

FMR Measurement System

FERROMAGNETIC RESONANCE MEASUREMENT SYSTEM
FOR SPINTRONICS & THIN FILM CHARACTERIZATION

PRICE
from **€70 000**
incl. electromagnet

1.5 T
OUT-OF-PLANE FIELD

DC-24 GHz
BANDWIDTH

1 nm
THICKNESS SENSITIVITY

10 min
FULL MEASUREMENT
CYCLE

PRODUCT OVERVIEW

The **FMR Measurement System** is a compact measurement setup engineered specifically for fast, high-sensitivity measurement of magnetization dynamics. The setup includes a controlled source of the magnetic field, dedicated antennae and modulation coils, and is fully automated with dedicated software and an analytical tool.

AUTOMATED FMR SETUP

- **Sequencer:** multiple magnetic field sweeps with different frequency settings.
- **Dynamic measurement stimuli:** automatic determination of the field step, reducing measurement time up to 10 times.
- **Integrated analysis:** automatic peak-function modelling and Kittel formula fitting for fast determination of magnetic parameters:

saturation magnetization

anisotropy energy

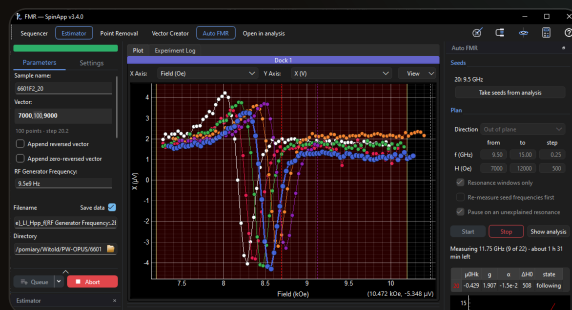
magnetization damping



DEDICATED RF ANTENNA & MODULATION COILS

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION / RANGE
Magnetic field	Up to 1 T in-plane, 1.5 T out-of-plane
Bandwidth	DC – 24 GHz
Thickness sensitivity	Down to 1 nm
Full measurement cycle	Down to 10 minutes



CONTROL & ANALYSIS SOFTWARE