



# BENCHTOP SPECTROPHOTOMETER BBSP-808

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## PORTABLE DESKTOP SPECTROPHOTOMETER

This Portable Desktop Spectrophotometer Brings LabGrade Accuracy to Your Workbench. It is developed with core spectroscopic technology, and is a gamechanger in color measurement. Three apertures to meet more application requirements, when strict interinstrument delta E ( $\Delta E$ ) is required, benchtop spectrophotometers are an ideal choice.



Adopt international common use D/8,SCI/SCE Synthesis technology;  
 Silicon photodiode array sensor (40 groups with double rows);  
 A variety of color space, a variety of observation light sources;  
 Adopt combination full spectrum LED lamp and UV lamp Each;  
 Camera locating can clearly observe the measured area;  
 Industrialgrade HD touch screen, easy to use user interface;  
 Color management software;  
 Optional Accessory  
 Adopt international common use d/8 SCI/SCE Synthesis technology;  
 Spectrocolorimeter adopts D/8(diffused illumination, 8degree viewing angle) which is widely applicable in the world, and SCI/SCE (specular component included/specular component excluded) Synthesis technology, supporting SCI+SCE simultaneous

## SPECIFICATIONS

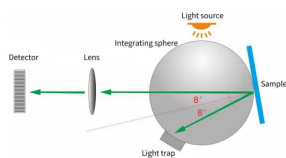
Model	BBSP-808
Optical Geometry	D/8 (diffuse illumination, 8° acceptance); SCI&SCE; Include UV/Exclude UV
Standards Compliant	CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ISO77241, ASTM E1164, DIN5033 Teil7
Integrating Sphere Size	Φ40 mm
Light Source Device	Combined LED Lamp
Spectroscopic Method	PlaneGrating
Sensor	Silicon photodiode array (40 groups)
Spectral Range	400-700 nm
Wavelength Pitch	10 nm
Semibandwidth	10 nm
Photometric Range	0-200%
Measurement Aperture	Customized single caliber: MAV: Φ8 mm/Φ10 mm; SAV: Φ4 mm/Φ5 mm
Lightincluded Mode	Both SCI & SCE modes
Color Spaces	CIE LAB, XYZ, Yxy, LCh, CIE LUV, sRGB, βxy, Munsell (C/2)
Color difference formulas	$\Delta E^*ab$ , $\Delta E^*uv$ , $\Delta E^*94$ , $\Delta E^*cmc(2:1)$ , $\Delta E^*cmc(1:1)$ , $\Delta E^*00$
Other Colorimetric Data	WI (ASTM E313, CIE/ISO, AATCC, Hunter); YI (ASTM D1925, ASTM 313); Staining Fastness, Color Fastness, Color Strength, Opacity, 8° gloss, 555 Index
Observer	2° / 10°
Illuminant	D65, A, C, D50, F2 (CWF), F7 (DLF), F10 (TPL5), F11 (TL84), F12 (TL83/U30)
Displayed Data	Spectrogram/Values, Chromaticity Values, Color Difference Values/Graph, PASS/FAIL Result, Color Offset
Measurement Time	About 1.5 s (simultaneous SCI/SCE about 3.2 s)
Repeatability	Within $\Delta E^*ab$ 0.025 (postcalibration 30x white plate at 5 s intervals)
Interinstrument agreement	MAV/SCI within $\Delta E^*ab$ 0.20 (avg for 12 BCRA Series II tiles)
Measurement method	Single measurement; average measurement (2-99 times)
Locate Mode	Display camera locating
Size (LxWxH)	370 x 240 x 260 mm
Weight	About 7.8 kg

Battery Performance / Power	DC 24 V, 3 A Power Adapter
Lamp Life	5 years; >3 million times measurements
Screen	7" TFT capacitive screentouch display
Interface	USB, Trigger switch interface
Data storage	Standard: 1000 pcs; Sample: 20000 pcs (one PCS can include both SCI & SCE)
Languages	Chinese, English, Traditional Chinese
Standard Accessories	Power Adapter, USB Cable, User Guide, PC Software (download from website), Calibration Board
Measuring caliber	Choose
Optional Accessories	Mini printer, foot switch, rotating bracket
Alt Name	Portable Desktop Spectrophotometer

