Portable Colorimeter

The colorimeter is widely used in plastic, metal, electronic, paint, ink, textile, garment, printing and dyeing,food, medical, cosmetic, automotive, toy...industries.

Features:

NR110

◆ Built-in white plate parameters: No need to calibrate each time which realize rapid measurement.
◆ New Integrating Sphere Optical Path Design: Eliminating the stray light of main optical path and auxiliary optical path. Having the advantages of the highest measurement stability and precision.
◆ Equipped with rechargeable high-capacity Li-ion battery.
◆ Configure CQCS3 software: Connect PC computer to realize more functions. Cross Platform Measuring Aperture &Small Area Measuring Aperture.

NR200

◆ Leading Humanity Design and Convenient Operation: One-touch access to measurement interface; Structure design in line with ergonomics
◆ Stable Measurement Performance : The repeat-ability △E is 0.08.; Portable structure design is more conductive to keeping the instrument stable when using.
◆ Convenient and Fast Locating: Illumination locating is a fast, simple and convenient locating
◆ PC Software—Realize More Function Expansion: Perform color difference analysis,color difference cumulative analysis,chromaticity index, color sample database management, simulating object color, etc.
◆ Advanced Power Management Design: using high capacity Li-ion battery in colorimeter. It can measure more than 3000 times on one charge to ensure the stability of long time measurement.

Technical Specifications:

Model	NR110	NR200
Illuminating/View Geometry	8/d	
Measure Aperture	Φ4mm	Φ8mm
Detector	Silicon photoelectric diode	
Locating	Illuminating Locating/Cross Locating	
Double Measure End Face	Large stable end face and small concave-convex end face	
Color Space	CIEL*a*b*C*h* CIEL*a*b* CIEXYZ	
Color Difference Formula	△E*ab △L*a*b* △E*C*h*	
Light Source	D65 / LED blue light excitation	
Errors Between Each Equipment	≤0.80ΔE*ab	≤0.50ΔE*ab
Storage	100pcs standards 20000pcs samples	
Repeatability	Standard deviation within ΔE*ab 0.08, Average of 30 measurements of standard white plate	
Packing Dimension	450*230*370 mm & 2.5KG	
Power source	Rechargeable build-in lithium-ion battery 3.7V@3200mAh	Rechargeable lithium-ion
Lamp Life	5 years, more than 1.6 million measurements	3 years, more than 1 measurements
Charging Time	8 hours--100% electricity	
Interface	USB	
PC software	CQCS3 software	
Optional	Miniature thermal printer, Powder Test Box, liquid/powder sample holder	