# NH310 High Quality Colorimeter

- Patent Technology: camera locating
- Patent Technology: automatic white calibration at startup
- Patent Technology: extended aperture to measure concave surface
- Double Measuring Apertures: 8mm and 4mm apertures which can be switched.
- Configure rechargeable Li-ion battery





**NH Series High Quality Colorimeter** 

**Color So Rich in Beauty** 







# NH310 High Quality Colorimeter

### 1. Leading Humanity Design and Convenient Operation

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

#### 2. Stable Measurement Performance

- The average fluctuation of △E is less than 0.06, actually more in 0.03~0.05.
- Portable structure design is more conductive 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.
- Ilumination locating is a fast, simple and convenient locating which is created by 3nh.

#### 4. More Measurement Modes

- Three measuring apertures for more circumstances.
- Five color spaces for more color scheme selections.
- Three light sources suitable for more occasions.

### 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.

E Total Color Aberration

 $\triangle$ L is large stands for the color is partial white.  $\triangle$ L is small stands for the color is partial black.  $\triangle$ a is large stands for the color is partial red.

△a is small stands for the color is partial green. △b iS large stands for the color is partial yellow.

△b is small stands for the color is partial blue





Test Box

#### 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.

#### **Applicable Industries**



#### **Technical Specifications**

IlluminatingNiewing Geometry:8/d Measuring Aperture:Φ8mm/Φ4mm Detector: Silicon photoelectric diode

Color Space: 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: △E\*ab △L \*a\*b\* △E\*C\*h\* △ECIE94 A Ehunter

Light Source: D65 D50 A

Light Source Device: LED blue light excitation Errors Between Each Equipment: ≤0.40△E\*ab Storage: 100pcs standards 20000pcs samples

Repeatability: Standard deviation within \( E^\* ab 0.06 \) Average of 30 measurements of standard white plate

Weight: 500g

Dimension: 205x 70x 100 mm

Power source: Rechargeable lithium-ion battery 3.7V@3200mAh L amp Life: 5 years, more than 1.6 million measurements

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