



NS800 Spectrophotometer

Product Features

- 1. Aesthetic design perfectly combined with ergonomics structure.
- 2. 45/0 geometrical optics structure, comply with CIE, ISO, ASTM, DIN standard.
- 3. 3.5 inch large capacitive touch screen.
- 4. Two standard observer perspectives, multiple light sources modes, a variety of color systems.
- 5. The repeatability ΔE^* ab is within 0.04, the errors between each instrument ΔE^* ab is less than 0.2.
- 6. Large capacity storage, can save more than 10000 data.
- 7. PC software with powerful extension functions.
- 8. High hardware configuration with a number of innovative technologies.
- 9. Oversized integrating sphere, more effective homogenization ray of lights and precise measurement.
- 10. 15° oblique angle screen, more in line with the human eye observation.

Application Industry

NS800 spectrophotometer is widely used in plastic, electronic, paint, ink, textile, garment, printing and dyeing, food, medical, cosmetic, industries, scientific research institutes, schools and laboratories. It can measure reflectance spectrum and other color index precisely. NS800 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.

NS800 Spectrophotometer Specifications

Model	NS800
Illumination/observation	45/0 method (45 ring-shaped illumination, vertical viewing), Comply
system	with CIE No.15, GB/T 3978
Integrating sphere Size	Ф58тт
Light Source	combined LED sources
Sensor	Silicon photodiode array
Wavelength range	400~700nm
Wavelength interval	10nm
Reflectance range	0~200%
Measuring Aperture	Ф8mm
Color Space	CIE LAB,XYZ,Yxy,LCh,CIE LUV
Color difference	Δ E*ab, Δ E*uv, Δ E*94, Δ E*cmc(2:1), Δ E*cmc(1:1), Δ E*00
Formula	
Other Chromaticity	WI(ASTM E313, CIE/ISO, AATCC, Hunter), YI(ASTM D1925,
Data	ASTM 313), Metamerism Index (Mt), Color Stain, Color Fastness
Observer	2°/10°
Illuminant	D65, A,C,D50, D55, D75, F2, F6, F7, F8, F10, F11,F12
Display Data	Spectral Value/Graph, Colorimetric Value, Color Difference
	Value/Graph, PASS/FAIL Result, Color Offset, Color Simulation
Measurement Time	1.5s
Repeatability	Spectral Reflectance: standard deviation within 0.1%(400~700nm:
	within 0.2%)
Colorimetric Value	Standard deviation within Delta E*ab 0.04 (Measurement conditions:
	white calibration plate measured 30 times at 5 seconds intervals after
	white calibration was performed.)
	Within Delta E*ab 0.2 (Average for 12 BCRA Series II color tiles)
Agreement	
Dimension	L*W*H=90*77*230mm
Weight	600g
Battery	Li-ion battery. 5000 times within 8 hours
Lamp Life	5 years, more than 1.6 million measurements
Display Screen	TFT 3.5inch, Capacitive Touch Screen
Interface	USB/RS-232
Data Memory	1000 Standards, 15000 Samples

Operating Temperature	0~40°C(32~104°F)
Storage temperature	-20~50°C(-4~122°F)
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	Micro Printer, Universal Test Compon
Others	Provide complete spectrum reflectance curve, Input L, a, b value
	manually
Notes	The specifications are subject to change without notice