

ZL800 - Spectrophotometer

features with stable performance, precise measurement and powerful functions in the leading position of the same industry.



Applications:

ZL800 spectrophotometer is widely used in plastic, electronic, paint, ink, textile, garment, printing and dyeing, food, medical cosmetic industries, scientific research institutes, schools & laboratories. It can measure reflectance spectrum and other color index precisely. ZL800 spectrophotometer not only can help to perform color matching and color management studies, but also can control product quality management accurately. The instrument is equipped with high-end color management software which can connect PC to achieve more extension functions.

Features:

- Aesthetic design perfectly combined with ergonomics structure.
- 45°/0° geometrical optics structure, comply with CIE, ISO, ASTM, DIN standard.
- 3.5 inch large capacitive touch screen.
- Two standard observer perspectives, multiple light sources modes, a variety of color systems.
- The repeatability E^*ab is within 0.04, the errors between each instrument is less than $0.2E^*ab$.
- Large capacity storage, save more than 10000 data.
- PC software with powerful extension functions.
- High hardware configured with a number of innovative technologies.
- Oversized integrating sphere, more effective homogenization ray of lights and precise measurement.
- 15° oblique angle screen, in line with the human eye observation.

Model	ZL800
Complete spectrum reflectance curve Input L, a, b value manually	
Display Screen	TFT 3.5inch Capacitive Touch Screen
Illumination/ observation system	45°/0°
Integrating sphere Size	Φ58mm
Light Source	combined LED sources
Sensor	Silicon photodiode array
Wavelength Range	400-700nm
Wavelength interval	10nm
Reflectance range	0 ~ 100%
Color Space	CIE LAB, XYZ, Yxy, LCh, CIE LUV
Color difference Formula	ΔE^*ab , ΔE^*uv , ΔE^*94 , $\Delta E^*cmc(2:1)$, $\Delta E^*cmc(1:1)$, ΔE^*OO
Other Chromaticity Data	WI(ASTM E313, CIE/ISO, AATCC, Hunter), YI(ASTM D1925, ASTM 313), TI(ASTM E313, CIE/ISO), Metamerism Index (Mt), Color Stain, Color Fastness
Illuminant	D65, A, C, D50, D55, D75, F2, F6, F7, F8, F10, F11, F12
Measuring Aperture	Φ8mm
Observer	2°/10°
Display Data	Spectral Value/Graph, Colorimetric Value, Color Difference Value/Graph, PASS/FAIL Result, Color Offset, Color Simulation
Repeatability	Spectral Reflectance: standard deviation within 0.1% (400-700nm: within 0.2%), Colorimetric value Standard deviation within Delta E^*ab 0.04
Errors between each instrument	Within Delta E^*ab 0.2
Dimension (LxWxH)	90x77x230mm
Battery	Li-ion battery, 5000 times within 8 hours
Lamp Life	5 years, more than 1.6 million measurements
Storage	1000 Standards, 10000 Samples
Optional Accessory	Universal test components for liquid, power, particle, Micro Printer, Powder Test Box

