



COLORIMETER BKH-501

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This small-aperture, multifunctional colorimeter features a 1mm measuring aperture, ideal for color measurement of small workpieces and special-shaped materials. The split design allows precise probe alignment with small objects, and the probe can be inverted for easy measurement without obstructing the host reading. The 3.5-inch IPS color touch screen provides an excellent user experience.



1mm Measuring Aperture Capture the Detail Color

With a 1mm measuring aperture, the instrument offers high accuracy for focused measurement of small, smooth, and opaque surfaces.

3.5-inch Touch Screen Easy to Operate

The 3.5-inch capacitive touch screen offers an intuitive interface, allowing easy color difference comparison with just two clicks.

Lab Values Indication

The spectrophotometer provides the color deviation indicator of the three color channels of Lab and assistance for color adjustment.

Built-in Multiple Electronic Color Charts

It comes with multiple electronic color cards, which can quickly match the closest color card number when measuring color, and the color card matching accuracy

SPECIFICATIONS

Model	BKH-501
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	1mm
Measurement Conditions	Light source D65, field of view 10°
Measuring Time	About 1s
Color Space	CIE Lab, Luv, LCh, Yxy, CMYK, RGB, HSL, HSV, WI-98, WI-Ganz, WI-R457, WI-Hunter, YI-98, Reflectance
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 ΔE^*ab is within 0.03(Measurement condition: the average value of 30 measurements on the whiteboard at an interval of 3s after calibration)
Inter-Instrument Agreement	$\Delta E^*ab \leq 0.4$, based on avg. of 12 BCRA series II tiles
Dimension	Main unit: 132 x 66.6 x 20mm (L*W*H)Probe: 45.4 x 37.3 x 64.1mm (L*W*H)
Weight	About 390g
Power Supply	Rechargeable lithium battery 3.7V@4000mAh, can measure 10,000 times continuously under full charge
Display	480 * 320 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	Colorimeter

FEATURES

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Lab Values Indication

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Built-in Multiple Electronic Color Charts

It comes with multiple electronic color cards, which can quickly match the closest color card number when measuring color, and the color card matching accuracy is greater than 90%.

Spectral Reflectance Curves

It can display a spectral reflectance curve to provide more professional color data for color measurement, from which information such as hue, saturation, depth, etc. can be obtained.

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

The spectrophotometer repeatability $\Delta E^*ab \leq 0.03$, the measurement accuracy is 0.01, which meets the first-level standards of the National Institute of Metrology.

Various Color Spaces and Difference Formulas

The instrument has a variety of color spaces and color difference formulas to choose from, meeting the needs of different industries.

Advanced Quality Control

The QC function allows manual setting of ΔE threshold values based on industry standards for intelligent color difference assessment.

Equipped with a Locating Plate

Equipped with a locating plate to meet the needs of precise alignment and make the measurement data more accurate.

More Features Available in the APP

The instrument can be connected to the APP to share color data, helping users to digitize color management.

Free PC Software

With PC software, it has a stronger color difference statistical analysis function, and can import and export instrument storage data.

Full Spectrum LED Light Source

The full-spectrum LED light source ensures sufficient spectral distribution in the visible light range, effectively avoiding the spectrum loss of traditional LED light sources in specific bands, and providing more accurate measurement results.

D/8 Measuring Geometry

The instrument adopts the internationally accepted D/8 illumination method, including specular reflection light (SCI), which has a very wide range of applications.



Biolab Scientific Ltd.

Trillium Executive Center, East Tower, 675 Cochrane Dr, Markham, Ontario L3R 0B8, Canada

Email: info@biolabscientific.com | Website: www.biolabscientific.com