

COLOR MANAGEMENT

Color Measurement
Is So Easy



PRECISION COLORIMETER NR60CP

NR60CP precision colorimeter has the advantages of high accuracy, powerful function and precise measurement which are warmly welcomed by customers.

PRODUCT FEATURES

1. Switchable 8mm and 4mm measuring apertures, easy to measure concave surface.
2. Higher measurement stability and accuracy, $\Delta E_{ab} < 0.03$.
3. More color spaces, various color indexes, extensive applicability.
4. Double locating: illuminating locating and cross locating.
5. Configured with high-capacity rechargeable Li-ion battery.
6. Built-in white plate parameters and physical white calibration board, easy to operate.
7. New integrating sphere optical path design, more stable measurement.
8. Measurement data can pass national metrology authentication.



APPLICATION INDUSTRY

NR60CP precision colorimeter 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 precisely measure kinds of color indexes in various color spaces and easy to use with powerful functions. The instrument is equipped with high-end color management software which can connect to PC to achieve more extension functions.



SPECIFICATION PARAMETER

Illuminating/Viewing Geometry: 8°/d

Light Source: LED Light

Sensor: silicon photodiode array

Measuring aperture: $\Phi 8$ mm flat aperture; $\Phi 4$ mm tip aperture
Color Space: CIE LAB, XYZ, LCh, CIE RGB, CIE LUV

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

Other Chromaticity Data: WI (E313, CIE, AATCC, Hunter), YI (D1925, 313), Color Fastness, Staining Fastness, JPC79, BFD (1.5:1), FMCI

Observer: CIE 10°

Illuminant: D65, A, C, D50, F2, F6, F7, F8, F10, F11, F12

Display Data: Colorimetric Value, Color Difference Value/Graph, PASS/FAIL Result, Color Offset

Measuring Time: 0.4s

Repeatability: $\Delta E^*_{ab} < 0.03$ (Average of 30 measurements of standard white plate within 5s)

Errors between each instrument: within $\Delta E^*_{ab} < 0.2$
Dimension: 205*67*80mm

Weight: 500g

Battery: rechargeable lithium-ion battery 3.7V @ 3200mAh

Lamp Life: 5 years, more than 1.6 million measurements

Screen: TFT 2.8 inch (16:9)

Interface: USB/RS-232

Storage: 100 Standards, 20000 Samples

Operating Temperature: 0~40°C (32~104°F)

Storage temperature: -20~50°C (-4~122°F)

PC software: CQCS3 software

Optional accessory: miniature thermal printer, powder test box

3nh[®]
Focus on Color

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