



BENCHTOP SPECTROPHOTOMETER BBSP-802

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Benchtop Spectrophotometer is used for measuring the color and appearance of fluorescent, opaque, transparent and translucent samples under various illuminants

BBSP-802 BENCHTOP SPECTROPHOTOMETER

Double Array 256 Image Element CMOS Sensor; Long life-span stable LED UV LED.

With reflective and transmissive spectrum, accurate Lab value, good to calculate color formula and do precise color transmission.

Auto identify measuring aperture. Freely switchable between 3 measuring apertures: Φ 25.4mm/8mm/4mm. Users also can customize apertures.

Built-in temperature sensor to monitor and compensate the measuring temperature to ensure the measurement more precision.

Wavelength range 360nm - 780nm. Built-in 400nm/420nm/460nm cut off Xenon lamp, more professional in UV measurement.

Independent light source detector, continuously monitor the condition of light sources to ensure the light source reliable.

Multiple measurement modes: Quality Management Mode, Sample Mode; Meet more users' requirement.

More powerful extended functions at the PC software.

SPECIFICATIONS

Model	BBSP-802
Illuminant	360nm-780nm Xenon lamp, 400 nm cut-off
Sensor	256 Image Element Double Array CMOS Image Sensor, Concave-grating
Wavelength Pitch	10 nm
Semiband Width	10 nm
Reflectance Range	0-200%
Measuring Aperture	Reflective: Φ 30mm/ Φ 25.4mm, Φ 10mm/ Φ 8mm, Φ 6mm/ Φ 4mm; Transmissive: Φ 25.4mm;
Integrating Sphere Size	Φ 154mm
Optical Geometry	Reflection: d/8°(diffused illumination, 8-direction reception); Transmission: d/0° (diffuse illumination: 0° direction reception); SCI/SCE measurement Include UV / excluded UV measurement Haze(ASTM D1003);
Standards compliant	CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ISO7724/1, ASTM E1164, DIN5033 Teil7
Specular Component	Reflectance: SCI&SCE Transmittance: SCI&SCE
Color Space	CIE Lab, XYZ, Xxy, LCh, CIE LUV, Hunter LAB, Munsell, s-RGB, HunterLab, DIN, β xy
Color Difference Formula	ΔE_{ab} , ΔE_{uv} , ΔE_{94} , $\Delta E_{cmc}(2:1)$, $\Delta E_{cmc}(1:1)$, ΔE_{00v} , ΔE_{Hunter}
Colorimetric Index	WI (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D1925, ASTM 313), Mt (Metamerism Index), 8°Gloss Staining Fastness, Color Fastness, Color Strength, Opacity, Gardner Index, Pt-Co Index, 555 Index, Haze (ASTM D1003)
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 2.4s (Measure SCI & SCE about 5s)
Repeatability	Spectral reflectance: Φ 25.4mm/SCI, Standard deviation within 0.07% Chromaticity value: Φ 25.4mm/SCI, Standard deviation within ΔE^*ab 0.015 Spectral Transmittance: Φ 25.4mm/SCI, Standard deviation within 0.07% Chromaticity value: Φ 25.4mm/SCI, Standard deviation within ΔE^*ab 0.15
Inter-instrument Error	Φ 25.4mm/SCI, Within ΔE^*ab 0.12 (Average for 12 BCRA Series II color tiles)
Working Environment	Temperature: 0~40°C; Humidity: 0~85% (No Condensation)
Storage Environment	Temperature: -20~50°C; Humidity: 0~85% (No Condensation)

Language	English and Chinese
Data Storage capacity	Standard 2000 Pcs, Sample 20000 Pcs
Light Source Device Life	5 years, more than 3 million times measurements.
Screen	7" TFT Capacitive Screen-touch Display
Data Port	USB, print serial port
Standard Accessory	Black Calibration Board, Standard calibration plate, Sample Holder, $\Phi 4\text{mm}$, $\Phi 8\text{mm}$, $\Phi 25.4\text{mm}$ Aperture, Power Adapter, USB Cable, User Guide, PC Software Fixing frame, Transmission blackboard
Optional Accessory	Micro printer, transmission test component, micro hole (4mm) transmission component, instrument inversion component
Size	370x300x200 mm
Weight	About 9.6kg
Power Supply	DC 24V, 3A Power Adapter



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