



# PORTABLE SPECTROCOLORIMETER BPSP-1104

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Portable Spectrocolorimeter is a portable instrument designed to measure transmittance of sample and color measurement.

## BPSP-1104 PORTABLE SPECTROCOLORIMETER

Adopt international common use d/8 SCI/SCE Synthesis technology  
Adopt full waveband balanced LED light source  
Silicon photodiode array sensor (32 groups with double rows)  
A variety of color space, a variety of observation light sources  
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Ergonomic design and easy measuring device  
Pass the Calibration Certificate  
ETC real-time calibration technology  
Camera locating can clearly observe the measured area  
Color management software

## SPECIFICATIONS

| Model                      | BPSP-1104   |
|----------------------------|---|
| Optical Geometry           | D/8° diffused illumination, 8-direction reception   |
| Integrating Sphere Size    | Φ 40mm  |
| Light source device        | Combined LED lamp   |
| Spectroscopic Method       | Flat Grating  |
| Sensor                     | Silicon photodiode array ( dual arrow 24 groups)  |
| Light wave range           | 400-700nm   |
| Wavelength Pitch           | 10 nm   |
| Measured Reflectance Range | L:0~100; reflectivity:The reflectivity can be measured at 1 specific wavelength specified by the user (default: 550nm)  |
| Measuring Aperture         | Φ8mm  |
| Specular Component         | SCI   |
| color space                | CIE LAB,XYZ,Yxy,Lch   |
| Color Difference Formula   | $\Delta E^*ab, \Delta E^*00$  |
| Observer angle             | 10°   |
| Illuminant                 | D65,A,F2(CWF)   |
| Displayed Data             | Reflectance (the user specifies the reflectivity at 1 specific wavelength), Samples Chromaticity Values, Color Difference Values/Graph, PASS/FAIL Result, Color Simulation, Color deviation |
| Displayed Accuracy         | 0.1   |
| Measuring Time             | About 1.5s  |
| Repeatability              | Chromaticity value: MAV/SCI, within $\Delta E^*ab$ 0.1 ( When a white calibration plate is measured 30 times at 5 second intervals after white calibration)                                 |
| inter-instrument error     | MAV/SCI, Within $\Delta E^*ab$ 0.4(Average for 12 BCRA Series II color tiles)   |
| Measurement mode           | Single Measurement, Average Measurement(2-99times)  |
| Locating Method            | Stabilizer cross position   |
| Operating Environment      | 0~40°C, 0~85%RH (no condensing), Altitude < 2000m   |
| Storage Environment        | -20~50°C, 0~85%RH (no condensing)   |
| Battery                    | Li-ion battery, 6000 measurements within 8 hours  |
| Illuminant Life Span       | 5 years, more than 3 million times measurements   |

|                      |  |
|----------------------|--|
| Display              | 3.5-inch TFT color LCD, Capacitive Touch Screen  |
| Data Port            | USB charging software is not supported   |
| Data Storage         | Standard 500 Pcs, Sample 10000 Pcs   |
| Language             | Chinese, English, traditional Chinese  |
| Standard Accessories | Power Adapter,data Cable, manual, SQCX quality, management Software(Download from office website), White and Black Calibration Cavity, Protective Cover, Wrist strap, 8mm platform caliber |
| Optional Accessory   | USB Micro Printer, Powder Test Box   |
| Dimension            | 81X71X214mm  |
| Weight               | About 460g   |



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