

SPICER SC22

DESCRIPTION

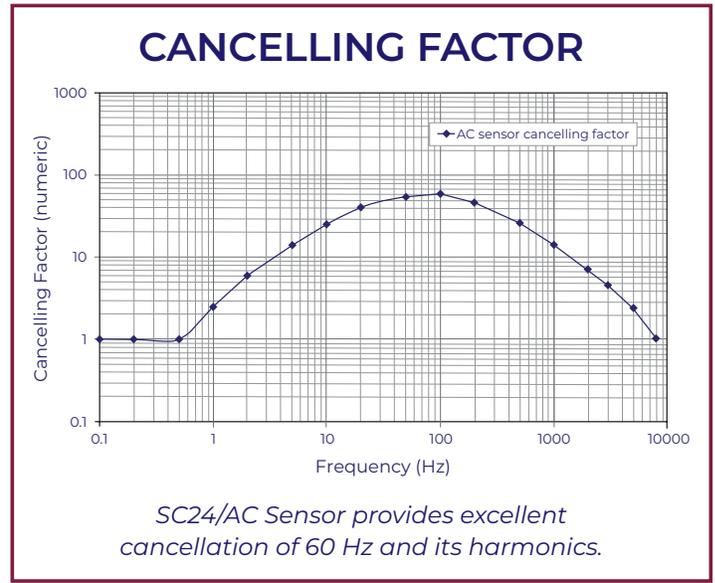
The SC22 is a low-cost, high-performing AC magnetic field cancellation system that reduces the ambient AC field and restores the resolution and accuracy.

KEY FEATURES

- Cancels AC fields from 10 Hz to 5 kHz
- 50 x field improvement at 60Hz
- Supports dual sensors for TEMs and high-gradient fields
- Adapts to field changes within 100 μ s
- Intelligent user interface with automatic setup and real-time monitoring
- Green "Field OK" Indicator Light

SPECIFICATIONS

Field Cancellation	
Components Cancelled	X, Y, Z fields
Dynamic Range (X & Y)* ¹	60 mG (6 μ T) Pk-Pk
Dynamic Range (Z)* ¹	30 mG (3 μ T) Pk-Pk
Field Cancelling Factor	50 X at 50/60 Hz
Bandwidth	2.5 Hz – 5,000 Hz
Cancelling Noise Limit (0.5 to 5,000Hz)	0.7nT RMS total
Power	120/240 V (+10% -20%) 50/60 Hz , 50 VA
¹ * Dynamic range is stated when operating at the nominal AC power input of 120 or 240 volts RMS. De-rate linearly for lower voltages.	



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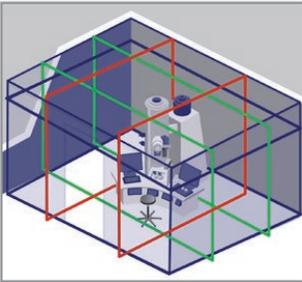
1441 Rollins Road
Burlingame, CA 94010
www.vibeng.com



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SPICER SC22

INSTALLATION EXAMPLES

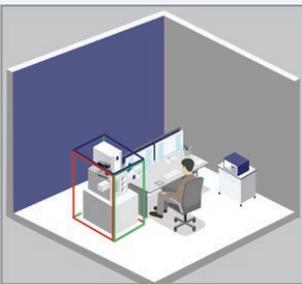
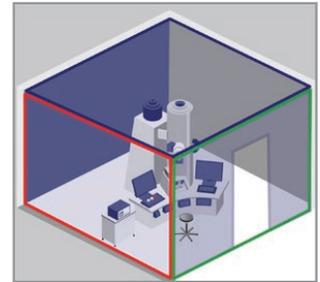


DUAL LOOP INSTALLATION

Ideal For	Transmission Electron Microscopes (TEMs)
Benefit	Uniform cancellation along the entire electron beam column
Performance	Reduce fields from 10 to 12 mG to 0.05 mG from 1.3m – 4.5m

SINGLE LOOP INSTALLATION

Ideal For	Scanning Electron Microscopes (SEMs) and Dual Beams that are in a single room with one microscope centered in the room
Benefit	Cables are on the wall, out of the way, and don't inhibit access and serviceability of the microscope
Performance	Reduce fields from 20 mG to 0.1 mG

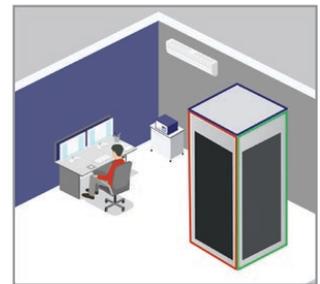


FRAME INSTALLATION

Ideal For	Standard SEMs and Dual Beams with multiple instruments in the same room or when microscope is in a very large room away from walls
Benefit	Helmholtz loop configuration provides excellent performance and field uniformity while minimizing interference on adjacent instruments
Performance	Reduce fields from 20 mG to 0.1 mG

ENCLOSURE INSTALLATION

Ideal For	SEMs, Dual Beams, & TEMs with enclosures
Benefit	Cables integrated into system enclosure, and VEC can provide layouts to accommodate cranes and other accessories
Performance	Reduce fields from 20 mG to 0.1 mG



Hybrid configurations and advanced double dual loop system design also available.



For more information about the Spicer SC22, scan this QR code

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