



COLORIMETER BKH-201

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TOUCH SCREEN COLORIMETER

This is a portable multifunctional colorimeter with D/8° (SCI) optical geometry design. The color analyzer is equipped with a 3.5-inch IPS color capacitive touch screen, providing an excellent operating experience. The colorimeter integrates multiple natural color charts, and can quickly match the measured color to the closest color codes. The color difference meter also has a color difference comparison function, supports a variety of standard color addition methods, and the color difference threshold can be set. The color difference formula can be flexibly selected, which can realize rapid QC testing.



3.5-inch touch screen makes the operation more convenient

The colorimeter comes with a 3.5-inch IPS color touch screen, no button operation is required. The screen is tilted at 30 degrees, a perfect viewing angle, convenient for reading.

Color measurement and color comparison function

Color measurement can be achieved by touching the screen button or pressing the power button, and the color value can be measured in 1 second. Two clicks can complete the color difference comparison.

Built-in multiple electronic color charts

The instrument is built-in multiple standard electronic color cards, when using the colour measurement function, it can quickly match the closest 3 color codes, the accuracy rate is up to 90% or more.

SPECIFICATIONS

Model	BKH-201
Illumination geometry	D/8, specular component include (SCI)
Illumination light source	Full spectrum LED light source
Spectral Range	400-700nm
Spectral Interval	10nm
Measuring aperture	8mm
Measurement conditions	Light source D65, field of view 10°
Measuring time	About 1s
Color space	CIE Lab, LCh, Luv, Yxy, CMYK, RGB, YI-98, WI-98, WI-Ganz, WI-Hunter, WI-R457, HSL, HSV, ITA, Spectra
Color difference formula	ΔE^*ab , ΔE^*uv , ΔE^*94 , $\Delta E^*cmc(2:1)$, $\Delta E^*cmc(1:1)$, ΔE^*00 , $\Delta E^*cmc(1.4:1)$
Repeatability	Standard deviation $\Delta E^*ab \leq 0.03$ (Measurement condition: the average value of 30 measurements on the whiteboard at an interval of 3s after calibration)
Dimension	86mmx62.5mmx158mm
Weight	About 245g
Power supply	Rechargeable lithium battery 3.7V@4000mAh, can measure 10,000 times continuously under full charge
Display	480x320 dot matrix IPS color screen
Language	Simplified Chinese, English, Turkey
Charging port	USB (Type-C)
Operating temperature range	0~45°C, 0~85%RH (no condensation)
Storage temperature range	-25~55°C, 0~85%RH (no condensation)
Alt Name	Touch Screen Colorimeter

FEATURES

3.5-inch touch screen makes the operation more convenient

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Lab values indication makes color mixing easier

In the color difference comparison interface, it can display the color deviation indication values of the three color channels of CIE Lab, making color mixing easier.

Large storage capacity

You can build your own private color database and industry-specific color card information in the colorimeter, which can store over thousands of color data entries, instead of carrying heavy color cards.

Various ways to complete color comparison

You can enter the values of the standard color in the color compare interface or just add from the personal color chart and standard color chart. No need to worry about ageing and discoloration of samples.

Share colors via different ways

Users can easily share color data with friends, family and even your paint store - right from our colorimeter App and PC software.

Advanced quality control

In the color difference comparison mode, you can set a color difference threshold, the colorimeter shows pass/fail, ΔL , Δa and Δb - especially for rigorous industrial settings.

Repeatability $\Delta E^*ab \leq 0.03$

Good repeatability, $\Delta E^*ab \leq 0.03$, the colorimeter can pass the inspection of an authoritative metrology institute.

Multiple color spaces and color difference formulas

Provide multiple color spaces and color difference formulas for different industries.

Spectral reflectance curves

Provides professional spectral reflectance curves from which the user can obtain information on the hue, saturation and shade of the sample color.

Support mobile App and PC software

The instrument can be used with mobile APP or PC software for online measurement, covering Android, iOS and Windows systems, to help users to data color management and generate test reports.

Locating plate makes color measurement more accurate

The colorimeter is equipped with a measurement locating plate to meet the needs of precise alignment, and make the measurement more accurate.

Whiteboard calibration

The bottom cover integrates a calibration white tile, so there is no need to worry about losing it. No need for tedious operation.

Portable and handheld size

Smart and portable, easy to store and carry; stable body, ergonomic design, more stable measurement data.

Full spectrum LED light source

Adoption of full-spectrum LED light source ensures sufficient spectral distribution in the visible range, avoiding the spectral deficiency of white LEDs in specific wavelength bands.

D/8 illumination

The internationally widely used D/8, specular component include (SCI) measurement structure is adopted, which can more truly

reflect the actual lighting conditions and is suitable for color measurement of most materials.

APPLICATIONS

It is usually used in paint, metal, stone, ceramic tiles and plastics industries for color measurement and management, color difference quality control. The colorimeter is illuminated by an integrating sphere diffused light source, which is very suitable for color measurement of high-gloss samples.



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