

# NH300 High Quality Colorimeter

**3nh**  
Focus on Color

- Humanity Design and Convenient Operation
- Stable Measurement Performance
- Convenient and Fast Locating
- PC Software—More Function Expansion
- Equipped with High Capacity Li-ion Battery



NH300 colorimeter, easy to use and cost-effective, widely used in R&D, quality control and production management department, can measure color difference accurately and quickly. NH300 colorimeter is equipped with quality control management software which can connect the computer to realize more functions.

NH Series High Quality Colorimeter

Color So Rich in Beauty



Shenzhen ThreeNH Technology Co., Ltd.

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# NH300 High Quality Colorimeter

## 1. Leading Humanity Design and Convenient Operation

- One-Touch Access to Measurement Interface
- Structure Design in line with Ergonomics
- Easy-to-use Operator Interface

## 2. Stable Measurement Performance

- The average fluctuation of  $\Delta E$  is less than 0.07, actually more in 0.04~0.06.
- Portable structure design is more conducive to keeping the instrument stable when using.

## 3. Flexible and Accurate Locating

- Illumination locating is a fast, simple and convenient locating which is created by 3nh.

## 4. PC Software—Realize More Function Expansion

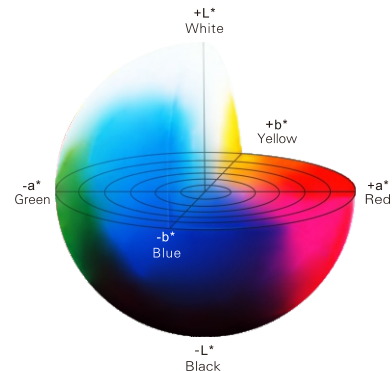
- 3nh has the intellectual property of PC software. The corresponding software serial number and password protection are configured in 3nh colorimeter.
- Be able to perform color difference analysis, color difference cumulative analysis, chromaticity index, color sample database management, simulating object color, etc.

## 5. Advanced Power Management Design

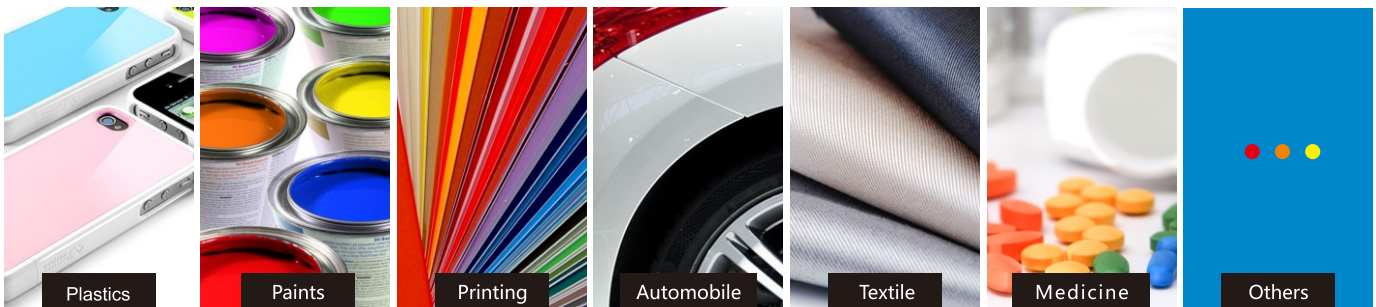
- 3nh is the first enterprise using high capacity Li-ion battery in colorimeter.
- 3nh Li-ion battery can be repeatedly charged which will save cost. Meanwhile, it can measure more than 3000 times on one charge to ensure the stability of long time measurement.

### $\Delta E$ Total Color Aberration

$\Delta L$  is large stands for the color is partial white.  
 $\Delta L$  is small stands for the color is partial black.  
 $\Delta a$  is large stands for the color is partial red.  
 $\Delta a$  is small stands for the color is partial green.  
 $\Delta b$  is large stands for the color is partial yellow.  
 $\Delta b$  is small stands for the color is partial blue.



## Applicable Industries



## Technical Specifications

**Illuminating/Viewing Geometry :** 8/d

**Measuring Aperture :**  $\Phi 8\text{mm}$

**Detector :** Silicon photoelectric diode

**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 :**  $\leq 0.40\Delta E^*ab$

**Storage :** 100pcs standards 20000pcs samples

**Repeatability :** Standard deviation within  $\Delta E^*ab$  0.07 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

**3nh**<sup>®</sup>  
Focus on Color

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