



**NR110 Precision Colorimeter**

Since 1998, from import to domestic, 3nh NR110 precision colorimeter is an iconic milestone in color test industry.



## New Functions

Double Locating: Illuminating locating and cross locating

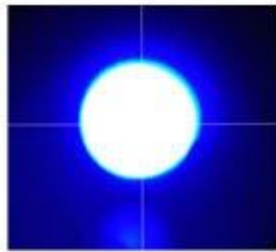
Double Measurement End Face: Large area measurement and small area measurement

New Integrating Sphere Design: More stable measurement

Equipped with Rechargeable High-Capacity Li-ion Battery

## Product Advantages

- a. Built-in white plate parameters. No need to calibrate each time which realize rapid measurement.
- b. Double Locating: Illuminating locating and precise cross locating.
- c. Switchable Double Measurement End Face: Large stable end face and small concave-convex end face.
- d. New Integrating Sphere Optical Path Design: Eliminating the stray light of main optical path and auxiliary optical path. Possessing the highest measurement stability and precision.
- e. 4mm Measuring Aperture.
- 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 got 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.
- k. Spending huge sums on high-end mold. Product consistency approaches 100%.
- l. High cost performance: large output, good quality, cheap products.



Illuminating Locating, Cross Locating, Large Stable End Face, Small Concave-Convex End Face.  
(for NR110)

## NR110 Technical Specifications

Illuminating/Viewing Geometry	8/d
Measuring Aperture	Φ4mm
Detector	Silicon photoelectric diode
Locating	Illuminating Locating/Cross Locating
Measurement End Face	Large stable end-face and small concave-convex end-face
Color Space	CIEL*a*b*C*h* CIEL*a*b* CIEXYZ
Color Difference Formula	$\Delta E^*ab$ $\Delta L^*a^*b^*$ $\Delta E^*C^*h^*$
Light Source	D65
Light Source Device	LED blue light excitation
Errors Between Each Equipment	$\leq 0.80\Delta E^*ab$
Storage	100pcs standards 20000pcs samples
Repeatability	Standard deviation within $\Delta E^*ab$ 0.08 Average of 30 measurements of standard white plate
Language	English/Chinese
Weight	450g
Dimension	205×67×80 mm
Power source	Rechargeable lithium-ion battery 3.7V@3200mAh
Lamp Life	5 years, more than 1.6 million measurements
Charging Time	8 hours--100% electricity
PC Software	CQCS3 Software
Printer (optional)	Miniature thermal printer