



BENCHTOP SPECTROPHOTOMETER BBSP-804

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BENCHTOP GRATING SPECTROPHOTOMETER

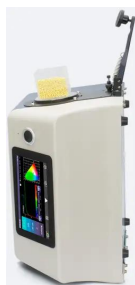
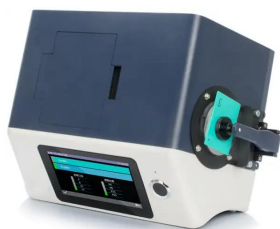
It is a benchtop grating spectrophotometer. It has many features, like 7 inches TFT capacitive touch screen display, full illuminants, reflective d/8 and transmissive d/0 geometry(including or excluding UV). With very stable and precise color measurement, large storage and powerful PC software all makes it ideal for color analysis within R&D and laboratory environments.



SPECIFICATIONS

Model	BBSP-804
Optical Geometry	Reflectance: d/8 (SCI&SCE; Include UV/Exclude UV) Transmittance: d/0 (SCI&SCE; Include UV/Exclude UV); Conforms to CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ISO7724/1, ASTM E1164, DIN5033 Teil7
Integrating Sphere Size	Φ154 mm
Illuminant	360 nm-780 nm Combined LED Lamp, 400 nm cutoff
Sensor	256 Image Element Double Array CMOS Image Sensor
Wavelength Pitch	10 nm
Semiband Width	5 nm
Reflectance Range	0-200%
Measuring Aperture	Reflective: Φ30 mm/Φ25.4 mm, Φ10 mm/Φ8 mm, Φ6 mm/Φ4 mm; Transmissive: Φ30 mm/Φ25.4 mm;
Specular Component	Reflectance: SCI & SCE Transmittance: SCI & SCE
Color Space	CIE LAB, XYZ, Yxy, LCh, CIE LUV, sRGB, HunterLab, βxy, DIN Lab99
Color Difference Formula	ΔE ab, ΔE uv, ΔE 94, ΔE cmc(1:1), ΔE 00, DINΔE99, ΔE(Hunter)
Colorimetric Index	WI (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D1925, ASTM 313), MI (Metamerism Index), Staining Fastness, Color Fastness, Color Strength, Opacity, 8° Glossiness, Gardner Index, APHA/ PtCo Index, 555 Index, Haze (ASTM D1003), Saybolt, Color code (ASTM D1500)
Observer	2° / 10°
Illuminants	D65,A,C,D50,D55,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12,CWF,DLF,TL83,TL84,TPL5,U30
Displayed Data	Spectrogram/Values, Chromaticity Values, Color Difference Values/Graph, PASS/FAIL Result, Color Offset
Measurement time	About 2.4 s (simultaneous measurement SCI/SCE about 5 s)
Repeatability	Standard deviation within 0.05%;Standard deviation within ΔE*ab 0.02;Standard deviation within ΔE*ab 0.03
Interinstrument Error	Φ25.4 mm/SCI Within ΔE*ab 0.15
Size	370x300x200 mm
Weight	
Power Supply	
Light Source Device Life	5 years; more than 3 million times measurements.
Screen	7" TFT Capacitive Screentouch Display
Data Port	USB

Data Storage Capacity	Standard: 2000 Pcs; Sample: 20000 Pcs.
Language	Simplified Chinese, Traditional Chinese, English (Optional customized German, French and Spanish)
Working Environment	Temperature: 0-40°C; Humidity: 0-85% (No Condensation)
Storage Environment	Temperature: -20-50°C; Humidity: 0-85% (No Condensation)
Standard Accessory	Power Adapter, User Guide, CD Disk (PC Software), USB cable, Standard Calibration Board, Black Calibration Cavity, Transmission black baffle, Sample holder, 25.4 caliber, 8 caliber, 4 caliber
Optional Accessory	Microprinter, Transmissive Test Component, Instrument inversion components, culture dish
Alt Name	Benchtop Grating Spectrophotometer



APPLICATIONS

A benchtop spectrophotometer is used to do precise color analysis and transmission in laboratories, allowing the user to color measurement most applications including powders, liquids, gels, pastes, granules and solid materials. It can be widely applied in different industries, such as plastics, electronics, paint and ink, printing, garments, leather, paper, auto, medical, cosmetics, food, science institutes, laboratories.



Plastic



Hardware



Printing



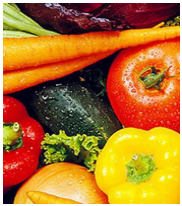
Paint



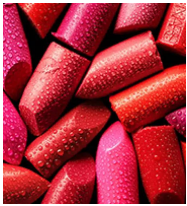
Textile



Laboratory



Food



Cosmetics

A benchtop spectrophotometer is used to do precise color analysis and transmission in laboratories. It can be widely applied in different industries, such as plastics, electronics, paint and ink, printing, garments, leather, paper, auto, medical, cosmetics, food, science institutes, laboratories.



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