



## Spectrophotometer NS800

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

# SPECTROPHOTOMETER INCOMPARABLE ACCURACY

Milestone

SCM ISO9001



**Color So Different in Measurement**

SHENZHEN 3NH 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  $\Delta E^*ab$  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

**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:**  $\Phi 58\text{mm}$

**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

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

**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:**  $\Phi 8\text{mm}$

**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  $\Delta E^*ab$  0.04

**Errors between each instrument:** Within  $\Delta E^*ab$  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, power, particle, Micro Printer, Powder Test Box

**3nh**<sup>®</sup>  
Focus on Color

## SHENZHEN 3NH TECHNOLOGY CO., LTD.

Address: 4/F, Building 8, Nangang Second Industry Zone, Xili Nanshan District, Shenzhen, China.

Service Hotline: 400-033-2311

Email: maggie@3nh.com

Tel: 86-0755-27198826~658

Fax: 86-0755-26078633