"Although EPR spectroscopy is a fundamental measurement tool that will remain active indefinitely, and although there will continue to be inventions, discoveries and new applications, it is unlikely that the fundamental structure of the field will change. EPR will continue to be used for research in physics, chemistry and biology to examine samples in the liquid, solid and gas phases over a range of temperature and other conditions."

James S. Hyde

SOLUTIONS FOR RESEARCH:

- ELECTROCHEMISTRY EC-EPR kit
- CRYSTAL ANISOTROPY STUDYING 2-axis Goniometer
- PHOTOCHEMISTRY Window and accessories for UV irradiation
- CONTINUOUS FLOW CHEMISTRY Flow-through system
- REDOX KINETIC MEASUREMENTS Stopped-flow system
- TEACHING Educational kit
- FOOD&ALANINE DOSIMETRY Alanine dosymetry package

SPECIFICATION

Sensitivity	5x10° spins/0,1mT	MW bridge and cavity tuning	Automatic
Resolution	0,005 mT	Cavity	TE ₁₀₂
Maximum magnetic field	0,7 T	Q unloaded	5000
Sweep width	10 ⁻⁴ -0,65T	Amplitude resolution	24 bit
Operating Frequency	X-band	Dimensions	470 x 380 x 260 mm
Microwave power	200 mW		[18 x 15 x 11"]
Magnetic field modulation	10-250 kHz	Weight	45 kg [100 lb]

ACCESSORIES AVAILABLE FOR EPR SPECTROMETER SPINSCAN X

- SYSTEMS FOR TEMPERATURE CONTROL IN THE RANGE FROM -170°C TO +600°C
- ALL AVAILABLE GLASSWARE & ACCESSORIES FOR X-BAND EPR/ESR SPECTROSCOPY
- CUSTOMIZED HOLDERS FOR SPECIFIC SAMPLES TYPE (TUSSUE, SUBSTRATES ETC)
- 2- AXIS GONIOMETER







Flow through system

Automatic sample changer

Automatic temperature control system



ISO 9001:2015

DESKTOP ANALYTICAL INSTRUMENTS



SPINSCAN X

CW X BAND EPR/ESR SPECTROMETER

BENCH TOP INSTRUMENT WITH CAPABILITIES OF LARGE MACHINES FOR STUDYING MAGNETIC PROPERTIES OF MATERIALS



VERY USEFUL AND POWERFUL TECHNIQUE FOR

KEY FEATURES

Fast and high sensitive analysis

Compact, ergonomic design with a small footprint

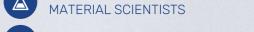
Does not require any complicated or time-consuming sample preparation

Ready-to-plug-in and service friendly instrument

PC-controlled and fully automated operation

Comprehensive software package for EPR spectra acquizition and its analysis

CHEMISTS, PHYSICISTS, BIOLOGISTS,









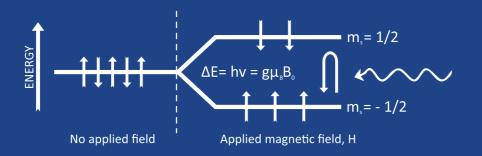


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SPINSCAN X EPR SPECTROMETER IS UNIQUE BENCHTOP INSTRUMENT AVAILABLE FOR THE DETECTION OF THE FREE RADICALS/ PARAMAGNETIC CENTERS IN LIQUID OR SOLID PHASES

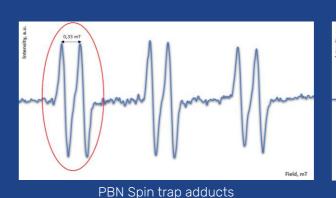
TODAY EPR TECHNIQUE CAN BE AVAILABLE FOR ANY LAB DOING ROUTINE RESEARCH OR FOR TEACHING DUE TO SPINSCAN'S COMPACT SIZE. WIDE CAPABILITIES AND REASONABLE PRICE

Electron Paramagnetic Resonance (EPR), or Electron Spin Resonance (ESR) spectroscopy utilizes microwave radiation to probe species with unpaired electrons, such as radicals, radical cations, and triplets in the presence of an externally applied magnetic field.



EPR TECHNIQUES

- Spin trapping
- Spin labeling
- Spin probe
- Matrix isolation
- Stopped flow
- Fast scan





HIGHLIGHTS

- COMPACT DESIGN OF ELECTROMAGNET AND HIGH EFFICIENT MICROWAVE BRIDGE
- HIGH STABILITY AND EXCELLENT HOMOGENETY OF MAGNETIC FIELD
- **W** EXTENDED FUNCTIONALITY OF SOFTWARE FOR DATA ACQUIZITION AND PROCESSING
- MOST CAPABILITIES OF LARGE SPECTROMETERS ARE AVAILABLE
- HIGH SENSITIVITY AND RESOLUTION AT SMALL FOOT PRINT



BENEFITS

- Cavity Q-factor and MW power measurements
- Phase shifting detection range 0°-360°
- First and second harmonics detection (in phase and out of phase)
- Built-in frequency counter: automatic g-factor measurement
- Broad dynamic range of signal channel digitization up to 140 dB per one scan
- Both autotune or manual tune the microwave cavity and bridge
- SMA ports for external peripheral devices (external synchronization and analog signal inputs)
- e-SPINOZA software the user-focused software kit for data acquisition and processing
- 2D, 3D experiments (intensity vs time delay, temperature, MW power, ampl. modulation)
- Time-resolved EPR triggered with ligh, magnetic field, MW power pulses
- Interface via Ethernet: remote control and service
- Ergonomic design

