



Portable spectrophotometer LD-LSP-B10

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Overview

LD-LSP-B10 Portable Spectrophotometer is designed for accurate color measurement across various materials and applications. It combines spectral measurement technology, automatic calibration, multiple measurement apertures, and digital connectivity to support reliable color evaluation and quality control.

Features:

- Full-band LED and UV illumination enables measurement of fluorescent materials
- High-precision CMOS sensor provides stable measurement performance
- Grating spectroscopy delivers accurate spectral analysis
- Automatic calibration simplifies routine operation
- Interchangeable apertures accommodate different sample sizes
- Camera positioning facilitates accurate targeting of the measurement area
- Multiple connectivity options support convenient data transfer and analysis
- Wide selection of measurement parameters and illuminants supports diverse color evaluation needs
- Large data memory allows storage of standards and measurement records
- Rechargeable battery enables extended portable operation

Applications:

Suitable for color quality control and comparison in industries such as paints and coatings, printing, textiles, plastics, automotive components, household products, and research laboratories.

Specifications:

Sensor	Dual-column high-precision CMOS array sensor
Battery	3.7 V / 3000 mAh; up to 8,000 continuous measurements
Display	3.5-inch IPS full-color screen
Calibration	Smart automatic calibration
Connectivity	USB and Bluetooth
Data Storage	100 standard samples and 10,000 samples
Light Source	Full-band balanced LED + UV
Repeatability	$\Delta E^*_{ab} \leq 0.025$
Display Accuracy	0.01
Measurement Time	Approx. 1.5 seconds

Software Support	Android, iOS, Windows
Wavelength Range	400–700 nm
Reflectance Range	0–200%
Standard Observer	2° and 10°
Integrating Sphere	Ø40 mm
Wavelength Interval	10 nm
Optional Accessories	Powder measuring jig, liquid measuring jig, and Bluetooth printer
Spectroscopic Method	Grating
Standard Accessories	Calibration base, USB drive, charger, USB data cable, measurement apertures
Measurement Apertures	MAV: Ø8 mm / Ø11 mm; SAV: Ø4 mm / Ø6 mm; MINI: 1 × 3 mm
Reflectance Resolution	0.01%
Inter-Instrument Difference	$\Delta E^*_{ab} \leq 0.25$
Illumination / Viewing Geometry	d/8, SCI + SCE