ZL808 Spectrophotometer

- Special for traffic signs

ZL808 Spectrophotometer is special designed for the color measurement of traffic signs. It was researched and developed solely independently who owns the complete independent intellectual property rights. Its leading position in the industry is earned by its powerful functions, high accuracy and reliability. ZL808 can be easily used to measure the brightness factor and chromaticity coordinate of all kinds of traffic signal reflection film. Built-in GB2893 safety color and GB/T18833 all kinds of standard color module of traffic signal reflection films, we can choose one according to the requirement. In addition, we can also conveniently customize polygon tolerance they want.

At the same time, ZL808 is also widely used in plastics, electronics, paintings, inks, testiles, garments, dyeing, printing, paper, automobiles, medical, cosmetics and food, etc, and other industries. It is also used in some scientific research institutes and laboratories.

ZL808 can measure multiple color indexes from many color spaces to get precise measurement like reflectance spectrum. With ZL808, we not only do the study of color matching and color management, but also do color quality control. Configured with PC software, we can connect to PC and get more extension functions.

Features:

1. Specially designed to measure traffic signs.

2. Elegant appearance combines ergonomic design

3. 45° /0 geometry optical structure, conform to standard CIE, ISO, ASTM and DIN, incomparable accuracy.

4. 3.5" ultra-large touch-screen makes the operation interface quite friendly.

5. Two kinds of standard observer angles, multiple light sources, multiple color spaces and multiple color difference formulas, fit for all kinds of color measurement requests.

6. Repeatibility ΔE*ab within 0.04, inter-instrument ΔE*ab less than 0.2, super stable and reliable performance.

7. Large capacity storage, more than 15000 data.

8. PC software with powerful extension functions.

9. High hardware configuration with a number of innovative technologies.

ZL808 Spectrophotometer Specification	
Product Model	ZL808
Illuminating/Viewing Method	45°/0 (45° ring illuminating, 0° viewing) Conform to standard CIE No. 15, GB/T3978, GB2893, GB/T18833
Integrating Sphere Size	Φ58mm
Measuring Aperture	Φ8mm

Observer	2°/10°
Repetitive Error	Spectral Reflectance: standard deviation within 0.1%(400~700nm: within 0.2%) Colorimetric Value: standard deviation ΔE*ab≤0.04 (Measurement Conditions: white calibration plate measured 30 times at 5 seconds intervals after white calibration performed.)
Inter-Instrument Error	ΔE*ab≤0.2 (Average value of measuring the 12 tint plates of BCRA series II)
Wavelength Range	400∽700nm
Wavelength Pitch	10nm
Reflectance Range	0∽200%
Light Source Type	D65, D50, A, C, D55, D75, F2, F6, F7, F8, F10, F11, F12
Light Source Device	Combined LED Light
Light Source Life	5 years, more than 1.6 million measurements
Sensor	Silicon Photoelectric Diode Array
Color Space	CIE LAB, XYZ, Yxy, LCh, CIE LUV
Color Difference Formula	ΔE*ab, ΔE*uv, ΔE*94, ΔE*cmc(2:1), ΔE*cmc(1:1), ΔE*00
Display Data	Spectral Graph/Data, Sample Chromatic Value, Color Difference Value/Graph, PASS/FAIL Result, Color Offset, Color Simulation
Other Chromaticity Data	WI(ASTM E313, CIE/ISO, AATCC, Hunter), YI(ASTM D1925, ASTM 313), TI(ASTM E313, CIE/ISO), Metamerism Index (Mt), Color Strength, Color Stain, Color Fastness
Measuring Time	1.5s
Data Storage	1000 standards, 10000 samples
Data Port	USD&RS232

Dimension	90*77*230mm
Weight	600g
Battery	Li-ion Battery, 5000 measurements in 8 hours.
Operation Temperature	0∽40℃(32∽104℉)
Storage Temperature	-20∽50℃(-4∽122℉)
Standard Accessory	Power Adapter, Li-ion Battery, Operating Instruction, CD-ROM (containing management software), Data Line, White and Black Calibration Cavity, Protective Cover and Wrist Strap.
Optional Accessory	Universal Test Components, Micro Printer, Powder Test Box