

NH310 Portable Colorimeter

NH310-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!

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Product Comparison

High-End Brand of Domestic Colorimeter

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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.

NH310 High-Quality Portable Colorimeter



1. Leading Humanity Design and Convenient Operation

- Auto White and Black Calibration at Startup
- Structure Design in line with Ergonomics
- Easy-to-use 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.



National Patent and Innovative Technology

No.1 Camera locating and illumination location (NH310 has new functions of double locating.)

No. 2 Built-in white plate; Automatic calibration at startup (for NH310)

No. 3 Extended aperture (optional), available for measuring concave surface



Camera Locating
Illumination Locating



Built-in White Plate
Automatic Calibration at Startup



Extended Aperture(Optional)
Available for measuring concave surface



Configuring 8mm & 4mm apertures

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 $\Delta L^*a^*b^*$ $\Delta E^*C^*h^*$ ΔE_{CIE94} ΔE_{Hunter} |
| Light Source | D65 D50 A |
| Light Source Device | LED blue light excitation |
| Errors Between Each Equipment | $\leq 0.40\Delta E^*ab$ |
| 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 |

