

# BENCHTOP SPECTROPHOTOMET ER SPE71-780



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

## SPE71-780 BENCHTOP SPECTROPHOTOMETER

Non-contact, 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, real-time 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	SPE71-780
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)
Sensor	256 Image Element Double Array CMOS Image Sensor
Light Source Device	360nm -780nm Combined LED Lamp
Spectroscopic Method	Concave-grating
Spectral Range	400-700nm/10nm Output
Sample Distance	>7.5mm
Height Adjustment	Manual adjustment (the test height can be stored)
Optical Geometry	45/0(45°Ring uniform illumination,0°accept)
Standards compliant	CI EN o.15, GB/T 39T8,GB 2893,GB/T 18833, ISOT724-1,ASTM E1164, DIN5033 TeilT,GB 2893. GB/T 18833
Height range	0~150mm
Photometric Range	0~200%
Integrating Sphere size	Φ20mm
Measurement mode	Sample mode, quality control mode, continuous statistical mode
Locate Mode	Display camera locating
Color Space	CIE LAB,XYZ,Yxy, LCh,CIE LUV, Hunte rLAB
Color difference formulas	$\Delta E^*_{ab}$ , $\Delta E^*_{uv}$ , $\Delta E^*_{94}$ , $\Delta E^*_{cmc}(2:1)$ , $\Delta E^*_{cmc}(1:1)$ , $\Delta E^*_{00}$ , $\Delta E$ (Hunter)
Other Colorimetric Data	WI(ASTM E313,CIE/ISO,AATCC,Hunter),YI(ASTM D1925,ASTM 313),TI(ASTM E313,CIE/ISO), Metamerism Index MI, Staining Fastness, Color Fastness, Color Strength, Opacity
Observer	2° / 10°
Displayed Data	Spectrogram/Values, Chromaticity Va lues, Color Difference Values/G ra ph, Pass/Fail Result, Color Offset
Measurement time	About 1.5 s
Repeatability	Spectral reflectance:Standard deviation within 0.08% (400 to 700nm: within 0.18%) Chromaticity value:within $\Delta E^*_{ab}$ 0.03
Inter-instrument Error	Within $\Delta E^*_{ab}$ 0.2(Average for 12 BCRA Series II color tiles)
Measurement method	measurement, average measurement (2-99 times) 330 (L)
Life Lamp	5 years, more than 3 million times measurements.

Screen	7" TFT Capacitive Screen-touch Display
Interface	USB
Data Storage	Sample mode + quality control mode 40000; continuous statistics mode 10000
Language	English and Chinese
Operating 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,USB Cable,User Guide,PC Software(Download from website),Standard calibration plate, Black Calibration Board
Optional Accessory	Micro Printer,Powder test box

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