



High-Quality Portable Computer Colorimeter

XD-1054 high-quality portable colorimeter has adopted multi-channel color sensors of international brands, more stable IC platform as well as efficient and accurate algorithms to provide users with accurate and fast color management and application.

XD-1054 is also designed with ergonomics and humanized operation .

XD-1054 is a multifunctional colorimeter with high quality and competitive price.

Application Area

- Plastic industry——used for color quality control of plastic raw materials and plastic products to ensure color consistency between batches.
- Coating industry——accurately measure the color parameters of coatings and paints to ensure the stability of product quality.
- Textile printing and dyeing——used for color measurement and color difference control of textiles and fabrics to improve the qualified rate of products.
- Food industry——measure the color parameters of food and evaluate the freshness and quality grade of food.
- Cosmetics——control the color consistency of cosmetics to ensure the stable appearance quality of products.
- Building materials industry——used for color quality control of building materials such as tiles, stones and paints.



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Feature highlights

1. Leading Humanity Design and Convenient Operation

Auto White and Black Calibration at Startup

Structure Design in line with Ergonomics

Easy-to-use Operation Interface

2. Stable Measurement Performance

The average fluctuation of ΔE is less than 0.06, actually more in

Portable structure design which is more conducive to keeping t

3. Flexible and Accurate Locating

Camera locating can solve the problem of locating a small area. The minimum width of locating is 4mm.

Illumination locating is a fast, simple and convenient locating function which is the original function.

4. More Measurement Modes

Three measuring apertures for more circumstances.

Five color spaces for more color schemes selection.

Three light sources for more circumstances.

5. PC Software—Realize More Function Expansion

XD-1054 has the intellectual property of PC software. The corresponding software serial number and password protection are configured in colorimeter.

Able to carry out color difference analysis, color difference cumulative analysis, chromaticity index, color sample database management, simulation of physical color and so on.

6. Advanced Power Management Design

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.



Product Features

- Caliber: 4/8mm caliber
- Scope of application: aluminum plate, wood plate, plastic, liquid powder.
- Positioning: high-end
- Accuracy: long term
- Features: 4/8 double caliber, liquid powder can be measured.
- The color difference meter can perform color difference analysis, color difference accumulation analysis, chromaticity index, color sample library management, simulated object color and so on.
- Plastic colorimeter-wood colorimeter-aluminum colorimeter



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Main Technical Parameters

Type	XD-1054
Lighting mode	8° /d; Standard: CIE No.15, GB/T 3978.
Illumination light source	Full spectrum LED light source
Sensor	CMOS dual optical path sensor
Measuring Aperture	Φ8/Φ4mm
Color Space	CIE LAB,XYZ,LCh,CIE RGB, CIE LUV
Color Difference Formula	$\Delta E^*ab, \Delta E(h), \Delta E^*uv, \Delta E^*94, \Delta E^*cmc(2:1), \Delta E^*cmc(1:1), \Delta E^*00$
Other chromaticity indexes	Yellowness, whiteness, color fastness to staining, color fastness
Observer angle	CIE 10° Standard observer
Light Source	D65,A,D50
Show	Chromaticity value, chromatic aberration value/graph, qualified/unqualified result, color deviation
Measuring time	1.5s
Repeatability	Within $\phi 8\text{ mm}/\Delta e^*ab 0.06$ (after the instrument is preheated and corrected, measure the average value of the whiteboard for 30 times at intervals of 5s).
Errors Between Each Equipment	$\leq 0.40\Delta E^*ab$ (Average value of 12 color swatches of BCRA series II.)
Dimension	205×70×100mm
Weight	About 400g (including battery)
Power source	Rechargeable lithium-ion battery 3.7V@3200mAh
Lamp Life	5 years, more than 1.6 million measurements
Monitor	TFT True color 2.4inch@ (16:9)
Data Interface	USB
Location mode	Spot positioning, camera positioning
Storage	100pcs standards 20000pcs samples
Operating temperature range	0~40°C (32~104° F)
Storage temperature range	-20~50°C (-4~122° F)
PC Software	Quality management software
Standard Attachment	Power adapter, manual, quality management software (downloaded from official website), data cable, whiteboard box, $\phi 8$ measuring aperture, $\phi 4$ measuring aperture, lithium battery.
Optional accessories	Micro printer, powder test box, multifunctional test assembly, $\phi 8$ extended measuring aperture.