



COLORIMETER BKH-101

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TOUCH SCREEN COLORIMETER

This is a handheld multifunctional colorimeter designed with a 45/0 annular illumination geometry. It uses a 3.5-inch IPS capacitive touch screen to provide an excellent operating experience. The color analyzer integrates multiple color charts, and it can quickly match the three closest color codes. The colorimeter also has a color comparison function, and supports a variety of standard color addition methods. The color difference threshold can be set, and the color difference formula can be flexibly selected, which can realize rapid QC testing.



Touch screen operation, perfect experience

The instrument uses a 3.5-inch IPS color capacitive touch screen, no button settings are required. The screen is tilted at 30 degrees, a perfect viewing angle, which offers a good user experience and human-computer interaction interface. Integrating multiple electronic color charts

Colorimeters can quickly match the closest three color codes, and the accuracy rate is as high as 90%.

CIE Lab values indication

Only two clicks on the screen are needed to complete a color difference measurement. The colorimeter provides the color deviation indication of the three color channels of CIE Lab and assistance for color mixing.

Large storage space

SPECIFICATIONS

Model	BKH-101
Illumination geometry	45/0 (45°annular illumination, 0° viewing angle)
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-98WI-98, WI-Ganz, WI-Hunter, WI-R457HSL, 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 white tile at an interval of 3s after calibration)
Dimension	86mmx62.5mmx158mm
Weight	About 225g
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

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Large storage space

With massive storage space, users can create personalized color databases and easily enter industry-specific color card information.

Various ways to complete color comparison

You can enter the values of the standard color in the color compare interface and complete color comparison. Standard color can also be added from the personal color chart and standard color chart.

Support multi-channel color sharing

Enterprise users can import and export color data through the APP or PC software, manage their own color card information library and color formulas, and share the data through WeChat, QQ, email, etc. to the company or customers.

QC mode makes batch inspection easier

Use the quality control mode to set a color difference threshold and compare subsequent readings to it, showing pass/fail, ΔL , Δa and Δb - made for rigorous industrial settings.

Repeatability reaches 0.03, measurement accuracy is 0.01

Good repeatability, ΔE^*ab is within 0.03, the colorimeter can pass the inspection of an authoritative metrology institute.

Richer measurement parameters

The instrument has multiple color spaces such as Lab\RGB\CMYK and multiple color difference formulas such as ΔE^*ab , ΔE^*uv to choose from, matching the color measurement needs of various 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.

Powerful 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, simple operation

The bottom cap integrates a calibration whiteboard.

Small and portable

Small and portable, easy to carry.

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.

45°/0 optical path structure

Adopt the internationally accepted 45/0 (45° annular illumination, 0° viewing angle), SCI illumination observation conditions for more accurate measurement.

APPLICATIONS

This colorimeter is usually used in product color measurement and management, and product color difference quality control in paper printing.



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