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INSTRUMENTOS DE MEDICIÓN INDUSTRIAL

Ficha Técnica

Espectrofotómetro NS810,

Geometría de visualización: D/8

Apertura de medición 8 mm, 3NH

3N-NS810

Portable Spectrophotometer d/8 NS810

NS810 portable spectrophotometer uses d/8 structure and comply with CIE No.15, GB/T 3978. With 400~700nm, NS810 features with high accuracy DeltaE*ab 0.04, and 8mm aperture makes measurement so easy. It can save 1000 Standards, 15000 Samples.

3nh popular NS810 portable spectrophotometer uses d/8 structure and comply with CIE No.15, GB/T 3978. With 400~700nm, NS810 features with high accuracy DeltaE*ab 0.04, and 8mm aperture makes measurement so easy. It can save 1000 Standards, 15000 Samples and you also can input your own LAB or XYZ value into the instrument. With SQC8 software, you can do better color control management. Plus, it is widely used in plastic, electronic, paint, ink, textile, garment, printing and dyeing, food, medical, cosmetic, industries, scientific research institutes, schools and laboratories.

NS810 Portable Spectrophotometer Product Features:

1. Display 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 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.

Portable Spectrophotometer Specification

Model	NS810 Spectrophotometer
Illumination/observation system	d/8 (diffused illumination, 8-degree viewing angle) Conforms to CIE No.15, GB/T 3978.
Integrating sphere Size	Φ58mm
Light Source	Combined LED sources
Sensor	Silicon photodiode array
Wavelength range	400~700nm
Wavelength pitch	10nm
Reflectance range	0~200%
Measuring Aperture	Φ8mm
Color Space	CIE LAB, XYZ, Yxy, LCh, CIE LUV,LAB&WI&YI
Color difference Formula	ΔE*ab,ΔE*uv,ΔE*94,ΔE*cmc(2:1),ΔE*cmc(1:1),ΔE*cmc(l:c),CIE2000ΔE*00,ΔE(h)
Other Chromaticity Data	Whiteness - WI(ASTM E313, CIE/ISO,AATCC,Hunter), Yellowness-YI(ASTM D1925, ASTM 313), TI(ASTM E313, CIE/ISO), Metamerism Index (Mt) Colour Stain, Color Fastness, Color Strength, Opacity
Observer	2°/10°
Illuminant	D65,D50,A,C,D55,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12
Display Data	Spectral Value/Graph, Colorimetric Value, Color Difference Value/Graph, PASS/FAIL Result, Color Offset, Color Simulation, color index setting(ΔE*94, ΔE*cmc, ΔE2000), tolerance prompt, reverse prompt, time setting, language setting, restore factory setting
Measurement Time	1.5s
Repeatability	Spectral Reflectance: standard deviation within 0.1%(400~700nm: within 0.2%) Colorimetric Value: Standard deviation within DeltaE*ab 0.04 (Measurement conditions: white calibration plate measured 30 times at 5 seconds intervals after white calibration was performed.)
Inter Instrument Agreement	Within DeltaE*ab 0.2 (Average for 12 BCRA Series II color tiles)
Dimension	L*W*H=90*77*230mm
Weight	600g
Battery	Li-ion battery. 2800 times within 8 hours.
Lamp Life	5 years, more than 1.6 million measurements
Display Screen	TFT 3.5inch, Capacitive Touch Screen
Interface	USB/RS-232
Data Memory	1000 Standards, 15000 Samples
Operating Temperature	0~40°C(32~104°F)
Storage temperature	-20~50°C(-4~122°F)
Standard Accessory	Power Adapter, Li-ion Battery, Operating Instruction, CD-ROM (containing management software), Data Line, White and Black Calibration Cavity, Protective Cover and Wrist Strap
Optional Accessory	Universal Test Components, Micro Printer, Powder Test Box
Notes	The specifications are subject to change without notice.

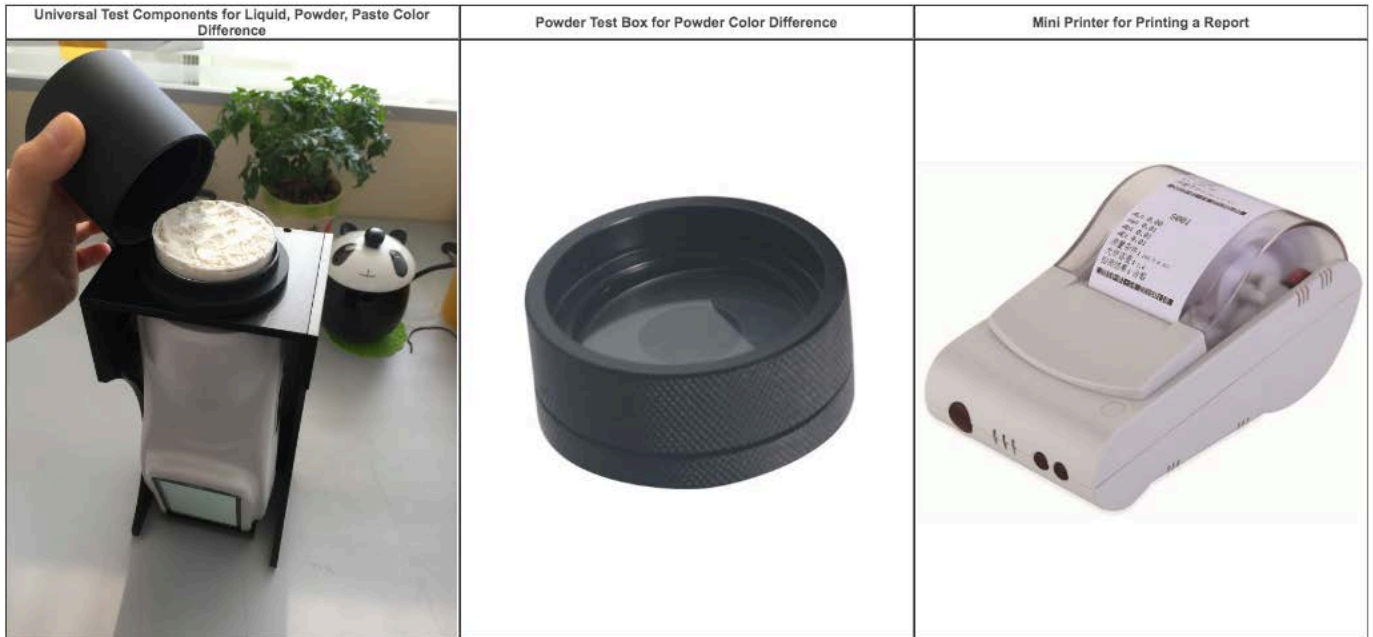| Plastics | Paints | Printing | Automobile | Textile | Medicine | Others |

Applications:

3nh colorimeter 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 portable spectrophotometer not only can help to perform color matching and color management studies, but also can control product quality management. 3nh colorimeter is equipped with high-end color management software that can connect to PC to achieve more extension functions.

Optional Accessory:

| Universal Test Components for Liquid, Powder, Paste Color Difference | Powder Test Box for Powder Color Difference | Mini Printer for Printing a Report |

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