BioLAB

PRODUCT CATALOG

SPECTRODENSITOMETER

CE ISO9001 CERTIFIED

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SPECTRODENSITOMETER

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

1300 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: Φ2/4/8mm, 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-1301	BSDM-1302	BSDM-1303	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 Soure A) M1 (CIE Light Soure D50) M2 (Excluding UV light source) M3 (M2+Polarized light filter)			
Illuminant	D65,A,C,D50,D55,D65,D75,F2(CWF),F7(DLP),F11(TL84),F12(TL83/U30),F1,F3,F4,F5,F6,F8,F9,F10(TPL5)		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 scale, density scanning Customized one aperture：Φ2mm,Φ4mm,Φ8mm optional		Density value, density difference, dot area, dot enlargement, overprint, printing characteristics, printing contrast, tone error and gray level Customized one aperture：Φ2mm,Φ4mm,Φ8mm optional	
color space	CIE LAB,XYZ,Yxy,LCh,CIE LUV,HunterLAB		CIE LAB,XYZ,Yxy,Lch	
Color Difference Formula	ΔE*ab,ΔE*94,ΔE*00,ΔE*uv,ΔE*cmc(2:1),ΔE*cmc(1:1),ΔE(Hunter)		ΔE*ab,ΔE*94,ΔE*00	
Other Colorimetric data	WI(ASTM E313,CIE/ISO,AATCC,Hunter), YI(ASTM D1925,ASTM 313), MI (Metamerism Index),Opacity		/	
Observer	2° / 10°			
Measurement Time	About 1.5s			
Repeatability	Density: Within 0.01 D Chromaticity value:within ΔE*ab 0.03 (When a white calibration plate is measured 30 times at 5 second intervals after white calibration)		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 0.18 (Average for 12 BCRA Series II color tiles)	Within ΔE*ab 0.2 (Average for 12 BCRA Series II color tiles)
Measurement Method	Single Measurement, Average Measurement(2-99)	
Interface	USB, Bluetooth	USB

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