

# NR200 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



NR200 colorimeter, with high cost-effective, is another masterpiece of 3NH. NR200 is a portable colorimeter with high stability, high accuracy and high cost-effectiveness.

## NR Series Precision Colorimeter

Make the Measurement Easier



3NH TECHNOLOGY CO., LTD.  
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# NR200 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 0.08,
- 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

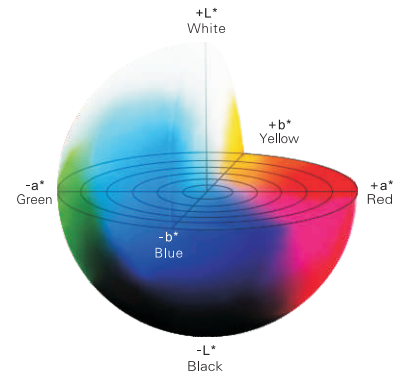
- 3nh has the intellectual property of PC software. The corresponding software serial number and password protection are configured in 3nh colorimeter.
- Be able to perform color difference analysis, color difference cumulative analysis, chromaticity index, color sample database management, simulating 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 :  $\leq 0.50 \Delta E^*_{ab}$

Storage : 100pcs standards 20000pcs samples

Repeatability : Standard deviation within  $\Delta E^*_{ab}$  0.08 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

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