

Table Top Spectrophotometer LTS-A15



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Table Top Spectrophotometer LTS-A15 is an instrument with consistent 45/0 geometry and visual perpetual color value which completely eliminate the specular light on the surface of the texture for color measurement. Ring-shaped illumination system eliminates the direction dependence regardless of sample position. High accuracy and repeatability is gained by tilted sample or rotating instrument. It is ideal for the color measurement of tomato sauces, automotive interior parts, textiles, coatings, road traffic signs, printing materials.

Features

- ▶ Instrument adopts 45/0 geometry (45 ring shaped illumination, 0 degree viewing)
- ▶ Ring shaped illumination system
- ▶ 20000 test results storage capacity
- ▶ In-built Color QC Software
- ▶ Rechargeable battery with continuous set operation
- ▶ 5 inch color display screen
- ▶ Comply with International Measurement Standards

Applications

Widely used in the color measurement in the coating, thin films, plastic, rubber and printed industrial samples like automobile decoration, road signs, plastic floor, color steel plate, home decoration, coal coating, PET film, screen film, reflective film, plastic package, magazine and label.

Specifications

Model No	LTS-A15
Wavelength Range	400 nm to 700 nm
Wavelength Interval	10 nm
Sensor	High sensitivity silicon photodiode
Light Source	LED
Working Temperature Range	0 °C to 45 °C
Measurement Aperture	11 mm
Geometry	45/0 (45 ringed shaped illumination,
	0 degree viewing)
Observer Viewing Angles	2° / 10°
Repeatability	Standard deviation within 0.08%
	Chromaticity Value; $\Delta E^*ab \leq 0.03$ (When a white calibration
	plate is measured at 30 x at 5-second
	intervals after white calibration), Max. 0.03
Inter-Instrument Agreement	ΔE^*ab within 0.2 (BCRA Series II,
	average measurement of the 12 tiles)
Illuminants	A,C,D50,D55,D65,D75,F1,F2,F3,F4,F5,F6,F7,
	F8,F9,F10,F11,F12,CWF,U30.DLF,NBF,TL83,TL84.U35
Color Spaces	CIE-L*a*b, L*C*h, L*u*v, XYZ, Yxy, Reflectance
	Hunter lab, Munsell MI, CMYK, RGB, HSB

Color Difference	$\Delta E^*ab, \Delta E^*CH, \Delta E^*uv, \Delta E^*cmc(2:1), \Delta E^*cmc(1:1),$
	$\Delta E^*94, \Delta E^*00, \Delta Eab(\text{Hunter}), 555 \text{ shade sort}$
Color Difference	WI(ASTM E313-10, ASTM E313-73, CIE/ISO, AATCC, Hunter,
	Taube Berger, Ganz, Stensby); YI(ASTM D1925, ASTM E313-
	00, ASTM E313-73); Tint(ASTM E313, CIE, Ganz) Metamerism
	index Milm, Stick color fastness, Color fastness ISO
	Brightness, 8 gloss, A density, T density,
	M density, E density
Standards	CIE-15-2004; ASTM-D523; ASTM-D2244; ASTM D2457
Illumination Life time	10 years 3 million test
Interface	USB
Screen Size	5 Inches Color Screen
Storage Memory	20000 test results
Battery Capacity	Rechargeable, 1000 continuous tests
Power	7.4 V/ 6000 mAh
Dimensions (L × W × H)	350 × 300 × 200 mm
Weight	4.5 kg (without battery)

Standard Accessories

No.	Accessory Name
1	AC Adapter
2	Lithium battery
3	Color QC software
4	USB Cable
5	Black and white calibration tile