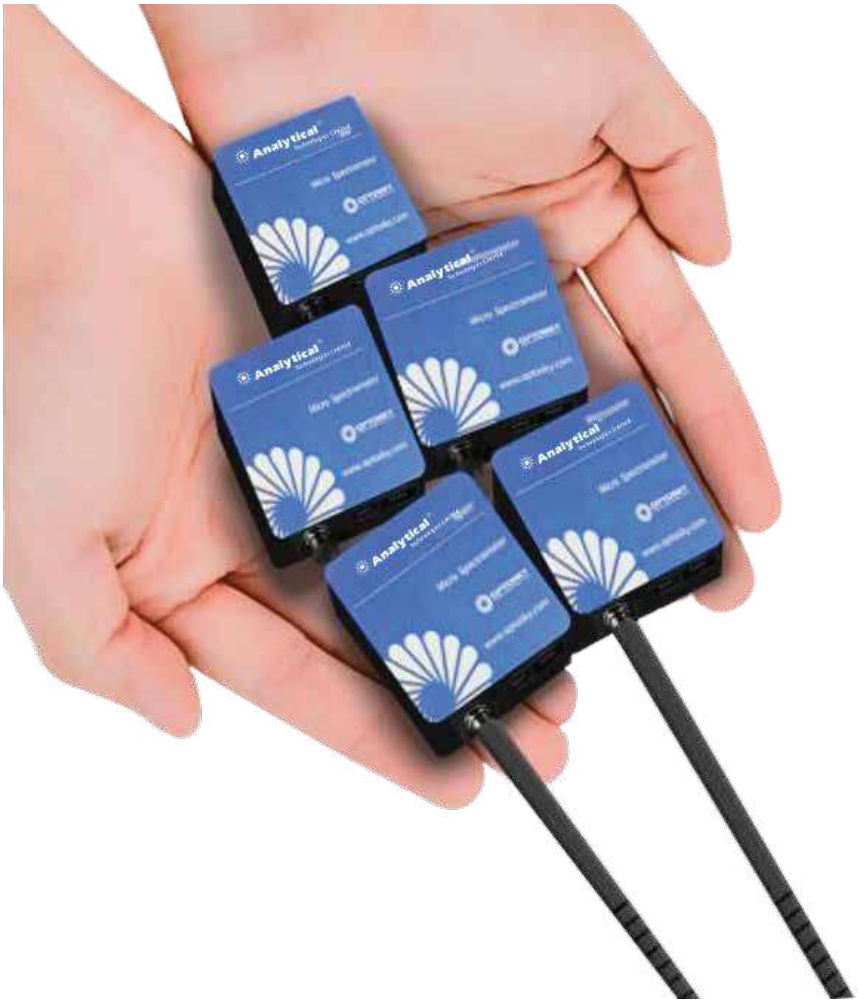
Multiplelabs
Turnkey Laboratories Solutions

Analytical®
Technologies Limited

MS - 3010

Microspectrometer



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

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

KEY FEATURES

Full Spectral Analysis in a Small Footprint

CMOS-based unit is less than 50 mm (2”) square, weighs just 60 g

Remarkable Performance

Meets or exceeds optical resolution, stability, sensitivity and other performance criteria associated with larger, more expensive spectrometers

Built-in Shutter

Convenient feature for making dark measurements

SMALL SIZE. BIG PERFORMANCE

With a unique optical design and sensitive CMOS array detector, MS3010 delivers a high signal-to-noise ratio (>450:1) and a wide dynamic range (10000:1), making it ideal for measurements from low-concentration absorption to high intensity light and laser characterization. For MS3010 190-900 nm, users enjoy an instrument tailored to their application need.

