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Acoustic, Vibration, and EMI Isolation Specialists

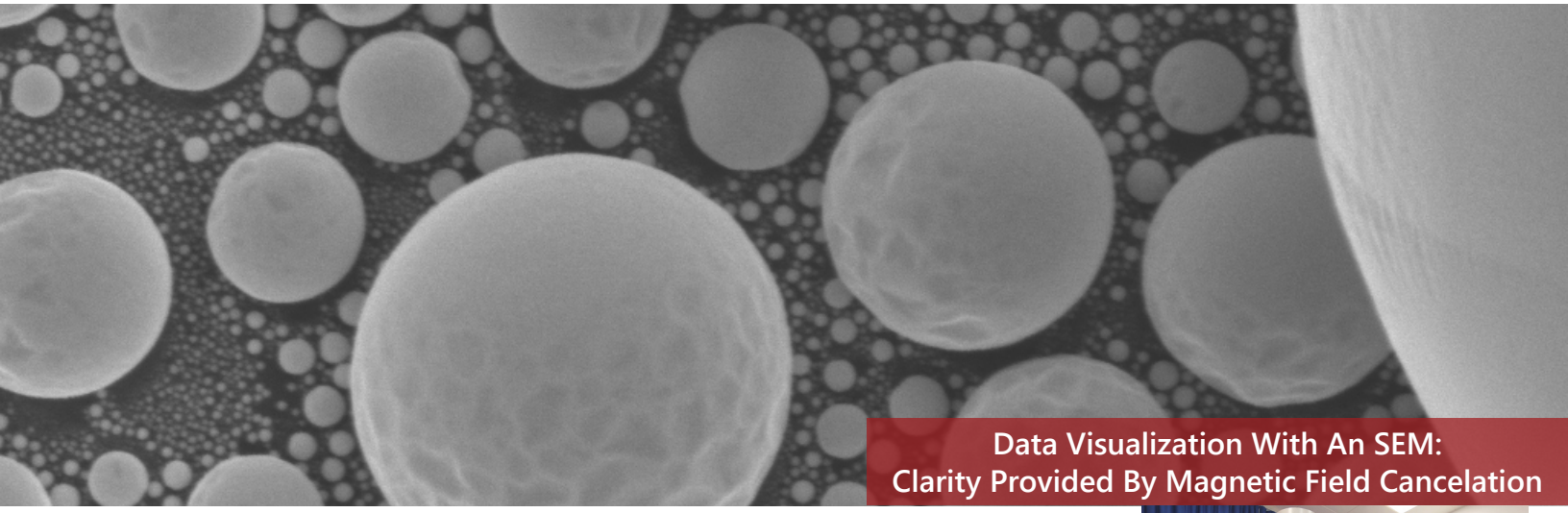
Spicer System

Overview

The Spicer magnetic field cancellation system provides industry-leading protection against AC and DC fields for high resolution electron microscopes. The Spicer System is designed to integrate around an electron microscope, offering maintenance-free EMI shielding for any lab or research facility.

SC-24 System Digital Controller

Electron microscopy users often choose the Spicer System because it is a cost-effective solution to improve the imaging of their electron microscopes by removing disruptive AC and DC fields from their measurements.



Data Visualization With An SEM: Clarity Provided By Magnetic Field Cancelation

Applications

The Spicer System broadens the available installation locations for electron microscopes by allowing them to be placed in environments where significant magnetic fields are present. As a result, they can be installed at sites previously rejected due to magnetic field interference.

Common applications include:

- Scanning Electron Microscopes
- Transmission Electron Microscopes
- MRI Machines and more!

SC-22 System Supporting A TEM

Product Highlights

The SC System comes in two varieties: the SC-22 (cost-effective AC field cancellation) and the SC-24 (high performance AC/DC field cancellation). Their unique qualities and advantages are detailed below.

SC-24 AC Sensor

SC-22 Field Cancellation System (AC Fields)

- Low cost, high performance system
- Automated set up with an intelligent user interface
- Cancels AC fields from 2.5 Hz to 5 kHz, 50x field improvement at 60 Hz
- Full 3-axis system, up to 60 mG (6.0 µT) pk-pk range
- Adapts to field changes within 100 µs

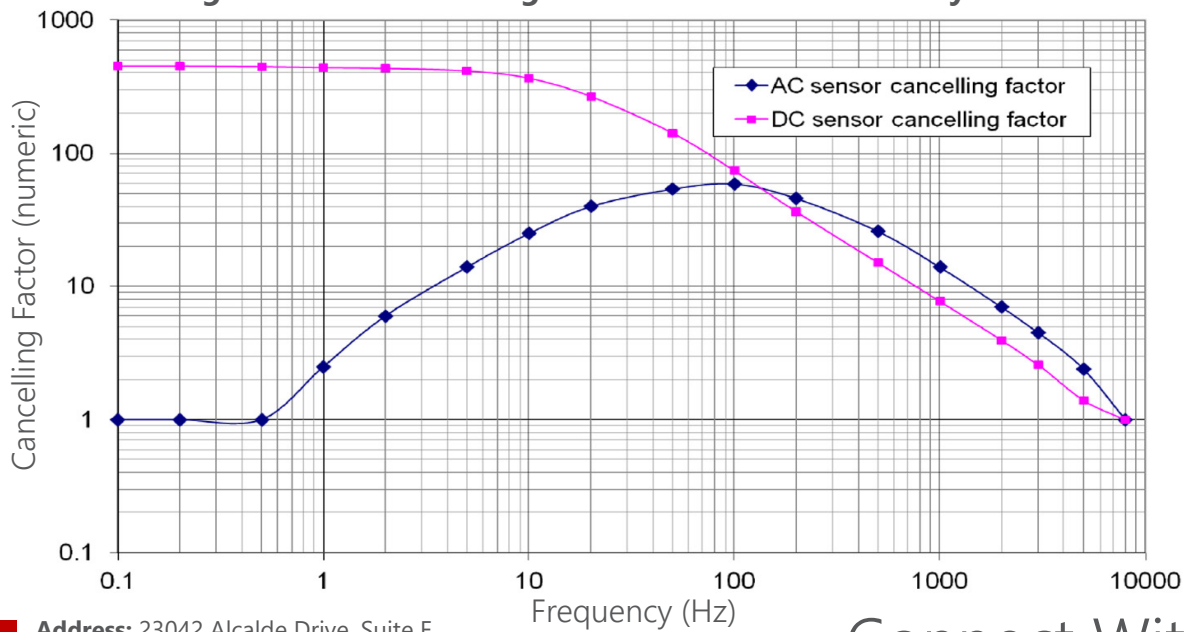
SC-24 Field Cancellation System (AC/DC Fields)

- Uses AC sensors to cancel 50/60 Hz AC line fields or DC sensors to cancel tram and train DC fields (as well as 50/60Hz AC line fields)
- Simultaneous AC & DC field display with choice of Tesla or Gauss units
- Mixes dual sensors to create virtual sensor "inside" the EM column
- Adapts to field changes within 100 µs
- Touch screen intelligent user interface with automatic setup and DC reset
- Ethernet and USB ports for remote operation and monitoring

SC-24 DC Sensor

PERFORMANCE DETAILS

Magnetic Field Cancelling Performance of the SC24 System



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