



SD-3050

Spectro Densitometer



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

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net



▶▶ Enhanced Grating Spectrodensitometer

Under the CIE 45/0 geometric optical illumination and the testing conditions of MO, M1, M3 stipulated by ISO 13655 standard, the instrument can accurately measure the reflectance data of samples. Under multiple color spaces, it can accurately measure and present various printing density indexes, color difference formulas and color indexes, with built-in scanning function, it can meet the user's regular testing of various parameters, the instrument with top color manager software, connect to PC, more function expansion.



Features:

- 45/0 geometrical optics structure, comply with CIE, the testing conditions of MO,M2, M3 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;
- Especially suitable for process control and quality control of printing plants;
- Switchable apertures:Φ2/4/8/20mm, adapt to more samples;
- Large-capacity storage space, over 20,000 test data
- USB/Blue2.1 dual communication mode is widwly useful;
- PC software has powerful function expansion.
- 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;



Application Industry

3050 with multiple switchable apertures:(2mm,4mm,8mm,20mm),It is widely used in ink printing,paper,painting,scientific research and laboratory.especially suitable for precise measurement and quality control of optical density and dot enlargement in ink printing.















Ink & Printing

Paper

Textile Au

Plastics

Laboratory

Others

Specifications

Illumination	45/0
Standard	ISO5-4 ,CIENo.15
Light Source	Combined LED Source, UV Light
Spectral Mode	Concave-Grating
Sensor	256-pixel dual-array CMOS imager sensor,
Wavelength Range	400~700 nm
Wavelength Pitch	10 nm
Half Bandwith	10 nm
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,Density scanning.
Measurement Aperture	Customizable single Ф2mm,Ф4mm,Ф8mm optional.
Color Space	CIE LAB,XYZ,LCh,CIE LUV,Hunter LAB
Color difference formula	ΔE^* ab, ΔE^* uv, ΔE^* 94, ΔE^* cmc(2:1), ΔE^* cmc,
	ΔE* 00, ΔE (Hunter)
Other Colorumetric Indexes	WI(ASTM E313,CIE/ISO,AATCC,Hunter),YI(ASTM
	D1925,ASTM 313),MI,Cover
Observer Angle	2/10
illuminant	D65,A,C,D50,D55,D75,F1,F2(CWF),F3,F4,F5,F6,
	F7(DLF),F8,F9,F10(TPL5),F11(TL84),F12(TL83/U30)



D65,A,C,D50,D55,D75,F1,F2(CWF),F3,F4,F5,F6,
F7(DLF),F8,F9,F10(TPL5),F11(TL84),F12(TL83/U30)
Approx.1.5s
density value:within 0.01D
within ∆E* 0.03
within ∆E* ab 0.18
(Average for 12 BCRA series II color tiles)
Single measurement,
average measurement(2-99 times)
L*W*H 184 x 77 x 105 mm
Approx. 600
Lithium battery, 5000times in 8 hours
5 years, more than 3 million measurements
TFT true color 3.5inch
USB&Blue 4.0(Compatible 2.1)
20000
simplified Chinese,English, Traditional Chinese
0~40°C,0~85%RH (no condensing),Altitude<2000m
20~50°C,0~85%RH (no condensing)
Power adapter, data line,built-in lithium batteries,
instructions,quality control software(+download from
official website),black and white calibration board,
protection cove,polarization filterbox,Locating plate
Micro printer



HPLC Servicing, Validation, Trainings and Preventive Maintenance:

HPLC Servicing: HPLC Servicing: We have team of service engineers who can attend to any make of HPLC promptly @the most

affordable cost.

Trainings :We also take up preventive Maintenace to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-

shooting.

Validations: Validations: We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

Instruments: We offer instruments/Renting Services Modules like pumps, detector etc. on Rent.





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Our Products & Technologies



UV/VIS Spectro 2080+ Double Beam



Infra FTIR



Optima Gas Chromatograph 3007



Optima Gas Chromatograph 2979 Plus



Flash Chromatograph



Atomic Absorption Spectrophotometer



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Optical Emission Spectrophotometer



DSC/TGA



Semi Auto Bio Chemistry Analyzer



HEMA 2062 Hematology Analyzer



Micro Plate Reader/Washer



URINOVA 2800 Urine Analyzer



Total Organic Carbon 3800



Fully Automated CLIA



NOVA-2100 Chemistry Analyzer



PCR/Gradient PCR/ RTPCR



TOC Analyzer



Laser Particle Size Analyzer



Ion Chromatograph



Water purification system

Regulatory compliances



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