

# YOUR CHIEF COLOR EXPERTS



### PRODUCT FEATURES -----

- 1. Elegant appearance combines ergonomic design.
- 2. D /  $8^\circ$  (diffuse uniform illumination  $8^\circ$  reception) in accordance with standard CIE No. 15, GB / T 3978  $8^\circ$ .
- 3. 3.5" ultra-large touch-screen makes the operation interface guite friendly.
- 4. 15° oblique angle screen, in line with the human eye observation.
- 5. Oversized integrating sphere, more effective homogenization ray of lights.
- 6.Two kind of standard observer angles, multiple light source, color spaces and color diffenence fomulas, which is fit for all kinds of color measurement requests.
- 7.Repeatibility  $\Delta E^*$  ab within 0.04, inter-instrument  $\Delta E^*$  ab within 0.2, super stable and reliable performance.
- 8. Large capacity storage, more than 15000 data.
- 9. PC software with powerful extension functions.
- 10. High hardware configuration with a number of innovative technologies.

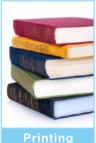


#### APPLICATION INDUSTRY

NS820 is widely used in plastic, electronic, paint, ink, textile, garment, printing and dyeing, food, medical, cosmetic, industries, scientific research institutes, schools and laboratories etc.















## **SPECIFICATION PARAMETER**

Illumination/observation system: d/8 (diffused illumination, 8-degree viewing angle) Conforms to CIE No.15, GB/T 3978

Integrating sphere Size: Ф58mm

Light Source: Combined LED sources

Sensor: Silicon photodiode array

Color Space: CIE LAB, XYZ, Yxy, LCh, CIE LUV, LAB&WI&YI

 $\textbf{Color difference Formula:} \Delta E^*ab, \Delta E^*uv, \Delta E^*94, \Delta E^*cmc(2:1), \Delta E^*cmc(1:1), \Delta E^*cmc(1:c), CIE2000\Delta E^*00, \Delta E(h)$ 

Wavelength range:400~700nm

Wavelength pitch:10nm

Reflectance range:0~200%

Measuring Aperture:Φ4mm

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(ΔΕ\*94, ΔΕ\*cmc, ΔΕ2000), tolerance prompt, reverse prompt, time setting, language setting, restore factory setting

Measurement Time: 1.5s

**Dimension**:L\*W\*H=90\*77\*230mm

Inter Instrument Agreement: Within Delta E\*ab 0.2 (Average for 12 BCRA Series II color tiles)

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)

Weight:600g

Battery:Li-ion battery. 2800 times within 8 hours.

Lamp Life:5 years, more than 1.6 million measurements

Display Screen: TFT 3.5 inch, 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, SQC8 software, White and Black Calibration Cavity, Protective Cover and Wrist Strap

Optional Accessory: Universal Test Components, Micro Printer,

Powder Test Box



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