authoritative verification departments, and the measurement data are traceable to the National Metrological Institute to ensure the authority of the instrument test data.

4. Industrial-grade HD touch screen, easy to use user interface

Using 7-inch industrial grade HD touch screen, smooth operation, the user interface is easy to use and it makes the operation to become comfortable and convenient.

5. 10 color spaces, 18 light sources

Built-in ten kinds of color measurement spaces and eighteen kinds of observation light sources can meet the special measurement requirements under different measurement conditions.

6. Color management software

SQCX quality management software with TS8260 spectrophotometer is suitable for quality monitoring and color data management in various industries. Data the user's color management, compare color differences, generate test reports, provide multiple color space measurement data, and customize the customer's color management.



Color management software

SPECIFICATION PARAMETER

TS8260 Portable desktop spectrophotometer

Model:TS8260

Optical Geometry:D/8(diffused illumination, 8-degree viewing angle),SCI (specular component included)/SCE (specular component excluded) ;Include UV / excluded UV light source,Comply to CIE No.15,GB/T 3978,GB 2893,GB/T 18833,ISO7724-1,ASTM E1164,DIN5033 Teil7

Characteristic: $\Phi 8/4$ mm apertures,free switch,good for horizontal or vertical measurement, wider adaptability;Accurate measurement, can be used for laboratory color accurate analysis and transmission;Suitable for precise color measurement and quality control in textile and garment printing and dyeing, plastic electronics, ceramics and other industries; It can be used for fluorescence sample measurement.

Integrating Sphere Size: $\Phi 40$ mm

Light Source: Combined full spectrum LED light source, UV light source

Spectrophotometric Mode: Flat Grating

Senso: Silicon photodiode array (double row 40 groups)

Wavelength Range: 400~700nm

Wavelength Interval: 10nm

Semiband Width: 10nm

Measured Reflectance Range: 0~200%

Measuring Aperture: MAV: $\Phi 8$ mm/ $\Phi 10$ mm;SAV: $\Phi 4$ mm/ $\Phi 5$ mm

Specular Component: SCI/SCE

Color Space: CIE LAB,XYZ,Yxy,LCh,CIE LUV,s-RGB,HunterLab, β_{xy} ,DIN Lab99 Munsell(C/2)

Color Difference Formula: $\Delta E^*ab, \Delta E^*uv, \Delta E^*94, \Delta E^*cmc(2:1), \Delta E^*cmc(1:1), \Delta E^*00, DINA\Delta E99, \Delta E$ (Hunter)

Other Colorimetric Index: WI(ASTM E313,CIE/ISO,AATCC,Hunter), YI(ASTM D1925,ASTM 313),Metamerism Index MI,Staining Fastness, Color Fastness, Color Strength, Opacity, 8° Glossiness,555 tone classification

Observer Angle: 2°/10°

Illuminant: D65,A,C,D50,D55,D75,F1,F2(CWF),F3,F4,F5,F6,F7(DLF),F8,F9,F10(TPL5),F11(TL84),F12(TL83/U30)

Displayed Data: Spectrogram/Values, Samples Chromaticity Values, Color Difference Values/Graph, PASS/FAIL Result, Color Simulation, Color Offset

Measuring Time: About 1.5s (Measure SCI & SCE about 3.2s)

Repeatability: Chromaticity value: MAV/SCI, within $\Delta E^*ab 0.02$ (When a white calibration plate is measured 30 times at 5 second intervals after white calibration)

Inter-instrument Error: MAV/SCI, Within $\Delta E^*ab 0.15$ (Average for 12 BCRA Series II color tiles)

Measurement Mode: Single Measurement, Average Measurement(2~99times)

Locating Method: Camera Locating

Dimension: L*W*H=370X240X260mm

Weight: About 7.8kg

Battery: AC 24V, 3A Power adapter power supply

Illuminant Life Span: 5 years, more than 3 million times measurements

Display: 7-inch TFT color LCD, Capacitive Touch Screen

Data Port: USB, Bluetooth ®5.0, trigger switch interface

Data Storage: Standard 1000 Pcs, Sample 30000 Pcs

Language: Simplified Chinese, English, Traditional Chinese

Operating Environment: 0~40°C, 0~85%RH (no condensing), Altitude < 2000m

Storage Environment: -20~50°C, 0~85%RH (no condensing)

Standard Accessory: Power Adapter, USB Cable, User Guide, PC Software(Download from office website), White and Black Calibration Cavity, 8mm Aperture, 4mm Aperture

Optional Accessory: Micro Printer, Foot Switch, Rotating Bracket

Notes: Technical parameters are only for reference, subject to the actual sale of the product

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.



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The specifications and design may be changed without notice.