

Make measurement easier



## NR100 Precision Colorimeter

NR100 is a high-cost performance handheld colorimeter, and easy to use. It is widely used in plastic, electronic, paint, ink, textile, garment, printing and dyeing, food, medical, cosmetic, industries, scientific research institutes, schools and laboratories.



## PRODUCT FEATURES

1. Built-in white plate parameters. No need to calibrate each time which realize rapid measurement;
2. Double Apertures:  $\Phi 8\text{mm}$  flat aperture and  $\Phi 4\text{mm}$  tip aperture for switch, easy to measure concave sample in large plane;
3. High stability and accuracy, good compatibility for test data compared with geometric optical structure D/8 spectrophotometer;
4. Double locating: illuminating locating and cross locating;
5. Equipped with rechargeable built-in high-capacity Li-ion battery. No need to purchase battery repeatedly;
6. True color FTF 2.8 inch display, good human-computer interaction;
7. More than 10,000 test data storage spaces;
8. The new integral sphere design makes the measurement more stable.



## APPLICATION INDUSTRY

NR100 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.



## SPECIFICATION PARAMETER

Model : NR100

Illuminating/Viewing Geometry : 8/d(8°illumination angle/diffuse viewing);

Conforms to CIE No.15,GB/T 3978.

Illumination : LED white light

Detector : Silicon photoelectric diode

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

Color Space : CIE LAB

Color Difference Formula :  $\Delta E^*ab$

Observer Angle : CIE 10°

Light Source : D65

Displayed Data : Chromaticity Values, Color Difference Values/Graph,  
PASS/FAIL Result, Color Offset

Measuring Time : 1.0s

Repeatability : Standard deviation within  $\Delta E^*ab$  0.03

(Average of 30 measurements of standard white plate)

ween Each Equipment Within :  $\Delta E^*ab$  4 (Average for 12 BCRA  
Series II color tiles)

Dimension : 205×67×80 mm

Weight : 500g

Power source : Rechargeable lithium-ion battery 3.7V@3200mAh

Lamp Life : TFT 2.8 inch

Interface : USB

Data Memory : 100pcs standards 10000pcs samples

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

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

PC Software : No

Standard Accessory : Power Adapter, User Guide, Wristbands,  
 $\Phi 8\text{mm}$  flat aperture;  $\Phi 4\text{mm}$  tip aperture.

Optional Accessory : Micro Printer, powder test box

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