

SPECTRODENSITOMETER SPE75-45B



SPECTRODENSITOMETER SPE75-45B

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

SPE75-45B SPECTRODENSITOMETER

45/0 geometrical optics structure, comply with CIE, the testing conditions of M O, 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	SPE75-45B
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(CWF), F7(DLP), F11(TL84), F12(TL83/U30), F1, F3, F4, F5, F6, F8, F9, F10(TPL5)
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: $\Phi 2\text{mm}$, $\Phi 4\text{mm}$, $\Phi 8\text{mm}$ optional
color space	CIE LAB, XYZ, Yxy, LCh, CIE LUV, HunterLAB
Color Difference Formula	ΔE^*_{ab} , ΔE^*_{94} , ΔE^*_{00} , ΔE^*_{uv} , $\Delta E^*_{cmc}(2:1)$, $\Delta E^*_{cmc}(1:1)$, $\Delta E(\text{Hunter})$
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)
Inter-instrument agreement	Within ΔE^*_{ab} 0.18 (Average for 12 BCRA Series II color tiles)
Measurement Method	Single Measurement, Average Measurement(2-99)
Interface	USB, Bluetooth



Labstac LLC

82 Wendell Avenue, STE 100, Pittsfield, MA, 01201, USA
Email: contact@labstac.com | Website: labstac.com