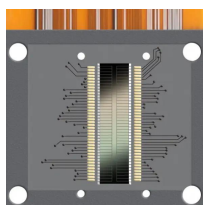


## FEATURES

Adopt international common use D/8,SCI/SCE Synthesis technology;  
 Silicon photodiode array sensor (40 groups with double rows);  
 A variety of color space, a variety of observation light sources;  
 Adopt combination full spectrum LED lamp and UV lamp Each;  
 Camera locating can clearly observe the measured area;  
 Industrialgrade HD touch screen, easy to use user interface;  
 Color management software;  
 Optional Accessory

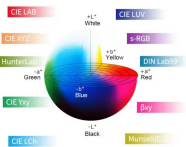


Adopt international common use d/8 SCI/SCE Synthesis technology:  
 Spectrocolorimeter adopts D/8(diffused illumination, 8degree viewing angle) which is widely applicable in the world, and SCI/SCE (specular component included/specular component excluded) Synthesis technology, supporting SCI+SCE simultaneous rapid measurement, and the test time is about 3.2 seconds.



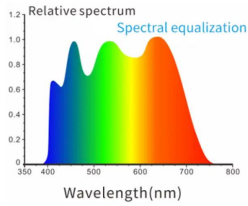
Silicon photodiode array sensor (40 groups with double rows):  
 Double 40 array sensor with larger area, high light saturation, high sensitivity of low light and wide spectral response range ensure the measurement speed, accuracy, stability and consistency of the instrument.

## SUPPORT 10 COLOR SPACES



A variety of color space, a variety of observation light sources:

Portable desktop spectrophotometer color measurement instrument provides CIE LAB, XYZ, Yxy, LCh, CIE LUV, s RGB, HunterLab,  $\beta xy$ , DIN Lab99, Munsell (C / 2) color space, and D65, A, C, D50, D55, D75, F1, F2 (CWF), F3, F4 and F5, F6 and F7 (DLF), F8, F9, F10 (TPL5), and F11 (TL84), F12 (TL83 / U30) light sources, which can meet the special measurement requirements under different measurement conditions.



Adopt combination full spectrum LED light source and UV light source each:

Full band balanced LED light source ensures sufficient spectral distribution in visible light range, avoids the spectral loss of white LED in specific band, ensures the accuracy of instrument measurement speed and measurement results, and professional UV light source ensures more reliable UV testing.



Camera locating can clearly observe the measured area:

Spectrophotometer has a builtin camera for positioning, which can accurately determine whether the measured part of the object is the center of the target through realtime viewing by the camera, thus improving the measurement efficiency and accuracy.



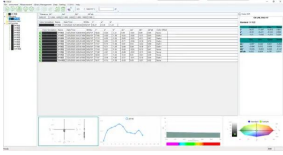
Calibration Certificate:

A spectrophotometer has been verified and tested. After leaving the factory, each instrument is verified according to the measurement standards of authoritative verification departments, and the measurement data are traceable to the National Metrotechnical Institute to ensure the authority of the instrument test data.



Industrialgrade HD touch screen, easy to use user interface:

Using a 7inch industrial grade hd touch screen, smooth operation, the user interface is easy to use and it makes the operation become comfortable and convenient.



Color management software:

SQCX quality management software with spectrophotometer is suitable for quality monitoring and color data management in various industries. Data the user's color management, compare color differences, generate test reports, provide multiple color space measurement data, and customize the customer's color management.

## APPLICATIONS

Portable desktop spectrophotometer color measurement instrument equipped with customized single aperture  $\Phi 4\text{mm}$  or  $\Phi 8\text{mm}$ , good for horizontal or vertical measurement, wider adaptability, suitable for precise color measurement and quality control in textile and garment printing and dyeing, plastic electronics, ceramics and other industries.



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