

# YOUR CHIEF COLOR EXPERTS



## SPECTROPHOTOMETER NS810

NS810 is high-end spectrophotometer mainly developed by 3nh company. With D/8 structure(diffuse illumination, 8°degree viewing), it has precise measurement, stable performance, power functions, high configuration. It's one of the best spectrophotometers.



D/8 structure



Ergonomic design



Touch screen



More accuracy

## PRODUCT FEATURES

1. Provide complete reflectance rate and input LAB value manually
2. NS810:D/8 structure(diffuse illumination, 8° 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 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. NS810 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

**Illumination/observation system:** d/8 structure

**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:** 0~200%

**Measurement of time:** 1.5S

**Color Space:** CIE LAB,XYZ,Yxy,LCh,CIE LUV

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

$\Delta E^*cmc(1:1), \Delta E^*cmc(l:c), CIE2000 \Delta E^*00, \Delta E^*(h)$

**Other Chromaticity Data:** WI(ASTM E313,CIE/ISO,AATCC,Hunter)

YI(ASTM D1925,ASTM 313),Metamerism Index (Mt), color strength

Color Stain,Color Fastness

**illuminant:** D65,A,C,D50,D55,D75,F1,F2,F3,F4,F5F6,F7,F8,F9  
F10,F11,F12

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

**Observer:** 2°/10°

**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

**Display Screen:** TFT 3.5inch Capacitive Touch Screen

**Battery:** Li-ion battery, 5000 times within 8 hours.

**Lamp Life:** 5 years, more than 1.6 million measurements

**Storage:** 1000 Standards, 15000 Samples

**Optional Accessory:** Miniature Printer, Universal Test Components, Powder Test Box