Spectrophotometer
NS800

Standard Measurement

T008 D65/10 45/0 Φ8 04:01 2014.04020

No Name

Reflectance Curve

Wavelength
500
Reflectance
50.78

Sample Measure   Up   Del   Menu

3nh

features with stable performance，precise measurement and powerful functions in the leading position of the same industry.

SPECTROPHOTOMETER

INCOMPARABLE ACCURACY

Milestone

SCM   **ISO9001**   CE   RoHS

Color So Different in Measurement

PRODUCT 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 ΔE*ab is within 0.04, the errors between each instrument is less than 0.2ΔE* ab.
6. Large capacity storage, save more than 10000 data.
7. PC software with powerful extension functions.
8. High hardware configured with a number of innovative technologies.
9. Oversized integrating sphere, more effective homogenization ray of lights and precise measurement.
10. 15° oblique angle screen, in line with the human eye observation.

APPLICATION INDUSTRY

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.

Plastics	Paints	Printing	Automobile	Textile	Medicine	Others

SPECIFICATION PARAMETER

Complete spectrum reflectance curve
Input L, a, b value manually
Display Screen: TFT 3.5inch Capacitive Touch Screen
Illumination/observation system: 45°/0°
Integrating sphere Size: Φ58mm
Light Source: combined LED sources
Sensor: silicon photodiode array
Wavelength range: 400~700nm
Wavelength interval: 10nm
Reflectance range: 0~100%
Color Space: CIE LAB, XYZ, Yxy, LCh, CIE LUV
Color difference Formula: ΔE*ab, ΔE*uv, ΔE*94, ΔE*cmc(2:1), ΔE*cmc(1:1), ΔE*00
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

Illuminant: D65, A, C, D50, D55, D75, F2, F6, F7, F8, F10, F11, F12
Measuring Aperture: Φ8mm
Observer: 2°/10°
Display Data: Spectral Value/Graph, Colorimetric Value, Color Difference Value/Graph, PASS/FAIL Result, Color Offset, Color Simulation
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
Dimension: (L*W*H) 90*77*230mm
Battery: Li-ion battery, 5000 times within 8 hours.
Lamp Life: 5 years, more than 1.6 million measurements
Storage: 1000 Standards, 10000 Samples
Optional Accessory: Universal test components for liquid, powder, particle, Micro Printer, Powder Test Box

3nh®
Focus on Color