

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.

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 ΔE^*_{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.



15 Degree screen to display upside-down and up



Large Storage Space with High hardware configuration



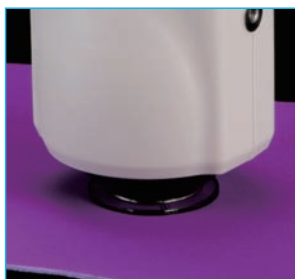
3.5 inch large capacitive touch screen, fully functional touch control.



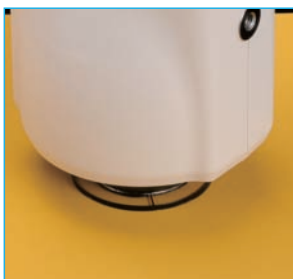
58mm large integrating sphere, more accurate measurement

HANDHELD SPECTROPHOTOMETER

PRODUCT FEATURE



Leather Samples



Plastic Samples



Masterbatch Samples



Liquid Samples

D/8 structure(diffuse illumination, 8°viewing), can meet the standard of CIE No.15, GB/T 3978.

Long life combined LED light sources, multiple color space, multiple color difference formula.

Can be connected with SQC8 or SQCT software, accurate measuring, but can not measure samples with fluorescent material.

Repeatability: within Delta E*ab 0.04

Measuring Aperture: 8mm

Powerful Function: PC software with powerful extended function

PRODUCT DISPLAY



CORE TECHNOLOGY

Application: can be widely used for color analysis in the field of electronics plastics and resin, car painting, textile, leather etc.

D/8 structure, can meet the need of CIE, ISO, ASTM, DIN etc., professional guarantee!

Super capacity: can store over 10000 data.

Easy Operation: aesthetic design combination with ergonomics structure.

SPECIFICATION PARAMETER

Model	NS800	NS810	NS820	NS808 (Traffic Sign Measurement)
Optical Geometry	45°/0° (45°ring-shaped illumination, vertical viewing)	D/8°	D/8°	45°/0°
Standards compliant	CIE No.15, GB/T 3978.	Diffuse illumination, 8°viewing	Diffuse illumination, 8°viewing	CIE No.15, GB/T 3978, GB2893,GB/T 18833
Integrating Sphere Size	Φ58mm			
Light Source Device	Combined LED light sources			
Sensor	Silicon Photodiode			
Light wave range	400~700nm			
Wavelength Pitch	10nm			
Reflectance Range	0~100%			0~200%
Measuring Aperture	Φ8mm	Φ8mm	Φ4mm	Φ8mm
Color Space	CIE LAB,XYZ,Yxy,LCh,CIE LUV,HunterLAB	CIE LAB,XYZ,Yxy,LCh,CIE LUV		
Color Difference Formula	ΔE*ab,ΔE*94,ΔE*cmc(2:1), ΔE*cmc(1:1),ΔE*00, ΔE(h) , ΔE*cmc(l:C)	ΔE*ab,ΔE*94,ΔE*cmc(2:1),ΔE*cmc(1:1),ΔE*00, ΔE*cmc(l:C)		
Other Colorimetric Data	WI(ASTM E313, CIE/ISO,AATCC,Hunter), YI(ASTM D1925, ASTM 313), TI(ASTM E313, CIE/ISO), Metamerism Index(MI), Color Strength, Color Stain, Color Fastness,Opacity			Increase coverage
Observer	2°/10°			
Illuminant	D65,A,C,D50,D55,D75,F2,F6,F7,F8,F10,F 11,F12			increase F1,F3,F4,F5,F9
Displayed Data	spectrum chart/ spectrum data, Sample chromatic value, color difference data/chart, pass/fail, color deviation, color simulation			No color simulation
Measurement Time	1.5s			
Repeatability	Spectral reflectivity: error will be less than 0.1%(400-700nm, less than 0.2%) Chromatic value: delta e*ab will be less than 0.04(after preheating, average value for 30 times measuring the white calibration board within 5 seconds interval)			
Inter-instrument agreement	ΔE*ab less than 0.2(average value for measuring BCRI series II 12pcs palettes)			
Size	L*W*H= 90*77*230(mm)			
Weight	about 600g			
Battery Performance	Li-ion Battery : 5000 times within 8 hours			
Lamp Life	5 years, more than 1.6 million measurements			
Display	3.5-inch TFT color LCD, Capacitive Touch Screen			
Interface	USB			
Data Storage	Standard: 1000, Sample: 10000			
Operating Environment	0~40°C (32~104°F)			
Storage Environment	-20~50°C (-4~122°F)			
Standard Accessories	Powder Adapter, Li-ion Battery, User manual, QC software (please download it on our website), USB Line, White and Black Calibration Cavity, Wristband, dust cover			
Optional Accessories	Universal Test Component, Micro Printer, Powder Test Box,Multifunctional test component			