



## YOUR CHIEF COLOR EXPERTS

SPECTROPHOTOMETER  
NS810/NS800

NS800 series spectrophotometer is developed by 3nh with numbers of innovative technology and many patents. NS800 series has high configuration and powerful functions in the leading position of the same industry.

### SPECTROPHOTOMETER NS810

D/8 structure(diffuse illumination,8° viewing )

### SPECTROPHOTOMETER NS800

45/0 method (45 ring-shaped illumination,vertical viewing)



15 Degree screen to display upside-down and up



Large Storage Space with High hardware configuration



3.5 inch large capacitive touch screen, fully functional touch control.



58mm large integrating sphere, more accurate measurement

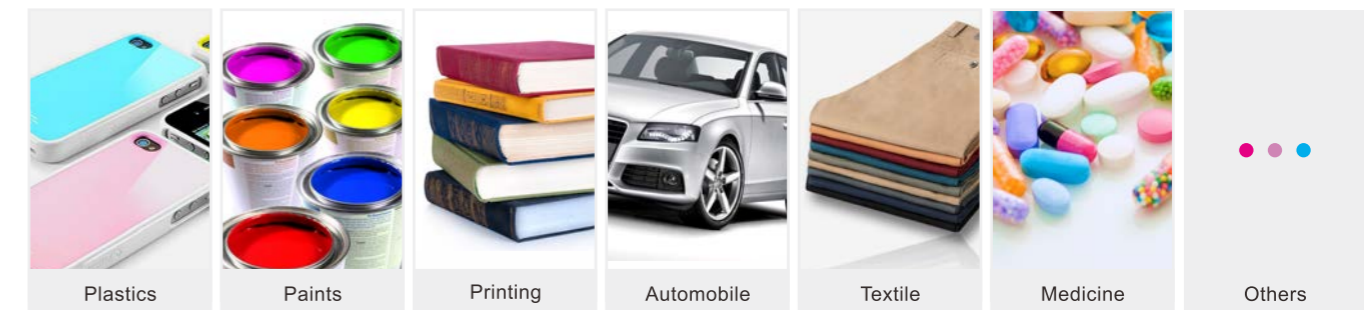
## PRODUCT FEATURES

1. Display complete reflectance rate and input LAB value manually.
2. NS810:D/8 structure (diffuse illumination, 8° viewing )  
NS800:45/0 method (45 ring-shaped illumination, vertical viewing)
3. 3.5 inch large capacitive touch screen, fully functional touch control.
4. 2°/10° degree observe, multiple lights, many color systems.
5. The repeatability  $\Delta E^*ab$  is within 0.04, errors is less than 0.2
6. Large capacity storage, more than 15000 data.
7. PC software with powerful extension functions.
8. 15° oblique angle screen, in line with the human eye observation.
9. Oversized integrating sphere, more effective homogenization ray of lights.
10. High hardware configuration with a number of innovative technologies.



## APPLICATION INDUSTRY

NS810/NS800 spectrophotometer is widely used in plastic, electronic, paint, ink, textile, garment, printing and dyeing, foodmedical cosmetic industries, scientific research institutes, schools and laboratories. It can measure reflectance spectrum and other color index precisely. NS810/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

### SPECTROPHOTOMETER NS810

**Illumination/Observation System:** D/8 structure  
**Wavelength Range:** 400~700nm  
**Wavelength Interval:** 10nm  
**Reflectance Range:** 0~200%  
**Color Space:** CIE LAB,XYZ,Yxy,LCh,CIE LUV  
**Color Difference Formula:**  $\Delta E^*ab, \Delta E^*uv, \Delta E^*94, \Delta E^*cmc(2:1)$   
 $\Delta E^*cmc(1:1), \Delta E^*cmc(l:c), CIE2000 \Delta E^*00, \Delta E^*(h)$   
**Chromaticity Data:** WI(ASTM E313, CIE/ISO, AATCC, Hunter)  
 YI(ASTM D1925, ASTM 313), Metamerism Index (Mt), color strength  
 Color Stain, Color Fastness, Opacity  
**Illuminant:** D65, A, C, D50, D55, D75, F1, F2, F3, F4, F5F6, F7, F8, F9  
 F10, F11, F12  
**Measuring Aperture:**  $\Phi 8mm$   
**Observer:** 2°/10°  
**Repeatability:** within Delta  $E^*ab$  0.04  
**Errors between Each instrument:** Within Delta  $E^*ab$  0.2  
**Storage:** 1000 Standards, 15000 Samples  
**Optional Accessory:** Universal Test Components for liquid, powder particle, Micro Printer, Powder Test Box

### SPECTROPHOTOMETER NS800

**Illumination/Observation System:** 45°/0° structure  
**Wavelength Range:** 400~700nm  
**Wavelength Interval:** 10nm  
**Reflectance Range:** 0~200%  
**Color Space:** CIE LAB, XYZ, Yxy, LCh, CIE LUV  
**Color Difference Formula:**  $\Delta E^*ab, \Delta E^*uv, \Delta E^*94, \Delta E^*cmc(2:1)$   
 $\Delta E^*cmc(1:1), \Delta E^*00$   
**Chromaticity Data:** WI(ASTM E313, CIE/ISO, AATCC, Hunter)  
 YI(ASTM D1925, ASTM 313), TI(ASTM E313, CIE/ISO), Opacity  
 Metamerism Index (Mt), Color strength, Color Stain, Color Fastness  
**Illuminant:** D65, A, C, D50, D55, D75, F2, F6, F7, F8, F10, F11, F12  
**Measuring Aperture:**  $\Phi 8mm$   
**Observer:** 2°/10°  
**Repeatability:** within Delta  $E^*ab$  0.04  
**Errors between Each instrument:** Within Delta  $E^*ab$  0.2  
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