

YOUR CHIEF COLOR EXPERTS



PRODUCT FEATURES

- 1. Specially designed to measure traffic signs.
- 2. Elegant appearance combines ergonomic design.
- 3. 45°/0 geometry optical structure, conform to standard CIE, ISO, ASTM and DIN, incomparable accuracy.
- 4. 3.5" ultra-large touch-screen makes the operation interface guite friendly.
- 5. Two kinds of standard observer angles, multiple light sources, multiple color spaces and multiple color difference formulas, fit for all kinds of color measurement requests.
- 6. Repeatibility ΔE^* ab within 0.04, inter-instrument ΔE^* ab less than 0.2, super stable and reliable performance.
- 7. Large capacity storage, more than 15000 data.
- 8. PC SQCT software with powerful extension functions.
- 9. High hardware configuration with a number of innovative technologies.



APPLICATION INDUSTRY

NS808 Yxy Spectrophotometer is special designed for the color measurement of traffic signs. It can be easily used to measure the brightness factor and chromaticity coordinate of all kinds of traffic signal reflection film. At the same time, NS808 portable spectrophotometer is also widely used in plastics, electronics, paintings, inks, testiles, garments, dyeing, printing, paper, automobiles, medical, cosmetics and food, etc, and other industries. It is also used in some scientific research institutes and laboratories.















SPECIFICATION PARAMETER

Illuminating/Viewing Method: "45°/0 (45° ring illuminating, 0° viewing) Comply to standard CIE No. 15, GB/T3978, GB2893, GB/T18833"

Integrating sphere Size: Φ58mm

Measuring Aperture: Φ8mm

Observer: 2°/10°

Repetitive Error: "Spectral Reflectance: standard deviation within 0.1% ($400 \sim 700$ nm: within 0.2%)

Colorimetric Value: standard deviation ∆E*ab≤0.04 (Measurement

Conditions: white calibration plate measured 30 times at 5 secondsintervals after white

calibration performed \"

Inter-Instrument Error: ΔE*ab≤0.2 (Average value of measuring the 12 tint plates of BCRA series II)

Wavelength Range: 400 ∽ 700nm
Wavelength Pitch: 10nm
Reflectance Range: 0 ∽ 200%

Light Source Type: D65, D50, A, C, D55, D75, F2, F6, F7, F8, F10, F11, F12

Light Source Device: Combined LED Light

Battery: Li-ion Battery, 5000 measurements in 8 hours

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

Light Source Life: 5 years, more than 1.6 million measurements

Sensor: Silicon Photoelectric Diode Array
Color Space: CIE LAB, XYZ, Yxy, LCh, CIE LUV

Color Difference Formula: ΔE^*ab , ΔE^*uv , ΔE^*94 , $\Delta E^*cmc(2:1)$, $\Delta E^*cmc(1:1)$, ΔE^*00

Display Datat: "Spectral Graph/Data, Sample Chromatic Value, Color Difference Value/Graph, PASS/FAIL Result, Color Offset,

Color Simulation"

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"

Measuring Time: 1.5S

Data Storage: 1000 standards, 15000 samples

Data Port: USD&RS232

Dimension: 90*77*230mm

weight: 600g

Operation Temperature: 0 ≤ 40 °C (32 ≤ 104 °F)

Storage Temperature: -20 ≤ 50 °C (-4 ≤ 122 °F)

Optional Accessory: Universal Test Components, Micro Printer,

Powder Test Box



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