

Spectrophotometer TP 3100

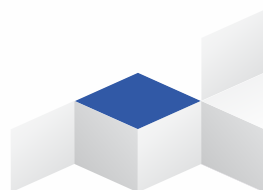


A color spectrophotometer is an instrument designed for physical sample analysis via full spectrum color measurement. Color spectrophotometers offer a higher level of flexibility and versatility than colorimeters due in part to the fact that they offer multiple illuminant/observer combinations and can operate in multiple geometric arrangements.

With the D/8 geometric optical illumination recommended by CIE , the instruments can measure SCI/SCE reflectance data of sample , and can measure and indicate all color difference formulas and color indexes in various of color spaces accurately. Conforms with CIE No.15,GB/T 3978,GB2893, GB/T 18833, ISO7724/1, ASTM E1164, DIN5033 Teil.

Features :

- concave grating, 256 Image Element Double Arrays CMOS Image Sensor;
- equipped with long life and low power consumption combined LED light source
- Switchable 8/4mm aperture,
- Can support both SCI and SCE at the same time
- Measure sample spectra, accurate Lab data , can be used in color matching and accurate color transmission;
- 3.5-inch TFT color LCD,Capacitive Touch Screen,
- Dual mode for data transferring USB/Bluetooth 2.1
- Super stain-resistant and stable standard white calibration plate;
- Capacity to store measurements upto 2000 standard readings & 20000 sample readings.
- Two standard observer angles, a variety of illuminant, a variety of color indexes, conforms with a variety of standard colorimetric data which makes the instrument useful in almost every industry.



Technical Specifications :

Optical Geometry	Reflect: di:8°, de:8°(diffused illumination, 8-degree viewing angle)
Integrating Sphere Size	48mm
Light Source	Combined LED Light, UV Light
Spectrophotometric Mode	Concave Grating
Sensor	256 Image Element Double Array CMOS Image Sensor
Wavelength Range	400-700nm
Wavelength Interval	10nm
Measuring Aperture	Dual Aperture: 10mm/8mm & 5mm/4mm
Specular Component	SCI&SCE
Color Space	CIE Lab, XYZ, Yxy, LCh, CIE LUV, Hunter LAB, RGB
Color Difference Formula	ΔE^*_{ab} , ΔE^*_{uv} , ΔE^*_{94} , $\Delta E^*_{cmc}(2:1)$, $\Delta E^*_{cmc}(1:1)$, ΔE^*_{00v} , ΔE (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
Observer Angle	2°/10°
Illuminant	D65, A, C, D50, D55, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12
Displayed Data	Spectrogram/Values, Samples Chromaticity Values, Color Difference Values/Graph, PASS/FAIL Result, Color Offset
Measuring Time	2.6s
Repeatability	MAV/SCI: $\Delta E^* \leq 0.03$
Measurement Mode	Single Measurement, Average Measurement
Battery	Li-ion battery. 5000 measurements within 8 hours
Dimension	L*W*H = 184*77*105mm
Weight	600g
Illuminant Life Span	5 years, more than 3 million times measurements
Display	3.5-inch TFT color LCD, Capacitive Touch Screen
Data Port	USB, Bluetooth 4.0
Data Storage	Standard 2000 Pcs, Sample 20000 Pcs
Language	English, 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, Built-In Li-ion Battery, User Guide, PC Software, White and Black Calibration Cavity, Dust Cover

Head Office :

Presto Stantest Private Limited

I-42, DLF Industrial Area Phase-1, Delhi Mathura Road, Faridabad 121003, Haryana, India

P : +91 129 4272727 (100 Lines) E : info@prestogroup.com

• Faridabad • Kolkata • Mumbai • Pune • Ahmedabad • Chennai • Bangalore

www.prestogroup.com

