BioLAB

PRODUCT CATALOG

HANDHELD SPECTROPHOTOMETER BHSP-904

CE ISO9001 CERTIFIED

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HANDHELD SPECTROPHOTOMETER BHSP-904

Handheld Spectrophotometer is suitable for transmission of various solids colour analysis, fluorescent sample and scientific research.

BHSP-904 HANDHELD SPECTROPHOTOMETER

Silicon photodiode array (double row 32 groups)

Adopt D/8 structure and SCI/SCE mode

Combination of full spectrum LED light source and UV light source

Equipped with five apertures

Camera positioning

Non-contact automatic calibration, professional imported white board, more wear-resistant, dirty, stable

Place the base safely to ensure that the whiteboard is not dirty.

Offer 10 kinds of color measurement space and 41 kinds of observation light source

Support Huawei Harmony OS, Android, IOS, Wechat applets, Windows programs

SPECIFICATIONS

Model	BHSP-904
Optical Geometry	Reflectance: D/8(Diffuse illumination, 8° acceptance) SCI&SCE; Include UV/Exclude UV
Standards compliant	CIE No.15,GB/T 3978,GB 2893,GB/T 18833,ISO7724-1,ASTM E1164,DIN5033 Teil7
Integrating Sphere Size	Φ 40mm
Light Source	Combined full spectrum LED light source, UV light source
Spectroscopic Method	Flat Grating
Silicon Photodiode array	Double row 32 groups
Spectral Range	360~780nm
Wavelength Pitch	10 nm
Photometric range	0-200 %
Measurement Aperture	5 apertures: MAV:Φ8mm/Φ10mm；SAV:Φ4mm/Φ5mm;LAV:1x3mm
Specular Component	SCI&SCE
color spaces	CIE LAB,XYZ,Yxy,LCh,CIE LUV,s-RGB,HunterLab,βxy,DIN Lab99,Munsell(C/2)
Color Difference Formula	ΔE*ab,ΔE*uv,ΔE*94,ΔE*cmc(2:1),ΔE*cmc(1:1),ΔE*00, DINΔE99,ΔE(Hunter)
Other Colorimetric Index	Spectral reflectance,WI(ASTM E313,CIE/ISO, AATCC, Hunter, TaubeBergerStensby),YI(ASTM D1925,ASTM 313), Metamerism Index MI,Staining Fastness, Color Fastness, Color Strength, Opacity,8° Glossiness,555 tone classification, Carbon (My,dM), color density CMYK(A,T,E,M), Tint, Munsel chroma index (part of the function is realized by PC software)
Observer angle	2° / 10°

Illuminant	D65,A,C,D50,D55,D75,F1,F2(CWF),F3,F4,F5,F6,F7(DLF),F8,F9,F10(TPL5),F11(TL84),F12(TL83/U30),B,U35,NBF, ID50,ID65,LED-B1,LED-B2,LED-B3,LED-B4,LED-B5,LED-BH1,LED-RGB1,LED-V1,LED-V2,LED-C2,LED-C3,LED-C5, able to customized light source (total 41 kinds of light source, Partially realize through the PC software /APP software)
Displayed Data	Spectrogram/Values, Samples Chromaticity Values, Color Difference Values/Graph, PASS/FAIL Result, Color simulation, Color bias
Measurement Time	About 1.5s
Repeatability	Chromaticity value: MAV/SCI, within ΔE*ab 0.02 (When a white calibration plate is measured 30 times at 5 second intervals after white calibration) Spectral reflectance: MAV/SCI, Standard deviation within 0.08% (400 nm to 700 nm: within 0.18%)
Inter-instrument agreement	MAV/SCI, Within ΔE*ab 0.15 (Average for 12 BCRA Series II color tiles)
Display accuracy	0.01
Measurement mode	Single measurement, Average measurement (2-99 times)
Locating Method	Camera Locating,stabilizer cross position
Battery	Lithium battery, 8800 measurements within 8 hours
Life lamp	More than 1.5 million measurements in 10 years
Screen	3.5-inch TFT color LCD, Capacitive Touch Screen
Interface	USB, Bluetooth
Data Storage	Standard 1000 Pcs, Sample 30000 Pcs(one data can include SCI/SCE at the same tome), APP/PC mass storage
Software support	Andriod,IOS,Windows,Harmony OS,Wechat applets
Language	Simplified Chinese, English, traditional Chinese
Standard Accessories	Power Adapter, User Guide, PC Software(Download from office website), USB cable, White and Black Calibration Cavity, Protective Cover, Wrist strap, five aperture
Dimension	129(L)X76(W)X217(H)mm
Weight	Approx 600g

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