3nh.com

Flat Grating

3.5in color touch screen

400-700nm measuring range

TS7010

ECONOMICAL SPECTROCOLORIMETER

INTRODUCTION

TS7010 is a new portable spectrocolorimeter with 3nh own core research and development technology. It is the high level colorimeter in spectral architecture. In addition to ensure accurate relative ΔE at the same time, it is also to ensure the accuracy of the absolute value of L, A and B for a long time. And it can pass the international standards and national standards of calibration any time any where.

Import White Calibration Board

ISO 9001 Certified CE SCM TÜV RoHS FC

SHENZHEN THREENH TECHNOLOGY CO., LTD.

APPLICATION INDUSTRY

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


Automobibe


Leather


Plastics

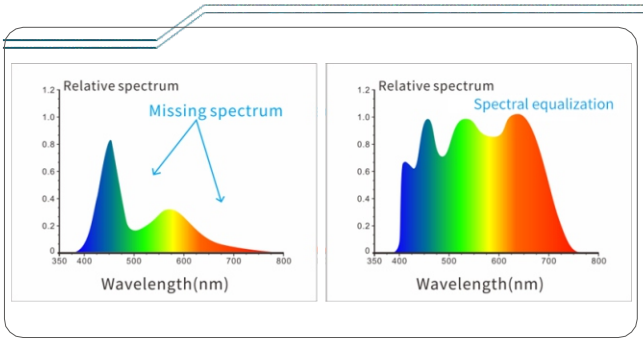

Paint


Food stuff

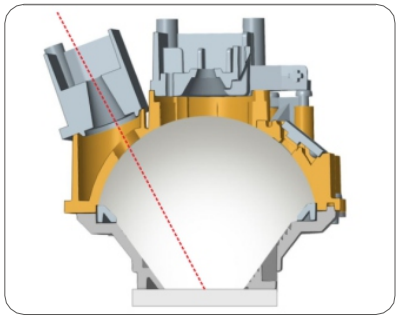

Laboratory

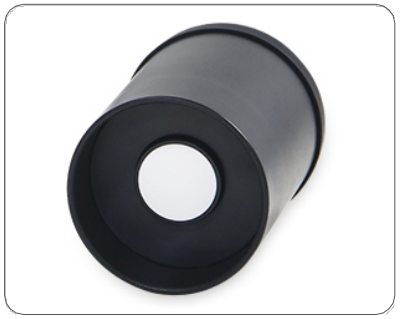
Others

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.1 5, GB/T 3978,GB 2893,GB/T 1 8833,ISO7724-1,ASTM E1 164,DIN5033 TeiI7
Characteristic: 68mm 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: @40mm
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: 68mm
Specular **Component:** SCI
Color Space: CIE LAB,XYZ,Yxy,LCh
Color **Difference Formula:** AE*ab,AE*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 AE*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 AE*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

3nh
Focus on Color

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