

# 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:**  $8^\circ/d$

**Light Source:** LED Light

**Sensor:** silicon photodiode array

**Measuring aperture:**  $\Phi 8\text{mm}$  flat aperture;  $\Phi 4\text{mm}$  tip aperture

**Color Space:** CIE L\*AB, XYZ, LCh, CIE RGB, CIE LUV

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

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

**Observer:** CIE  $10^\circ$

**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  $\Delta E^*_{ab} < 0.4$

**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

**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**<sup>®</sup>  
Focus on Color

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