



BENCHTOP SPECTROPHOTOMETER BBSP-806

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NONCONTACT BENCHTOP SPECTROPHOTOMETER

The unique and innovative design can not only provide noncontact measurement solutions directly from the production line, It can also ensure stable and high-precision measurement results.



Noncontact, 45 / 0 geometric optical structure to measure the reflectance and chromaticity of objects;
 The movable measuring head moves up and down according to the actual height of the measured object;
 Large touch screen measurement interface, realtime display of measurement data, to realize more measurement functions;
 Multiple measurement modes (sample, quality control, continuous statistical mode) can be selected to meet the personalized needs.

SPECIFICATIONS

Model	BBSP-806
Optical Geometry	45/0 (45° ring uniform illumination, 0° accept)
Standards Compliant	CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ISO 7724-1, ASTM E1164, DIN 5033 Teil 7
Light Source Device	360-780 nm Combined LED Lamp
Spectroscopic Method	Concave-grating
Sensor	256 Image Element Double arrays CMOS Image Sensor
Spectral Range	400-700 nm / 10 nm output
Sample distance	>7.5 mm
Height adjustment	Manual adjustment (the test height can be stored)
Height range	0-150 mm
Photometric Range	0-200 %
Integrating Sphere Size	Φ20 mm
Measurement mode	Sample mode; Quality control mode; Continuous statistical mode
Locate Mode	Display camera locating
Color Spaces	CIE LAB, XYZ, Yxy, LCh, CIE LUV, HunterLAB
Color difference formulas	ΔE^*ab , ΔE^*uv , ΔE^*94 , $\Delta E^*cmc(2:1)$, $\Delta E^*cmc(1:1)$, ΔE^*00 , ΔE (Hunter)
Other Colorimetric Data	WI (ASTM E313, CIE/ISO, AATCC, Hunter); YI (ASTM D1925, ASTM 313); MI (Metamerism Index); Staining Fastness; Color Fastness; Color Strength; Opacity
Observer	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)
Displayed Data	Spectrogram/Values, Chromaticity Values, Color Difference Values/Graph, Pass/Fail Result, Color Offset
Measurement Time	About 1.5 s
Repeatability (Spectral reflectance)	Std. dev. within 0.08 % (400-700 nm: within 0.18 %)
Repeatability (Chromaticity value)	Within ΔE^*ab 0.03
Inter-instrument agreement	Within ΔE^*ab 0.25 (Average for 12 BCRA Series II color tiles)
Measurement method	Single measurement; Average measurement (2-99 times)
Size (LxWxH)	330 x 250 x 370 mm

Weight	About 10 kg
Battery Performance / Power	DC 24 V, 3 A power adapter
Life Lamp	5 years, >3 million measurements
Screen	7" TFT capacitive touch display
Interface	USB
Data storage	Sample mode+ QC mode: 30,000; Continuous statistics: 10,000
Languages	English & Chinese
Operating Environment	Temperature: 0-40 °C; Humidity: 0-85 % (No condensation)
Storage Environment	Temperature: -20-50 °C; Humidity: 0-85 % (No condensation)
Standard Accessories	Power Adapter, USB Cable, User Guide, PC Software (download), Standard calibration plate, Black calibration board
Optional Accessories	Micro Printer, Powder test box
Alt Name	NonContact Benchtop Spectrophotometer



APPLICATIONS

A 45/0 non contact benchtop spectrophotometer can achieve precise non contact measurement between the measuring probe and the sample like liquids, sauces, powders, etc. It can be applied for accurate color analysis and transmission In laboratories and R & D industries; It can also be used for accurate color measurement and quality control of automated production lines; It is widely used in cosmetics, fruits and vegetables, food hygiene, plastic electronics, paint and ink, printing, ceramics and other industries, and also for fluorescence sample measurement.



Cosmetics



Food



Sauces



Powder



Liquid



Laboratory



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