

Presto Stantest Pvt. Ltd.

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Benchtop Spectrophotometer



Model - FS890

Overview

The Benchtop Spectrophotometer FS890 is an advanced analytical instrument designed to measure color, appearance, reflectance, and transparency across a wide range of industries including printing, plastics, textiles, coatings, food, and packaging. It plays a crucial role in ensuring product quality and consistency by quantifying color values under standardized lighting conditions, helping manufacturers maintain brand integrity and meet regulatory requirements.

This equipment is particularly important in industries where visual properties like gloss, opacity, and transparency influence consumer perception and product functionality. By providing accurate measurements of reflectance and transmittance, the spectrophotometer enables precise formulation, quality control, and compliance with global standards (CIE, ASTM, ISO). Its robust design, multiple measurement apertures, and advanced data analysis



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capabilities make it a critical tool for research labs, production units, and quality assurance departments.

Technical Specifications

Parameter	Specification
Illuminant	360nm-780nm Combined LED Lamp,
	400nm cut-off
Sensor	256 Image Element Double Array CMOS
	Image Sensor
Wavelength Pitch	10 nm
Semiband Width	10 nm
Reflectance Range	0-200%
Measuring Aperture	Reflective: Φ30mm/Φ25.4mm,
	Φ18mm/Φ15mm, Φ10mm/Φ8mm,
	Ф6mm/Ф4mm; Transmissive: Ф30mm,
	Ф25.4mm
Integrating Sphere Size	Φ 154mm
Optical Geometry	Reflectance: d/8 (SCI⪰ Include
	UV/Exclude UV); Transmittance: d/0
	(SCI⪰ Include UV/Exclude UV)
Conformance	CIE No.15, GB/T 3978, GB 2893, GB/T
	18833, ISO7724/1, ASTM E1164, DIN5033
	Teil7
Color Space	CIE LAB, XYZ, Yxy, LCh, CIE LUV, Musell, s-
	RGB, HunterLab, βxy, DIN Lab99
Color Difference Formula	ΔE ab, ΔE uv, ΔE 94, ΔE cmc(2:1), ΔE
	cmc(1:1), AE 00, DINΔE99, ΔE(Hunter)
Observer	2° / 10°
Illuminants	D65, A, C, D50, D55, D75, F1-F12
Measurement Time	About 3 s (Measure SCI & SCE about 6s)
Repeatability	Spectral reflectance: Φ25.4mm/SCI, SD
	within 0.05% (400-700 nm: within 0.04%);
	Chromaticity value: Φ25.4mm/SCI, SD
	ΔE^* ab within 0.02; Spectral Transmittance:
	Φ25.4mm/SCI, SD within 0.05% (400-700
	nm: within 0.04%); Chromaticity value:
T	Φ25.4mm/SCI, SD within ΔΕ*ab 0.03
Inter-instrument Error	Φ 25.4mm/SCI, Within ΔE*ab 0.15 (Average
W. I. D.	for 12 BCRA Series II color tiles)
Working Environment	Temperature: 0~40°C; Humidity: 0~85%
O. B. I	(No Condensation)
Storage Environment	Temperature: -20~50°C; Humidity: 0~85%
	(No Condensation)



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Data Storage Capacity	Standard 5000 Pcs, Sample 40000 Pcs (one PCS can include both SCI and SCE)
Light Source Device Life	5 years, more than 3 million times
	measurements
Screen	7" TFT Capacitive Screen-touch Display
Data Port	USB & Bluetooth
Standard Accessory	Power adaptor, manual, standard calibration plate, Checking Green Board, Sample Holder, Ф4 mm, Ф8 mm, Ф15 mm, Ф25.4mm, USB Cable, User Guide, PC Software, Transmissive Test fixture Assembly
Size	370x300x200 mm
Weight	9.6 kg
Power Supply	DC 24V, 3A Power Adapter

Optional Accessories -

Micro-Printer, Transmissive Test clamp component

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