



TS7010 HIGH QUALITY SPECTROCOLORIMETER

TS7010 is a new portable spectrophotometer 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. Using built-in silicon photodiode array (double row group 24) sensors, imported whiteboard, repeatability $\Delta E^* ab$ is easily controlled within 0.1.



3.5in color touch screen



Dual-array silicon photoelectric Diode sensor



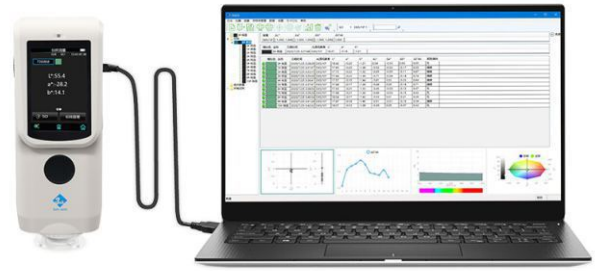
Planar grating



400~700nm

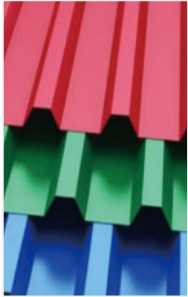
PRODUCT FEATURES

1. $\Phi 8$ mm measuring diameter, 10° angle observer can meet most of the industry customer requirements;
2. Combination of full-spectrum LED light source, flat grating and true color capacitive touch screen, with a high starting point;
3. Silicon photodiode array (24 groups with double rows) sensor, display precision 0.1, good repeatability;
4. The light source life is more than 3 million measurements in 5 years, and the lithium battery takes 6,000 measurements within 8 hours, which can be recharged repeatedly and has a long battery life;
5. Quick data search, analysis and comparison with 500 standard data storage samples and 10000 samples.



APPLICATION INDUSTRY

TS7010 can meet the analysis and control of the quality in the production process of plastics (PET, PE, PP, PTA, ABS, EVA particles and powders), color steel plates, coatings, textiles, denim, medicine, food and other industries, and help companies control products Color difference, improve product competitiveness, reduce business losses, and control production costs.



Color steel plate



Textile



Plastic



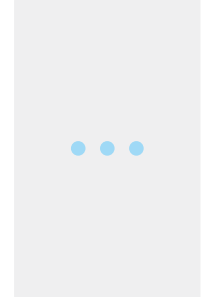
Coating



Food



Laboratory



Other

TECHNICAL SPECIFICATIONS

Model: TS7010

Optical geometry: D/8°, SCI

Standards compliant: CIE No.15, GB/T 3978, GB 2893, GB/T 18833, 1S07724-1, ASTM E1164, DIN5033 Teil7

Integrating Sphere Size: $\Phi 40$ mm

Lighting source: Combined full spectrum LED light source

Spectral mode: Planar grating

Sensor: Silicon photodiode array (dual row 24 groups)

Wavelength Range: 400~700nm

Semiband Width: 10nm

Measured Reflectance Range: L: 0 ~ 100 user can specify a specific wavelength reflectivity (default 550nm)

Measuring aperture: $\Phi 8$ mm

Specular Component: SCI

Color Space: CIE LAB, XYZ, Yxy, LCh

Color Difference Formula: $\Delta E^*ab, \Delta E^*00$

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

Display accuracy: 0.1

Measurement Time: about 1.5s

Repeatability: Chromaticity value: MAV/SCI, within $\Delta E^*ab < 0.1$ (When a white calibration plate is measured 30 times at 5 second intervals after white calibration)

Inter-instrument Error: MAV/SCI, $\Delta E^*ab < 0.4$ (Average for 12 BCRA Series II color tiles)

Measurement mode: Single measurement, average measurement (2 ~ 99 times)

Measurement mode: Stabilizer cross position

Size: 81X71X214mm

Weight: about 460g

Battery: Lithium battery, 6000 times in 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 is only charging, does not support quality control software

Data Storage: Standard 500 Pcs, Sample 10000 Pcs

Language: Simplified Chinese, English, Traditional Chinese

Standard Accessories: Power Adapter, USB Cable, User Guide, White and Black Calibration Cavity, Protective Cover, Wrist strap, 8mm flat aperture

Standard Accessories: USB micro printer, powder test box

3nh[®]
Focus on Color

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