

NR20XE Precise Colorimeter

- Vertical structure which is enable us can measure wet objects or we can put the measuring aperture immersed in the liquid
- 20mm large aperture which is enable us to measure materials with texture
- That ring of light could apply to the measurement of polarizing material
- With high capacity and rechargeable lithium-ion battery



NR20XE Large Aperture Precision Colorimeter

NR20XE precision colorimeter with $\phi 20\text{mm}$ extended aperture and stable end face can test surface stripe and wet products. It is a colorimeter with unique performance. The color measurement results from NR20XE simulate human eyes but its accuracy is several times higher than human eyes.



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 colorimeter spectrophotometer is widely used in plastic, electronic, paint, ink, textile, garment, printing and dyeing, food, medical, cosmetic industries, scientific research institutes, schools and laboratories. It not only can help to perform color matching and color management studies, but also can control product quality management. NR20XE colorimeter is equipped with high-end color management software that can connect to PC to achieve more extension functions.



SPECIFICATION PARAMETER

Model:NR20XE Precision Colorimeter

Illuminating/Viewing Geometry: $45^{\circ}/0^{\circ}$

Measuring Aperture : $\Phi 20\text{mm}$

Special Function:Especially suitable for testing surface stripe and wet products

Locating:Illumination Locating/Cross Locating

Detector:Silicon photoelectric diode

Color Space:CIEL*a*b*C*h*; CIEL*a*b*; CIEXYZ

Color Difference Formula: ΔE^*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 ΔE^*ab 0.08 Average of 30 measurements of standard white plate

Weight:500g

Dimension:205×67×80 mm

Power source:Rechargeable lithium-ion battery 3.7V@3200mAh

Lamp Life:5 years, more than 1.6 million measurements

Charging Time:First charging time is 8 hours--100% electricity

PC Software:CQCS3 Software

Printer (optional):Miniature thermal printer