



SPECTRODENSITOMETER BSDM-1304

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Spectrodensitometer has the capability of densitometer and measures color and numeric color differences and widely used in the ink printing

BSDM-1304 SPECTRODENSITOMETER



45/0 geometrical optics structure, comply with CIE, the testing conditions of M 0, M 1, M 2, M 3 stipulated by ISO 13655 standard, it can accurately measure various printing density, overprint rate and other printing parameters.

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

High-configuration electronic hardware: 3.5-inch TFT true-color screen, capacitive touch screen, concave grating, 256-pixel dual-array CMOS image sensor, etc.;

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

Optional apertures: $\Phi 2/4/8\text{mm}$, adapt to more samples;

Large-capacity storage space, over 20,000 test data

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

USB/Blue2.1 dual communication mode is widely useful;

Especially suitable for process control and quality control of printing plants;

PC software has powerful function expansion.

SPECIFICATIONS

| Model | BSDM-1304 |
|----------------------------|---|
| Optical Geometry | 45/0(45 ring-shaped illumination, 0 degree viewing angle) |
| Standards compliant | ISO 5-4, CIE No.15 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) |
| Illuminant | D65, A, C, D50, D55, D65, D75, F2, F7, F11, F12 |
| Spectral Mode | Concave Grating |
| Sensor | 256 Image Element Double Array CMOS Image Sensor |
| Wavelength Pitch | 10 nm |
| Semi-bandwidth | 10 nm |
| Density Standards | ISO Status A, E, I, T |
| Density index | Density value, density difference, dot area, dot enlargement, overprint, printing characteristics, printing contrast, tone error and gray level Customized one aperture: $\Phi 2\text{mm}, \Phi 4\text{mm}, \Phi 8\text{mm}$ optional |
| color space | CIE LAB, XYZ, Yxy, Lch |
| Color Difference Formula | $\Delta E^*_{ab}, \Delta E^*_{94}, \Delta E^*_{00}$ |
| Other Colorimetric data | / |
| Observer | $2^\circ / 10^\circ$ |
| Measurement Time | About 1.5s |
| Repeatability | Density: Within 0.01 D Chromaticity value: within ΔE^*_{ab} 0.04 (When a white calibration plate is measured 30 times at 5 second intervals after white calibration) |
| Inter-instrument agreement | Within ΔE^*_{ab} 0.2 (Average for 12 BCRA Series II color tiles) |
| Measurement Method | Single Measurement, Average Measurement(2-99) |
| Interface | USB |



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