WSC-1B / WSC-2B / WSC-3B Portable Colorimeter

- Characteristics

 The instrument fully considered the user experience. Adopting humanized design concept make the measurement easier.

 Adopting creative facula locating and cross locating make the measurement conveniently, quickly and accurately.

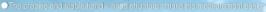
 Small measuring aperture easy to measure concave convex object.

 No need to calibrate each time which simplify the operation.

 New integrating sphere optical path design improve measurement stability and precision.

 This colorimeter has various spaces. The user can select it according to their needs. And the instrument can display Whiteness, Yellowness and Color Fastness which is used widely.

 The precise and stable hand head structure t make the measurement easier.





Specifications

| Model | WSC-1B | WSC-2B | WSC-3B |
|---|---|--|--|
| Display Mode | CIEL*a*b*C*h*; CIEL*a*b*; CIEXYZ | CIE L*a*b *C*H* ; CIE L*a*b | CIE L*a*b; CIE XYZ; CIE RGB;CIEL*u*v; CIE*C*H; Whiteness &Yellowness ColorFastness |
| Color Difference Formula | ΔE*ab; ΔL*a*b*; ΔE*C*h* | ΔE*ab; ΔL*a*b*; ΔE*C*h* | ΔE*ab; ΔL*ab; ΔE*C*H; ΔECIE94; ΔEHunter |
| Illuminating/viewing geometry | 8/d | 8/d (8° illumination angle/diffuse viewing) | 8/d (8° illumination angle/diffuse viewing) |
| Light Source | LED blue light excitation | LED blue light excitation | LED blue light excitation |
| Detector | Silicon photoelectric diode | Silicon photoelectric diode | Silicon photoelectric diode |
| Measuring Aperture | Φ4mm | Φ8mm | Φ8mm; Φ4mm; Φ8mm extended aperture (optional) |
| Measuring Conditions | D65 | Observer: CIE 10° Standard Observer Illuminant: CIE Standard Illuminant D65 | Observer: CIE 10° Standard Observer Illuminant: CIE Standard Illuminant D65; D50; A |
| Measuring Range | | L: 0 to 100 | L: 0 to 100 |
| Repeatability | Standard deviation within ∆E*ab 0.07 (Measurement Conditions: Average of 30 measurements of standard white plate) | Standard deviation within ∆E*ab 0.06 (Measurement Conditions: Average of 30 measurements of standard white plate) | Standard deviation within ΔE^* ab 0.06 (Measurement Conditions: Average of 30 measurements of standard white plate) |
| Storage | 100 pcs standard samples; 20000 pcs test samples | 100 pcs standard samples; 20000 pcs test samples | 100 pcs standard samples; 20000 pcs test samples |
| Minimum Interval Between Measurement | Approx. 1 sec | Approx. 1 sec | Approx. 1 sec |
| Battery Life | More than 3000 times | More than 3000 times | More than 3000 times |
| Lamp Life | 3 years, more than 1.6 million times | More than 1.6 million times in 5 years | More than 1.6 million times in 5 years |
| Display | TFT True Color 2.8inch@ (16:9) | TFT True-color; 2.8 inch@(16:9) | TFT True-color; 2.8 inch@(16:9) |
| Interface | USB RS232 | Model B: USB RS-232: Baud rate 19200bps | Model B: USB RS-232: Baud rate 19200bps |
| Operating Temperature Range | -10~40°C (32 F ~104 F) | -10~40°C (32 F ~104 F) | -10~40°C (32 ₹~104 ₹) |
| Storage Temperature | -20~50°C (-4 ~122 F) | -20~50°C (-4 ~122 F) | -20~50°C (-4~122 F) |
| Humidity Range | Relative humidity 0~85% with no condensation | Relative humidity 0~85% with no condensation | Relative humidity 0~85% with no condensation |
| Weight | 450g | 500g | 500g |
| Dimensions | 205mm x 67mm x 80 mm | 205mm x 70mm x 100 mm | 205mm x 70mm x 100 mm |
| Size of the Packing | | 435mm x 205mm x 345mm | 435 x 205 x 345mm |
| Standard Accessories | Powder adapter, Li-ion battery, operating instruction, white calibration cover, wristband, cross platform, 4mm measuring aperture, software, USB cable, 4mm aperture for small concave-convex surface | AC Adapter; Li-ion Battery; Operation Manual; Software CD; USB Cable; White Calibration Cover; Φ8mm Measuring Aperture Mini-printer; Printer Cable | AC Adapter; Li-ion Battery; Operation Manual; Software CD; USB Cable; White Calibration Cover, Φ8mm Measuring Aperture Mini-printer; Printer Cable; Φ4mm Measuring Aperture |
| Operation Accessories | Miniature thermal printer | | Extended Aperture(\$\Phi 8mm); Mini-printer; Printer Cable, Universal Test Components, Powder Test Box |