NR145 Precision Colorimeter

3nh R&D team concentrates on customer needs and develops series of high-cost and high-quality products. NR145 is a precision colorimeter with 45°/0° viewing angle after NH310, NH300, NR200, NR110 and NR100 colorimeter. NR145 colorimeter has strong functions which applied a number of differential innovative technologies. It can measure accurately in 45° illumination /0° receiving under the SCE mode.

Product Advantages

1. Built-in white plate parameters. No need to calibrate each time which can perform measurement quickly.
2. Double Locating: Illuminating locating and precise cross locating.
3. Using super light path, dynamical-integral and timing measurement three key technology to improve the stability and accuracy.
4. New 45°/0° Optical Path Design: Significantly improve the measurement stability and precision.
5. 8mm Measuring Aperture.
6. Equipped with rechargeable high-capacity Li-ion battery. No need to purchase battery repeatedly.
7. Configure CQCS3 software. Connect PC computer to realize more functions.
8. Having got SCM Metrological Certification, CE Certification, and ISO9001 Quality Management System Certification.
9. Hand-head structure: small and convenient; make the measurement easier.
10. Exquisite appearance: adopts traditional and fashionable aesthetic designs.

Technical Specifications

3nh	**NR145**
Illuminating/Viewing Geometry	45°/0°
Measuring Aperture	Φ8mm
Measurement End-face	Large stable end face and small concave-convex end face
Detector	Silicon photoelectric diode
Locating	Illuminating Locating/Cross Locating
Color Space	CIEL*a*b*C*h* CIEL*a*b* CIEXYZ
Color Difference Formula	△E*ab △L*a*b* △E*C*h*
Light Source	D65
Light Source Device	LED blue light excitation
Errors Between Each Equipment	≤0.80ΔE*ab
Storage	100pcs standards 20000pcs samples
Repeatability	Standard deviation within ΔE*ab 0.08 Average of 30 measurements of standard white plate
Weight	500g
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	The first charging time is 8 hours--100% electricity
PC Software	CQCS3 Software
Printer (optional)	Miniature thermal printer