

## DIAMAGS SPEED

High-performance active compensation system



Diamags Speed redefines the standards for MRI site usability and imaging quality through active compensation of low-frequency magnetic field fluctuations.

Designed to enhance MRI image quality, it is the ideal solution to eliminate interferences caused by external sources like subways, trains, elevators, moving metal, and electrical distribution equipment. Due to such interferences, many potential MRI sites are rejected.

Diamags Speed is able to compensate multiple sources on all three axes and can be installed on any type of MRI system 0.12-7T, Hybrid System, or Electron Microscopy, regardless of manufacturer.

### Key Benefits

- Eliminates AC/DC magnetic interferences from external sources
- Reduces artifacts and noise for precise and reliable diagnostic results
- Improves MRI image quality
- Enhances operational efficiency by reducing imaging disruptions
- Unlocks potential MRI sites previously deemed unsuitable due to environmental challenges
- Minimizes costly site rejections and delays, streamlining project timelines
- Protects investment in high-end MRI systems
- Reduce operational costs with simple installation
- Compatible with all major MRI systems from urban centers to remote locations

### Specifications

- Unit Dimensions: 14" w x 9" h x 8" d
- Standard 100/250 VAC power 50/60 Hz
- Frequency range: DC (0-5Hz) AC (16-300Hz)
- Amplitude range: Up to  $\pm 500$ mG
- Connections: Ethernet (Remote Control), USB (Firmware Update)
- Environmental req: 32–104°F, 15-85 % RH

### Performance Characteristics

- Compensation resolution: 0.003% of FS
- ADC resolution: 24 bit
- Residual magnetic field:  $< 1$  mG pk-pk
- Multi-channel system for all three axes
- Range of Flux Gate Sensor: 250 $\mu$ T, 500 $\mu$ T or 1000 $\mu$ T