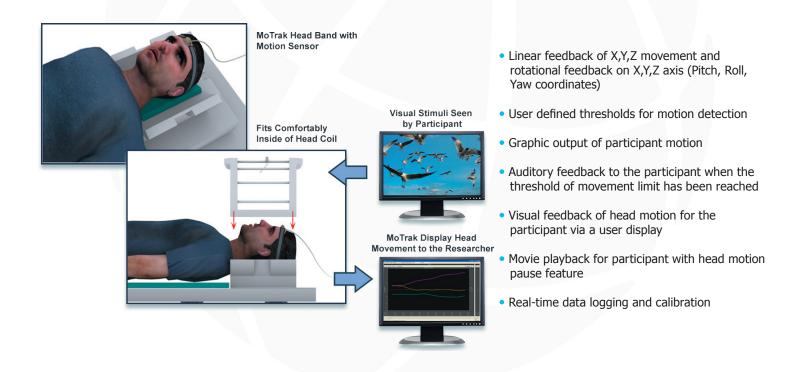
MoTrak[®] Head Motion Tracking System

MRI studies require extended periods of scanning with minimal participant movement. A participant's movement during a scan can result in unusable data and lost funds. In a simulator, the participant can simultaneously be habituated to the MRI environment, while being trained to remain still via feedback from the MoTrak system. MoTrak software uses Ascension Technology's Flock of Birds.



The sensor attaches to the participant's head to determine the position of the head in space relative to the transmitter. The sensor records angular rotations as well as positional displacements from an initially calibrated position. The goal is to monitor how much the participant moves while the scan is in progress. This information is displayed and logged by the program in real-time, allowing observation of head motion in an MRI simulator.





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