



[www.3nh.com](http://www.3nh.com)

## NR20XE High Cost-effective colorimeter

When normally measuring some products such as fresh meat, the whole body of the product is placed on the measured object, which not only contaminates the instrument, but also pollutes the measured object easily. NR20XE is designed as vertical structure, which ensures that the body is upright when measuring, and only the measuring aperture contacts the measured object. 3nh NR20XE is a portable computer colorimeter designed with 45 / 0° optical geometry and 20mm large measuring aperture, which has high measuring accuracy and unique performance.



Wet objects can be measured



Long life LED light source



Double measuring aperture



High hardware configuration



## PRODUCT FEATURES

1. 20mm measuring aperture can test objects with surface stripe accurately.
2. Vertical structure can test wet surface object or can be soaked into the liquid for testing.
3. Double Locating: Illuminating locating and cross locating.
4. Adopting new optical path and dynamic integration time can test more stable and accurate.
5. 45°/0° optical geometry structure, considering the effects of surface features.
6. Annular illumination design, suitable for polarizing material.
7. Equipped with rechargeable high-capacity Li-ion battery. No need to purchase battery repeatedly.
8. Configuring CQCS3 software -- connect PC computer to realize more functions.



## APPLICATION INDUSTRY

NR20XE is widely used in plastics (PET, PE, PP, PTA, ABS, EVA particles and powders), color steel plates, coatings, textiles, fluorescent materials, denim, medicine, food and other industries. to analyze and control the quality of the production process. It can control product color differences, improve product competitiveness, reduce enterprises losses, and control production costs.



Color steel plates



Textiles



Plastics



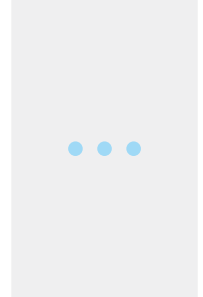
Coating



Food



Laboratory



Others

## TECHNICAL SPECIFICATIONS

**Model:** NR20XE

**Illuminating/Viewing Geometry:** 45° /0°

**Standard:** CIE No.15, GB/T 3978

**Sensor:** silicon photodiode

**Measuring Aperture:** 20mm

**Color Space:** CIE LAB, Lch,XYZ

**Observer:** CIE 10°

**Illuminant:** D65

**Display Data:** Colorimetric Value, Color Difference Value Storage

**temperature:** /Graph, PASS/FAIL Result, Color Offset

**Measuring Time:** 1.5s

**Dimension:** 205\*67\*80mm

**Repeatability:**  $\Delta E^* ab0.08$  (Average of 30 measurements of standard white plate)

**Errors between each instrument:**  $\Delta E^* ab 0.5$  (Average for 12 BCRA series color tiles)

**Weight:** 400g

**Battery:** rechargeable lithium-ion battery 3.7V@ 3200mAh

**Lamp Life:** 5 years, more than 1.6 million measurements

**Screen:** TFT 2.8 inch(16: 9)

**Interface:** USB

**Storage:** 100 Standards, 20000 Samples

**Operating Temperature:** 0-40°C(32-104°F)

**Storage temperature:** -20-50°C(-4-122°F)

**Standard accessories:** power adapter, data line, instructions, quality control software (download from official website), Whiteboard box, Wristband

**Optional accessory:** miniature thermal printer, powder test box

### Shenzhen ThreeNH Technology Co., Ltd.

Address:F/6,Block5B,SkyworthInnoValley,Tangtou1stRoad,Shiyan,BaoanDistrict,Shenzhen,P.R.China.

Sales:400--666-2522

Tel:86-755-26508999

Email:3nh@3nh.com

Fax:86-755--26078633

Website:www.3nh.com

The technical specifications and designs are subject to change without notice.

3nh-13-100(13-3)Print in Shenzhen

**3nh**  
Focus on Color