

# NR110 Precision Colorimeter

**3nh**  
Focus on Color

- Double Locating: Illuminating locating and cross locating
- Double Measurement End face: Large area measurement and small area measurement
- New Integrating Sphere Design: More stable measurement
- Equipped with Rechargeable High-Capacity Li-ion Battery



NR Series Precision Colorimeter

Make the Measurement Easier



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# NR110 Precision Colorimeter

## Product Advantages

- a. Built-in white plate parameters. No need to calibrate each time which realizes rapid measurement.
- b. Double Locating: Illuminating locating and precise cross locating.
- c. Switchable Double Measurement End face: Large area stable end face and small area measurement for concave-convex end face.
- d. New Integrating Sphere Optical Path Design: Eliminating the stray light of main optical path and auxiliary optical path.  
Having the advantages of the highest measurement stability and precision.
- e. 4mm Measuring Aperture: suitable for more measurement circumstances.
- f. Equipped with rechargeable high-capacity Li-ion battery. No need to purchase battery repeatedly.
- g. Configure CQCS3 software. Connect PC computer to realize more functions.
- h. Having passed SCM Metrological Certification, CE Certification, and ISO9001 Quality Management System Certification.
- i. Hand-head structure: small and convenient; make the measurement easier.
- j. Exquisite appearance: adopts traditional and fashionable aesthetic designs.

## Applicable Industries



## Technical Specifications

Measurement End-face: Large stable end-face and small area concave-convex end face  
Color Space: CIEL\*a\*b\*C\*h\* CIEL\*a\*b\*  
Color Difference Formula:  $\Delta E^*ab \Delta L^*a^*b^* \Delta E^*C^*h^*$   
Illuminating/Viewing Geometry: 8° /d  
Detector: Silicon photoelectric diode  
Measuring Aperture:  $\Phi 4\text{mm}$   
Locating: Illuminating Locating/Cross Locating  
Light Source: D65  
Light Source Device: LED blue light excitation  
Lamp Life: 5 years, more than 1.6 million  
Dimension: 205 × 67 × 80 mm  
Storage: 100pcs standards 20000pcs samples  
Weight: 450g  
Errors Between Each Equipment:  $\leq 0.80 \Delta E^*ab$   
Repeatability: Standard deviation within  $\Delta E^*ab 0.08$  Average of 30 measurements of standard white plate  
Power source: Rechargeable lithium-ion battery 3.7V@3200mAh  
Charging Time: 2 hours(8 hours for first charge)—100% electricity  
PC Software: CQCS3 Software  
Printer (optional): Miniature thermal printer

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