

PORTABLE SPECTROCOLORIMET ER SPE73-700



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Portable Spectrocolorimeter is a portable instrument designed to measure transmittance of sample and color measurement.

SPE73-700 PORTABLE SPECTROCOLORIMETER

Adopt international common use d/8 SCI/SCE Synthesis technology

Adopt full waveband balanced LED light source

Silicon photodiode array sensor (32 groups with double rows)

A variety of color space, a variety of observation light sources

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Ergonomic design and easy measuring device

Pass the Calibration Certificate

ETC real-time calibration technology

Camera locating can clearly observe the measured area

Color management software

SPECIFICATIONS

Model	SPE73-700
Optical Geometry	D/8° diffused illumination, 8-direction reception
Integrating Sphere Size	Φ 40mm
Light source device	Combined LED lamp
Spectroscopic Method	Flat Grating
Sensor	Silicon photodiode array (dual arrow 24 groups)
Light wave range	400-700nm
Wavelength Pitch	10 nm
Measured Reflectance Range	L:0~100; reflectivity:The reflectivity can be measured at 3 specific wavelengths specified by the user (default: 440nm, 550nm, 600nm)
Measuring Aperture	Φ8mm
Specular Component	SCI
color space	CIE LAB,XYZ,Yxy,Lch
Color Difference Formula	ΔE^*_{ab} , ΔE^*_{00}
Observer angle	10°
Illuminant	D65,A,F2(CWF)
Displayed Data	Reflectance (the user specifies the reflectivity at 3 specific wavelengths), Samples Chromaticity Values, Color Difference Values/Graph, PASS/FAIL Result, Color Simulation, Color deviation
Displayed Accuracy	Display 0.1, store 0.01
Measuring Time	About 1.5s
Repeatability	Chromaticity value: MAV/SCI, within ΔE^*_{ab} 0.08 (When a white calibration plate is measured 30 times at 5 second intervals after white calibration)
inter-instrument error	MAV/SCI, Within ΔE^*_{ab} 0.4(Average for 12 BCRA Series II color tiles)
Measurement mode	Single Measurement, Average Measurement(2-99times)
Locating Method	Stabilizer cross position
Operating Environment	0~40°C, 0~85%RH (no condensing), Altitude < 2000m
Storage Environment	-20~50°C, 0~85%RH (no condensing)
Battery	Li-ion battery, 6000 measurements within 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
Data Storage	Standard 500 Pcs, Sample 10000 Pcs
Language	Chinese, English, traditional Chinese
Standard Accessories	Power Adapter, data Cable, manual, SQCX quality, management Software(Download from office website), White and Black Calibration box, Protective Cover, Wrist strap, 8mm platform caliber
Optional Accessory	USB Micro Printer, Powder Test Box
Dimension	81X71X214mm
Weight	About 460g

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