MRI Simulator

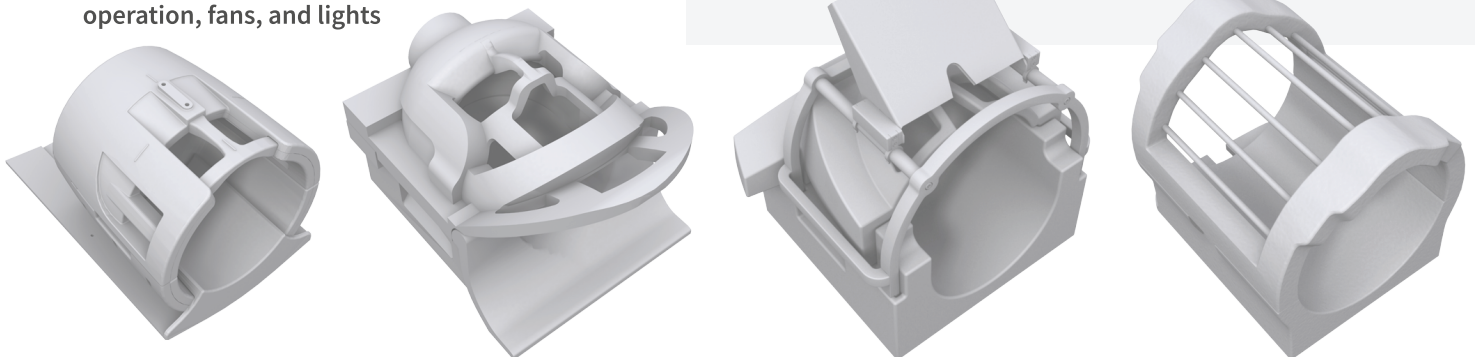## Simulate the MRI environment

Features:

- Realistic approximation of scanning environment
- Comfortably introduce children to the MRI environment
- Acclimate and pilot test fMRI participants
- Train faculty and staff in a low cost setting
- Eliminate failed scans caused by claustrophobia and anxiety
- Train participants to minimize motion to increase data quality

Includes:

- Standard 60 cm circular bore with tapered entry and front façade panel
- Realistic scanner body with sturdy steel frame construction
- Cooling fans and diffused lighting for participant safety and comfort
- Amplified speakers with subwoofer for realistic scanner noise production and vibration
- Quiet, motorized participant table with drag sensing safety stop and dynamic speed control
- Integrated control panel for participant table operation, fans, and lights

Accessories:

- Mock Head Coils: GE™ 32-channel or Siemens™ 32- and 64-channel with Rear Facing Mirror System
- Participant Video: 22" 1080p Monitor with Scan Reverse capability and adjustable stand
- Participant Audio: High quality headphones with a comfortable ear cup design
- Participant Camera: Micro camera mounted inside of bore to monitor participant safety
- Participant Response: Right and left hand button response units (5 buttons each hand)
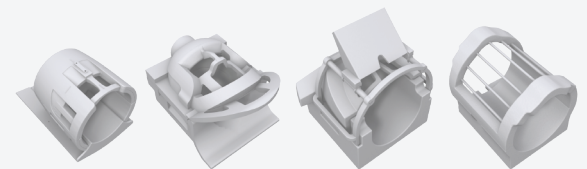
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## Simulate the MRI environment

Related Products:

GE™ 32-channel or Siemens™ 32- and 64-channel Mock Head Coils with Rear Facing Mirror Systems. A mock MRI head coil is an essential accessory to the MRI Simulator. Multiple head coils can be used, as all models are interchangeable.

SimFx™ software simulates the ambient scanner sound and the active scanning noise of the MRI environment. Using high-quality fiber-optic microphones, a variety of ambient and active scanner sounds from both GE and Siemens scanners were recorded and are available to use with the SimFx Sound Simulation System.

MoTrak® is a head-mounted motion tracking system capable of monitoring head motion and angular rotation along the X, Y, and Z axes. With this data, the MoTrak system can modulate audio and/or video output, allowing the researcher to provide positive and/or negative feedback to train participants to remain still - increasing MRI imaging data quality.
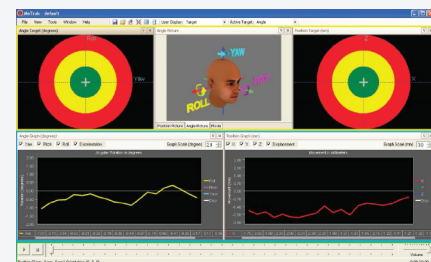
The IACI™ MRI Console Simulation Software allows for the instruction of MRI procedures in the classroom and beyond. Users will acquire experience and confidence with an MRI operator's console.

PSYCHOLOGY SOFTWARE TOOLS
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