

Spectro - 3200

Desktop Spectrometer



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

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

►► Product Introduction:

- Spectro3200 is a newly designed and ergonomically compact desktop electronic paramagnetic resonance spectrometer. On the basis of dedication to high sensitivity and high stability, provide a super cost-effective, simple and friendly experience for every scientific research or industrial user who needs EPR testing.

►► Product Features:

- High sensitivity, accuracy, stability
- Integrated instrument control software, data processing software and spectrum fitting software
- Standard sample for accurate g measurement and quantitative EPR measurement
- Support manual and automatic tuning
- Customized software package: application for radiation dosimetry
- Multifunctional accessories: low temperature measurement, angle device, light

Small size, unique design

Simple and fast sample preparation and maintenance

Friendly software interface

Fast and accurate data collection & analysis

strong technical support and after-sales team



►► Product Parameter:

Frequency Range	9.2-9.9GHz
Modulation Field Amplitude	10 Gauss
Magnetic Field Range	6500 Gauss (Max)
Uniformity of magnetic field in sample area	Better than 50mG
Detection SN ratio in continuous wave mode	Better than 600:1
Absolute spin number sensitivity	5×10^9 spins/(G √ Hz)
Light Window	Support
Low Temperature Test	100-475 K or optional
Auto Tuning	Support
Scan Speed	10ms/P~5s/P
g-value Standard Sample	Internal
Quantitative EPR test Microwave	Internal standard sample Mn
Power Range	1uW - 100mW
Modulation Field Frequency	10 kHz / 100 kHz
Weight	50 kg
Size	530 mm*420 mm*354 mm

►► Product Application :

Unpaired electrons are widely distributed, such as isolated single atoms, conductors, magnetic molecules, transition metal ions, rare Earth ions, ion clusters, doping materials, defective materials, biological free radicals, metal proteins, etc.; many substances do not contain themselves unpaired electrons will produce unpaired electrons after being excited by light. Therefore, electron paramagnetic resonance technology is widely used in physics, chemistry, biology, materials, industry and other fields.

Environment Science: Environmental monitoring such as air pollution. sewage treatment, transition metal heavy metals, EPRFs.

Chemistry: Coordination compound structure research, catalytic reaction, free radical detection, reactive oxygen species detection, chemical reaction kinetics, etc.

Physics & Material: Single crystal defects, magnetic material properties, semiconductor conductive electrons, solar cell materials, polymer properties, fiber defects, etc.

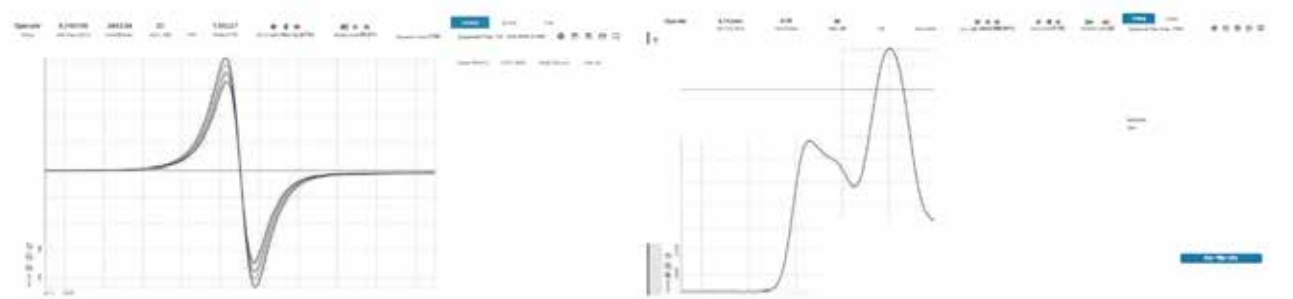
Biomedical: Antioxidant characterization. nitrogen oxide detection, reactive oxygen species ROS, occupational disease protection research, nuclear radiation emergency medical rescue diagnostic classification, cancer chemotherapy and radiation related research.

Food Science: Agricultural product irradiation dose, beer flavor preservation period, edible oil rancidity test, alanine dosimeter, food and beverage antioxidant.

Industry : Coating aging research, cosmetic free radical protection coefficient, diamond defect identification, tobacco filter efficiency, free matrix controlling petrochemical industry.

►► Product Software :

spectro-pro is the operating software of Spectrometer, which provides fast experimental operation procedures and scientific data analysis functions.



Software Features

- Modern design style, simple and elegant interface
- Separate data analysis software for offline use
- scienti
- Automatic experiment report generation



Liquid nitrogen variable temperature



Liquid nitrogen dewar



Light system



Standard sample



4 mm outer diameter sample tube, flat cell



Automatic corner device

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 Maintenance 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, Manufacturing, 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:



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 @



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