

SD - 3010

SPECTRO DENSITOMETER



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

►► SD-3010 Grating Spectrodensitometer :

Under the 45/O geometric optical illumination and the testing conditions of M 0, M 1, M 2, M 3 stipulated by ISO 13655 standard, the instrument can accurately measure the reflectance data of samples. Under multiple color spaces, it can accurately measure various printing density indexes, color difference formulas and color indexes, and can meet the user's regular testing of various parameters.



►► Product Features:

- 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;
- Switchable apertures: 42/4/8/20mm, adapt to more samples;
- 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;
- 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.



►► Application:

It is widely used in ink, printing, film processing, textile dyeing, plastic electronics and other industries for accurate color measurement and quality control, as well as in scientific research institutions, quality testing institutions, laboratories; especially suitable for precise measurement and quality control of optical density and dot enlargement in ink printing.



Ink & Printing



Paper



Textile



Automobile



Plastics



Laboratory

►► Specification:

Illumination:	45/0
Standard:	ISO 5-4, CIE No.15
Light Source:	Combined LED source, UV light
Spectral mode:	Concave-Grating
Sensor:	256-pixel dual-array CMOS image sensor,
Wavelength range:	400~700nm
Wavelength pitch:	10nm
Half bandwidth:	10nm
Measurement conditions:	meet the ISO 13655 measurement
Conditions:	M0 (CIE light source A); M1 (CIE light source D50) M2 (excluding UV illumination); M3 (M2 + polarized light filter)
Density standard:	ISO Status T, E, A, I
Density index:	density value, density difference, dot area, dot increase, overprint, printing characteristics, printing contrast, tone error and grayscale
Measurement Aperture:	Φ2mm, Φ4mm, Φ8mm
Color Space:	CIE LAB, XYZ, Yxy, LCh
Color difference formula:	ΔE^*ab
Other colorimetric indexes:	WI(ASTM E313, CIE/ISO, AATCC, Hunter), YI(ASTM D1925, ASTM 313), MI, Cover Ratio
Observer Angle:	2°/10°
Illuminant:	D65, A, C, D50, D55, D75
Measuring time:	Approx. 1.5s
Repeatability:	density value: within 0.01D
Chromaticity value:	within ΔE^*ab 0.04
Inter-instrument agreement:	within ΔE^*ab 0.2 (Average for 12 BCRA series II color tiles)
Chromaticity value:	within E^*ab 0.04
Measurement method:	single measurement, average measurement (2-99 times)
Size:	L*W*H 184X77X105mm
Weight:	Approx. 600g
Battery life:	lithium battery, 5000 times in 8 hours
Lighting source life:	5 years, more than 3 million measurements
Display screen:	TFT true color 3.5 inch
Touch Screen Interface:	USB
Storage:	10000
Language:	English
Standard accessories:	power adapter, data line, built-in lithium batteries, instructions, quality control software, black and white calibration board, protection cover, polarization filter box
Optional accessories:	Micro printer

Regulatory compliances



Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



Analytical
Foundation

1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at Info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

Reach us @



 **Analytical**®
Technologies Limited

HPLC Solutions MultipleLabs Analytical Bio-Med Analytical Distributors Analytical Foundation (Trust)

Corporate & Regd. Office:
Analytical House, # E67 & E68,
Ravi Park, Vasna Road, Baroda,
Gujarat 390 015. INDIA

T: +91 265 2253620
+91 265 2252839
+91 265 2252370
F: +91 265 2254395

E: info@hplctechnologies.com
info@multiplelabs.com
info@analyticalgroup.net
info@analyticalbiomed.com

W. www.analyticalgroup.net
www.hplctechnologies.com
www.multiplelabs.com
www.ais-india.com

Sales & Support Offices:
across the country :
Distributors & Channel
partners World Wide