



Presto Stantest Pvt. Ltd.

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Spectrophotometer TP 900

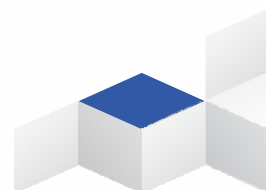


A color spectrophotometer is an instrument designed for physical sample analysis via full spectrum color measurement. Color spectrophotometers offer a higher level of flexibility and versatility than colorimeters due in part to the fact that they offer multiple illuminant/observer combinations and can 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 Teil7

Features :

- concave grating, 256 Image Element Double Arrays CMOS Image Sensor;
- equipped with long life and low power consumption combined LED light source
- 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
- Super stain-resistant and stable standard white calibration plate;
- Capacity to store measurements upto 500 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.





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Technical Specifications :

Optical Geometry	45/0 (45 Ring -shaped illumination ,0 degree viewing angle)
Integrating Sphere Size	48mm
Light Source	Combined LED light
Spectrophotometric Mode	Concave Grating
Sensor	256 Image Element Double Array CMOS Image Sensor
Wavelength Range	400-700nm
Wavelength Interval	10nm
Measuring Aperture	8mm
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
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	1.5 S
Repeatability	MAV/Standard Direction within 0.17(4w to 7nm: Within 0.27)
Measurement Mode	Single Measurement, Average Measurement (2-99)
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
Data Storage	Standard 500 Pcs, Sample 20000 Pcs
Language	English, Chinese
Operating Environment	0 ~ 40°C, 0 ~ 85%RH (no condensing), Altitude < 2000m
Storage Environment	0 ~ 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

