



SPECTRODENSITOMETER BJDH1K3 (BSDM-1303)

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SPECTRODENSITOMETER

Grating Spectrophotometer Densitometer with 45/0(45 ringshaped illumination, 0 degree viewing angle). It is suitable for use in ink printing, in Film Processing, Textile Printing and Dyeing, Plastic Electronics and Other Industries for Color Measurement and Quality Control.

45/0 geometrical optics structure, comply with CIE

Reflectance spectrum, CMYK density and Lab

3.5inch TFT truecolor screen, capacitive touch screen, concave grating

Ergonomic structure design

Φ2/4/8mm Optional apertures



Perfect combination of the beautiful appearance and the ergonomic structure design;

Combined LED light sources with long life and low power consumption, including UV light;

Optional apertures: Φ2/4/8mm, adapt to more samples;

Accurately measure reflectance spectrum, CMYK density and Lab value of the sample;

High configuration electronic hardware: 3.5inch TFT truecolor screen, capacitive touch screen, concave grating, 256pixel dualarray CMOS image sensor, etc.;

Two standard observer angles: 2°/10°, multiple light source modes and color systems;

USB mode is widely useful;

SPECIFICATIONS

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|---------------------------------|---|
| Model | BJH1K3 |
| Old Model | BSDM-1303 |
| Optical Geometry | 45/0 (45° ringshaped illumination, 0° viewing angle) |
| Standards compliant | ISO 54, CIE No.15 |
| Illuminant (source) | Combined LED Light |
| Spectral mode | Concave Grating |
| Sensor | 256 Image Element Double Array CMOS Image Sensor |
| Wavelength Pitch | 10 nm |
| SemiBandwidth | 10 nm |
| Standards compliant (ISO 13655) | Compliance with ISO 13655; measurement conditions: M0 (CIE Light Source A); M1 (CIE Light Source D50); M2 (Excluding UV light source); M3 (M2 + Polarized light filter) |
| Density standard | ISO Status T, E, A, I |
| Density index (functions) | Density value, density difference, dot area, dot enlargement, overprint, printing characteristics, printing contrast, tone error and gray scale |
| Density index (aperture) | Customized one aperture: Φ2 mm, Φ4 mm, Φ8 mm optional |
| Color Space | CIE LAB, XYZ, Yxy, LCh |
| Color Difference Formula | ΔE^*ab , ΔE^*00 , ΔE^*94 |
| Other Colorimetric Data | |
| Observer | 2° / 10° |
| Illuminant (measurement) | D65, A, C, D50, D55, D75, F2 (CWF), F7, F11, F12 |
| Measurement Time | About 1.5 s |
| Repeatability | Density: Within 0.01 D; Chromaticity value: within ΔE^*ab 0.04 (white calibration plate measured 30x at 5-s intervals after white calibration) |
| Interinstrument agreement | Within ΔE^*ab 0.20 (Average for 14 BCRA Series II color tiles) Except M3 |
| Measurement method | Single Measurement; Average Measurement (2-99) |
| Interface | USB |
| Data Storage | 10000 pcs |

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| Alt Name | Spectrodensitometer |
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FEATURES

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 Combined LED light sources with long life and low power consumption, including UV light;
 Optional apertures: $\Phi 2/4/8\text{mm}$, adapt to more samples;
 Accurately measure reflectance spectrum, CMYK density and Lab value of the sample;
 High configuration electronic hardware: 3.5inch TFT truecolor screen, capacitive touch screen, concave grating, 256pixel dualarray CMOS image sensor, etc.;
 Two standard observer angles: 2/10, multiple light source modes and color systems;
 USB mode is widely useful;
 Large capacity storage space, over 10,000 test data;
 Especially suitable for process control and quality control of printing plants;
 PC software has powerful function expansion.



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