I Measure position and orientation of devices in real time
I Locate tips of instruments in 3D space
I Guide flexible tools internally to anatomical targets
I Control catheters in computer-assisted procedures

microBIRD provides fast, accurate tracking of two diminutive sensors per electronics card referenced to a DC magnetic field transmitter.

1.8 mm Sensor

Miniaturized DC Magnetic Sensors for Intra-body Navigation and Localization

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- Locate tips of instruments in 3D space
- Guide flexible tools internally to anatomical targets
- Control catheters in computer-assisted procedures

Applications for a medically-certified microBIRD:
- Intra-body navigation
- Computer-assisted procedures
- RF ablation
- Image-guided intervention and therapies
- Robotically-controlled surgery
- 3D Ultrasound
- Electrophysiology
- Brachytherapy
- Telerobotics and telesurgery

Regulatory Certifications
microBIRD is a general-purpose motion tracker suitable for many applications. Biomedical references in this document are examples of what medical companies can do with microBIRD trackers after obtaining all necessary medical certifications. Ascension trackers are not certified for use in medicine without the end user/OEM complying with all pertinent FDA/CE regulatory requirements. ATC 4/04

Notes on Accuracy: Accuracy is defined as the root mean squared (RMS) deviation of a true measurement of the magnetic center of a single sensor with respect to the magnetic center of a single transmitter measured over the translation range. Accuracy varies from one location to another over this translation range and will be degraded if there are interfering electromagnetic noise sources or metal in the operating environment.