

NH310 High-Quality Portable Colorimeter **High-End Brand of Domestic Colorimeter**



NH310 is a mainstream brand colorimeter introduced by 3nh which has synthesized the advantages of ten more traditional imported colorimeters and has experienced ten thousands tests and applied many innovative technologies. Accurate, Stable, Exquisite and Affordable!

The Preferred Solution for Color Quality Control Management

NH310 high-quality portable colorimeter has adopted multi-channel color sensors of international brands, more stable IC platform as well as efficient and accurate algorithms to provide users with accurate and fast color management and application. NH310 is also designed with ergonomics and humanized operation and it has applied for a number of patents. NH310 is a multifunctional colorimeter with high quality and competitive price. 3nh insists on independent research whose technology innovation is unique in color management field. NH310 is the most convenient colorimeter for users.

1. Leading Humanity Design and Convenient Operation

Auto White and Black Calibration at Startup

Structure Design in line with Ergonomics

Fool-style Operation Interface

2. Stable Measurement Performance

The average fluctuation of ΔE is less than 0.06, actually more in 0.03~0.06.

Portable structure design which is more conducive to keeping the instrument stable when using.

3. Flexible and Accurate Locating

Camera locating can solve the problem of locating a small area. The minimum width of

locating is 4mm.

Illumination locating is a fast, simple and convenient locating function which is the original function by 3nh.

4. More Measurement Modes

Three measuring apertures for more circumstances.

Five color spaces for more color schemes selection.

Three light sources for more circumstances.

5. PC Software—Realize More Function Expansion

3nh has the intellectual property of PC software. The corresponding software serial number and password protection are configured in 3nh colorimeter.

Be able to perform color difference analysis, color difference cumulative analysis, chromaticity index, color sample database management, simulating object color, etc.

6. Advanced Power Management Design

3nh is the first enterprise using high capacity Li-ion battery in colorimeter.

3nh Li-ion battery can be repeatedly charged which will save cost. Meanwhile, it can measure more than 3000 times on one charge to ensure the stability of long time measurement.

Specifications of NH310 Colorimeter

NH Series Colorimeter Specifications

	NH310
Illuminating/Viewing Geometry	8/d
Measuring Aperture	Φ8mm/Φ4mm
Detector	Silicon photoelectric diode
Color Space	CIEL*a*b*C*h* CIEL*a*b* CIEXYZ CIERGB CIEL*u*v* CIEL*C*h Yellowness & Whiteness Color Fastness
Color Difference Formula	ΔE*ab ΔL*a*b* ΔE*C*h* ΔECIE94 ΔEhunter
Light Source	D65 D50 A
Light Source Device	LED blue light excitation
Errors Between Each Equipment	≤0.40ΔE*ab
Storage	100pcs standards 20000pcs samples
Repeatability	Standard deviation within ΔE*ab 0.06 Average of 30 measurements of standard white plate
Weight	500g
Dimension	205×70×100 mm
Power source	Rechargeable lithium-ion battery 3.7V@3200mAh

Lamp Life	5 years, more than 1.6 million measurements
Charging Time	2 hours (first time 8 hours--100% electricity)
Measuring Times Before Recharging	more than 3000 times
Operating Temperature/Humidity Range	-10~40°C, relative humidity 0~85% with no condensation
Data Interface	USB
Extended Aperture (optional)	Φ8mm extended aperture, available for measuring concave surface
Printer (optional)	Miniature thermal printer