









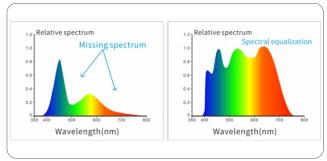


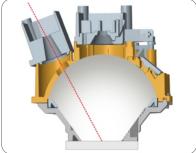
APPLICATION INDUSTRY

With 8mm aperture, TS7010 spectroclorim-eter is widely suitable for the industry production and quality inspection of accurate color difference control like plastic electronics, paint and ink, textile printing and dyeing, printing, ceramic industry etc.



PRODUCT ADVANTAGES







Full band balanced LED light source

ETC real-time calibration technology

Import White Calibration Board

1.Ergonomic design and easy measuring device

TS7010 spectrocolorimeter has a beautiful, smooth shape and comfortable grip, in line with the structure design of human mechanics, fit the palm for continuous testing, so that you can use it quickly and easily. An automatic measuring device is added, which is portable, quick and easy to measure.

2. Adopt full waveband balanced LED light source

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

3. Silicon photodiode array sensor (24 groups with double rows)

The dual-24 array sensor with larger area has strong light but not saturate, higher sensitivity of low light and wider spectral response range, which ensures the measurement speed, accuracy, stability and consistency of the instrument.

4. Calirbation Certificate

Each TS7010 spectrocolorimeter 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 Metrotechnical Institute to ensure the authority of the instrument test data.

5. ETC real-time calibration technology

TS7010 spectrophotometer adopts imported standard white board, which is resistant to yelloping and dirt infiltration and can be wiped, ensuring the long-term accuracy of the instrument. An innovative ETC real-time Calibration technique is also used, with a built-in standard white board into the optical system, which is reliably accurate and repeatable for each Test.

SPECIFICATION PARAMETER

TS7010 Spectrocolorimeter

Model: TS7010

Optical Geometry: D/8(diffused illumination, 8-degree viewing angle), SCI Mode, Comply to CIE No.15, GB/T 3978,GB 2893,GB/T

18833,ISO7724-1,ASTM E1164,DIN5033 Teil7

Characteristic: Ф8mm apertures, 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

Integrating Sphere Size: Ф40mm

Light Source: Combined full spectrum LED light source

Spectrophotometric Mode: Flat Grating

Senso: Silicon photodiode array (double row 24 groups)

Wavelength Range: 400 ~ 700nm

Semiband Width: 10nm

Measured Reflectance Range: L:0~100; reflectivity: The reflectivity can be measured at 1 specific wavelength specified by the user

(default: 550nm)

Measuring Aperture: Φ8mm

Specular Component: SCI
Color Space: CIE LAB,XYZ,Yxy,LCh
Color Difference Formula: ΔΕ*ab,ΔΕ*00

Observer Angle: 10° **Illuminant:** D65,A,F2(CWF)

Displayed Data: Reflectivity (the user specifies the reflectivity at 1 specific wavelength), Samples Chromaticity Values, Color Difference

Values/Graph, PASS/FAIL Result, Color Simulation, Color Offset

Displayed Accuracy: 0.1 **Measuring Time:** About 1.5s

Repeatability: Chromaticity value: MAV/SCI, within ΔE*ab 0.1 (When a white calibration plate is measured 30 times at 5 second

intervals after white calibration)

Inter-instrument Error: MAV/SCI, Within ΔE*ab 0.4(Average for 12 BCRA Series II color tiles)

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

Locating Method: Stabilizer cross position **Dimension:** L*W*H=81X71X214mm

Weight: About 460g

Battery: Li-ion battery, 6000 measurements within 8 hours

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

Display: 3.5-inch TFT color LCD, Capacitive Touch Screen

Data Port: USB

Data Storage: Standard 500 Pcs, Sample 10000 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, White and Black Calibration Cavity, Protective Cover, Wrist strap, 8mm flat

aperture

Optional Accessory: USB Micro Printer, Powder Test Box

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



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