



LARGE APERTURE SPECTROCOLORIMETER BKH-701

COLORIMETER BKH-701

LARGE APERTURE SPECTROCOLORIMETER

It is a large aperture spectrophotometer that adopts D/8 illumination geometry, with 50mm large test aperture, specialized in color measurement and color comparison of non-transparent materials such as powder, masterbatches and so on. The spectrophotometer not only has various color spaces and color difference formulas, but also can display spectral reflectance curves, which is widely used in color management and quality control in the fields of paint, plastic, food, medicine and so on. The colorimeter also provides professional mobile APP and PC software to support data export and report printing.



50mm large aperture

Measuring aperture up to 50mm, especially suitable for color difference measurement of objects with rough surfaces such as masterbatches, powders and rough fabric.

Display of spectral reflectance curves

Using full-spectrum LED light source and advanced spectral sensors to provide professional spectral reflectance curves, providing more professional color data for color measurement, from which information such as hue, saturation, depth, etc. can be obtained.

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

High precision and excellent repeatability with standard deviation $\Delta E^*ab \leq 0.03$. It can pass the test of an authoritative metrology institute.

SPECIFICATIONS

Model	BKH-701
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	50mm
Measurement conditions	Light source D65, field of view 10°
Measuring time	About 1.5s
Color space	CIE Lab, Luv, LCh, Yxy, CMYK, RGB, WI-98, WI-Ganz, WI-Hunter, YI-98, WI-R457, Reflectance
Color difference formula	ΔE^*ab , ΔE^*uv , ΔE^*94 , $\Delta E^*cmc(2:1)$, $\Delta E^*cmc(1:1)$, ΔE^*00 , $\Delta E^*cmc(1:1)$, $\Delta E^*cmc(1.4:1)$
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	21.1 x 26.4 x 15.5cm (LxWxH)
Weight	About 3.29kg
Power supply	100~277V 0.4A 50/60HZ
Display	7-inch 1024*600 dot matrix IPS color screen
Language	Simplified Chinese, English, Turkey
Data transmission	USB, Bluetooth
Operating temperature range	0~45°C, 0~85%RH (no condensation)
Storage temperature range	-25~55°C, 0~85%RH (no condensation)
Alt Name	Large Aperture Spectrophotometer

FEATURES

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Free special plastic cuvettes

It is equipped with special plastic cuvettes for the measurement of masterbatches, powder and opaque liquid.

Simple operation, two-step color difference measurement

Measure color difference with two clicks on the 7-inch color touch screen for extremely simple operation.

Provide QC function

It has QC function which can set the color difference threshold by yourselves, and it will automatically judge whether the color difference is qualified or not.

Multiple parameters measurement

Multi parameters including CIE Lab, Luv, LCh, Yxy, CMYK, RGB, WI-98, WI-Gauz, WI-Hunter, YI-98, WI-R457, Spectral reflectance curve.

Built-in multiple universal electronic color charts

The colorimeter is built-in multiple universal electronic color charts, which can quickly match the closest color chart number during color measurement with accuracy greater than 90%.

Cell phone App is more functional

It can share and export the color data by connecting to the mobile phone APP.

Provide PC software, support data import and export

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



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