



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. $45^{\circ}/0^{\circ}$ 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: $45^{\circ}/0^{\circ}$

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: $\Delta E^* ab 0.08$ (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 2.4inch(16:9)

Interface: USB

Storage: 100 Standards, 20000 Samples

Operating Temperature: $0-40^{\circ}\text{C}$ ($32-104^{\circ}\text{F}$)

Storage temperature: $-20-50^{\circ}\text{C}$ ($-4-122^{\circ}\text{F}$)

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

GUANGDONG THREENH TECHNOLOGY CO., LTD.



Spectrophotometers



Colorimeters



Haze Meters



Gloss Meters



Test Charts



Light Booths

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