

NS800 Spectrophotometer



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

SPECTROPHOTOMETER

INCOMPARABLE ACCURACY

Milestone

SCM ISO9001



Shenzhen ThreeNH Technology Co., Ltd.

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 is less than $0.2\Delta E^*ab$.
6. Large capacity storage, save more than 10000 data.
7. PC software with powerful extension functions.
8. High hardware configured with a number of innovative technologies.
9. Oversized integrating sphere, more effective homogenization ray of lights and precise measurement.
10. 15° oblique angle screen, 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.



SPECIFICATION PARAMETER

Features: Complete spectrum reflectance curve, Input L, a, b value manually

Display Screen: TFT 3.5inch Capacitive Touch Screen

Illumination/observation system: 45°/0°

Standanr: CIE NO.15, GB/T 3978

Integrating sphere Size: $\Phi 58\text{mm}$

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, HunterLAB

Color difference Formula: ΔE^*ab , ΔE^*uv , ΔE^*94 , $\Delta E^*cmc(2:1)$, $\Delta E^*cmc(1:1)$, ΔE^*00 , $\Delta E(h)$

Other Chromaticity Data: WI(E313, CIE/ISO, AATCC, Hunter), YI(D1925, E313), TI(E313, CIE/ISO), Metamerism Index (Mt), Colour Stain, Color Fastness, Color Strength, Opacity

Illuminant: D65, A, C, D50, D55, D75, F2, F6, F7, F8, F10, F11, F12

Measuring Aperture: $\Phi 8\text{mm}$

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 ΔE^*ab 0.04

Errors between each instrument: Within ΔE^*ab 0.2

Dimension: (L*W*H) 90*77*230mm

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, powder, particle, Micro Printer, Powder Test Box



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