

KENDRION SOLUTIONS

Innovative Tumor Navigation with the Sirius Pintuition System

To facilitate breast-conserving procedures, Sirius has developed an innovative tumor localization system together with 3T. The Sirius Pintuition System. A titanium-encased magnet, precisely positioned through a fine needle, serves as the key to precise tumor localization. An additional specialized probe, inserted through a minimal incision, measures the magnetic field and determines the magnet's location. The system then provides the surgeon with valuable visual and auditory guidance during the procedure. This innovative approach is intended to optimize cosmetic outcomes but also facilitates an increased number of breast-conserving surgeries and greatly improves patient comfort when compared to the commonly used wire localization method.

3T supported Sirius as a development partner in the realization of the Sirius Pintuition System. The highlight is a probe that can precisely measure the magnetic field around the location of the tumor due to the magnet placed in its center, while at the same time being compact and convenient to

use. With Model-Driven Development, 3T's area of expertise, a sophisticated mathematical algorithm was developed in collaboration with a third-party provider to determine the position of the magnet with millimeter precision. 3T also assisted Sirius Medical in getting market approval for Europe and the North America region.

Product features

- Intuitive user interface
- Real-time directional guidance using audio and visual feedback
- Point-source localization without radioactive markers
- Millimetre accuracy
- Improved patient comfort compared to wire localization
- Flexible surgical planning
- Optimized detection algorithms through model-driven development
- Software compliant with 62304 standards
- Product fulfills the requirements of 60601-1 and 60601-1-2

sirius medical 



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