

# SPECTRODENSITOME TER



## **SPECTRODENSITOMETER**

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

#### **SPE75** 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: 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	SPE75-45A	SPE75-45B	SPE75-45C	SPE75-45D	
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(T	L84),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	printing contrast, tone error and gray s	enlargement, overprint, printing characteristics, scale, density scanning Customized one mm,Ф8mm optional	dot area, dot overprint, printir printing contras gray level Cu aperture:Φ2mn	ensity difference, enlargement, ig characteristics, t, tone error and stomized one n,Ф4mm,Ф8mm onal	
color space	CIE LAB,XYZ,Yxy,LCh	n,CIE LUV,HunterLAB	CIE LAB,XYZ,Yxy,Lch		
Color Difference Formula	ΔE*ab,ΔE*94,ΔE*00,ΔE*uv,ΔE*c	mc(2:1),ΔE*cmc(1:1),ΔE(Hunter)	ΔE*ab,ΔE*94,ΔE*00		
Other Colorimetric data		(ASTM D1925,ASTM 313), MI (Metamerism Opacity	/		
Observer	2° / 10°				
Measurement Time	About 1.5s				

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Repeatability	Density: Within 0.01 D Chromaticity value:within $\Delta E^*$ 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	



### **Labstac LLC**

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