AT A GLANCE

Size: 45 x 40 x 24 mm

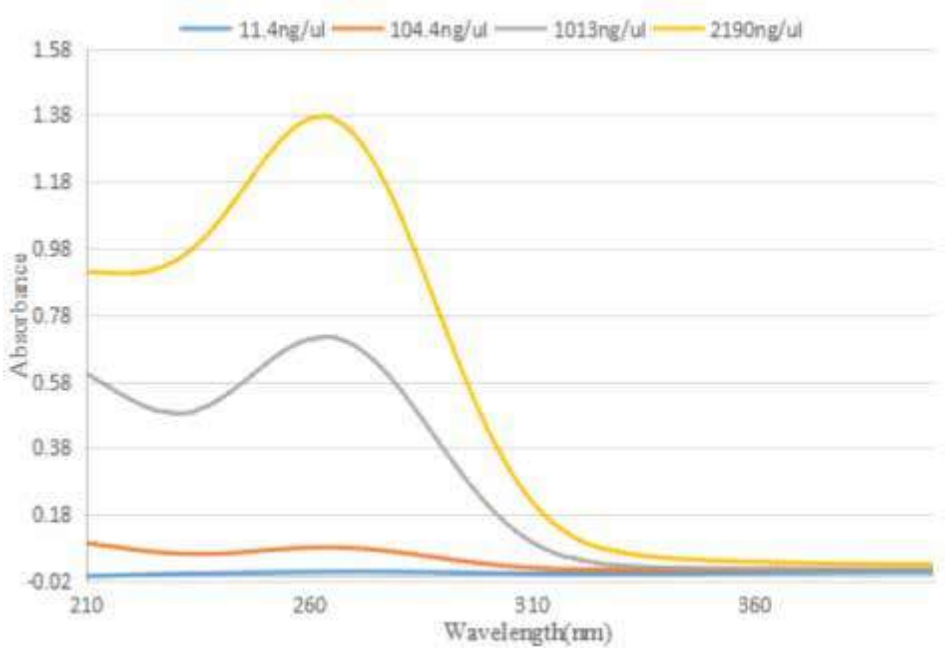
Weight: 60 g

Wavelength range: 190-900 nm

Signal-to-noise ratio: >450:1

Dynamic range: 10000:1

DNA Absorbance Spectra Measured



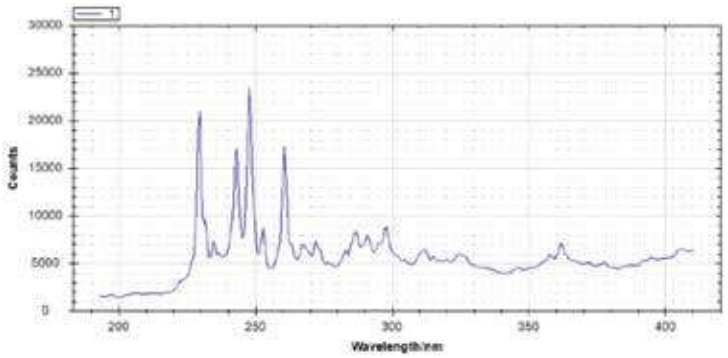
Sensor	
Type	Hamamtsu S13014 Linear CMOS
Spectral Range	180-1100 nm Customize
Effective pixel	512
Pixel size	14 × 200 μm
Sensitivity	1300 V/(lx·s)
Dark Noise	13 RMS @ 13 ˚C
Optical Parameters	
Wavelength	200-400nm， 350-800nm, 300-1100nm， 800-1000 nm, optional
Resolution	0.2-5 nm （Slit size & spectral range）
SNR	> 450:1
Dynamic Range	10000： 1
Optical Path	
Optical Design	F/4 Crossed C-T
Focal Distance	28 mm for incidence / 28 mm for output
Slit size	5, 10, 25, 50, 100, 150, 200 μm , others customized
Input interface	SMA905 or free space
Electrical Parameters	
Integration Time	1 ms ~ 10 min
Data Port	USB 2.0 or UART
ADC bit depth	16 bit
Power Supply	DC 4.5 5.5 V (type @5V)
Working current	<200 mA
Storage Temp.	-20°C to +70°C
Operating Temp	-10°C to +50°C
Working Humidity	< 90%RH
Physical parameters	
Size	45×40×24 mm3
Weight	60 g

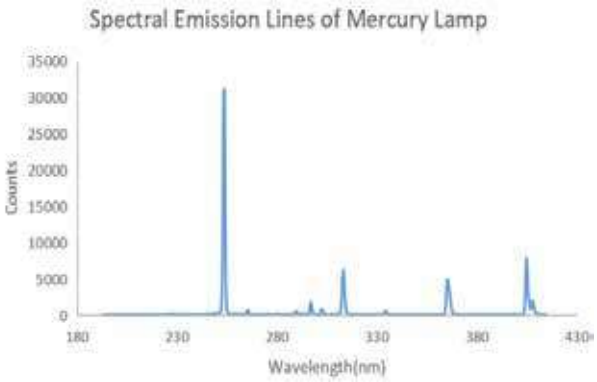
MARKETS AND APPLICATIONS

MS 3010 is conceived as a low-cost, high-performance spectrometer for high-volume applications where one or more wavelengths are being monitored and customers seek a highly reproducible result. Life sciences, medical diagnostics, solid state lighting and environmental analysis are among the industries where MS3010 is an attractive alternative to ilter-based optical sensing systems and other microspectrometers.

MS 3010 has very good optical resolution, wavelength and thermal stability, making it a great choice for LED and light source characterization, as well as absorbance/transmission measure-ments in process and other industries

SAMPLE RESULTS WITH MS 3010 MICROSPECTROMETER





Analytical® Technologies Limited

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.

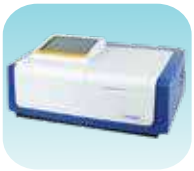
Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

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

About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufaturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

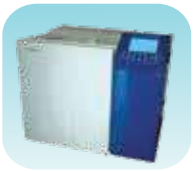
Our Products & Technologies



UV/VIS Spectro 2080+ Double Beam

Infra FTIR

Optima Gas Chromatograph 3007



Optima Gas Chromatograph 2979 Plus

Flash Chromatograph

Atomic Absorption Spectrophotometer

Liquid Partical Counter

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

Corporate Social Responsibility

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

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 personallities 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 DETOXIFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

Analytical® Technologies Limited

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