

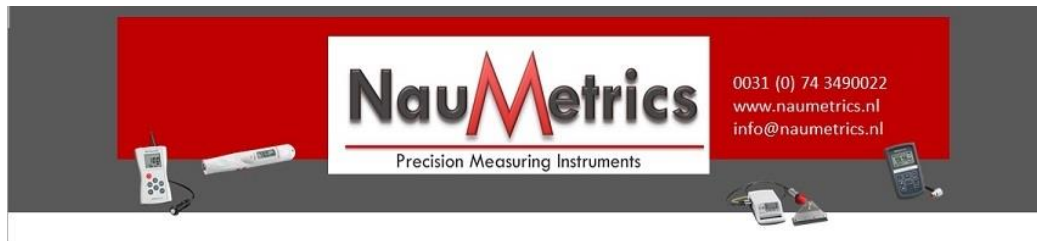
## NS800 Spectrophotometer



NS800 spectrophotometer is developed by with independent intellectual property rights. It features with stable performance, precise measurement and powerful functions in the leading position of the same industry.

### 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 0.08, the errors between each instrument  $\Delta E^*_{ab}$  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.

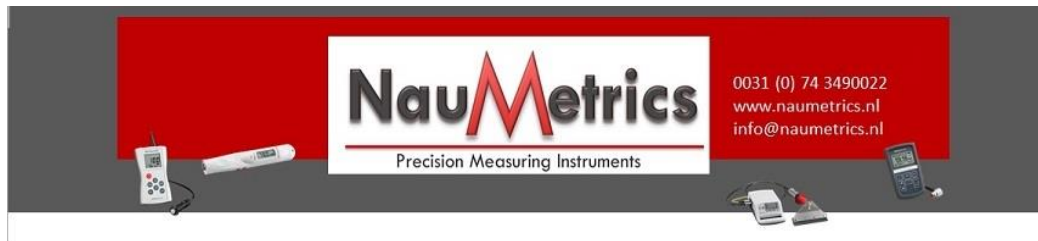


## Applications

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

<b>Model</b>	NS800
<b>Illumination/observation system</b>	45/0 method (45 ring-shaped illumination, vertical viewing) Comply with CIE No.15, GB/T 3978.
<b>Integrating sphere Size</b>	Φ58mm
<b>Light Source</b>	combined LED sources
<b>Sensor</b>	Silicon photodiodearray
<b>Wavelength range</b>	400~700nm
<b>Wavelength pitch</b>	10nm
<b>Reflectance range</b>	0~100%
<b>Measuring Aperture</b>	Φ8mm
<b>Color Space</b>	CIE LAB,XYZ,Yxy,LCh,CIE LUV
<b>Color difference Formula</b>	$\Delta E^*_{ab}, \Delta E^*_{uv}, \Delta E^*_{94}, \Delta E^*_{cmc(2:1)}, \Delta E^*_{cmc(1:1)}, \Delta E^*_{00}$ v
<b>Other Chromaticity Data</b>	WI(ASTM E313, CIE/ISO,AATCC,Hunter), YI(ASTM D1925, ASTM 313), TI(ASTM E313, CIE/ISO), Metamerism Index (Mt) Colour Stain, Color Fastness
<b>Observer</b>	2°/10°
<b>Illuminant</b>	D65, A,C,D50, D55, D75, F2, F6, F7, F8, F10, F11,F12
<b>Display Data</b>	Spectral Value/Graph, Colorimetric Value, Color Difference Value/Graph, PASS/FAIL Result, Color Offset, Color Simulation
<b>Measurement Time</b>	1.5s



<b>Repeatability</b>	Spectral Reflectance: standard deviation within 0.1%(400~700nm: within 0.2%) Colorimetric Value: Standard deviation within DeltaE*ab 0.08 (Measurement conditions: white calibration plate measured 30 times at 5 seconds intervals after white calibration was performed.)
<b>Inter Instrument Agreement</b>	Within DeltaE*ab 0.2 (Average for 12 BCRA Series II color tiles)
<b>Dimension</b>	L*W*H=90*77*230mm
<b>Weight</b>	600g
<b>Battery</b>	Li-ion battery. 5000 times within 8 hours.
<b>Lamp Life</b>	5 years, more than 1.6 million measurements
<b>Display Screen</b>	TFT 3.5inch, Capacitive Touch Screen
<b>Interface</b>	USB/RS-232
<b>Data Memory</b>	1000 Standards, 10000 Samples
<b>Operating Temperature</b>	0~40°C (32~104°F)
<b>Storage temperature</b>	-20~50°C (-4~122°F)
<b>Standard Accessory</b>	Power Adapter, Li-ion Battery, Operating Instruction, CD-ROM (containing management software), Data Line, White and Black Calibration Cavity, Protective Cover and Wrist Strap
<b>Optional Accessory</b>	Micro Printer, Powder Test Box
<b>Notes</b>	The specifications are subject to change without notice.