



Guiding the Future of Radiation Oncology™



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900-02-00-001 Rev. 00





The RealTrack™ Technology

Navotek's RealTrack™ technology is designed to localize and track minute radioactive sources within the human body. The intra-body trackable source emits photons that can be detected by Navotek's unique array of detectors located outside the patient's body. These detectors are designed to localize the intra-body source in 3-dimensional space with submillimeter accuracy and to track its location in real time.

Navotek's first product based on RealTrack™ technology is RealEye™.

RealEye™ is a patient positioning and monitoring system for high precision radiation therapy which localizes and tracks the RealEyeable™ tracer, implanted trackable fiducial. The first application will be for prostate cancer treatment.



Getting you there accurately

RealEye™'s real-time tracking capability is aimed at supplying continuously updated target position information for accurate patient positioning and treatment. Designed to be insensitive to metal interference, RealEye™'s underlying RealTrack™ technology should maintain accuracy – even in close proximity to metallic objects.

Getting you there quickly

RealEye™'s objectivity and ability to operate in real-time should enable quick, highly accurate patient positioning. This new device may allow the physician to treat more patients with the existing staff and equipment.

RealEye™ is designed to enable monitoring of target location throughout radiation therapy, ensuring precise treatment while minimizing the risk of damage to healthy tissue

Disclaimer: The RealEye™ system and the RealEyeable™ tracer are investigational devices whose performance characteristics have not yet been established. Navotek is planning to conduct a clinical trial of these devices in the near future.

Getting you there easily

- The RealEyeable™ tracer implantation device is outfitted with an ultra-thin needle and a spring-loaded trigger mechanism designed for easy implantation.
- The RealEye™ user interface is designed to provide clear, objective and user friendly indication of the target location and instructions for accurate couch positioning.

Getting you there safely

- As RealEye™ is designed to reduce the need for anatomical imaging. Its use has the potential to significantly lower the patient's exposure to non-therapeutic radiation, despite the RealEyeable™ tracer's minute radioactive emissions.
- The RealEyeable™ tracer is designed to avoid inducing significant image artifacts in MR images. Therefore, its presence does not restrict the use of magnetic resonance imaging for radiation planning, treatment monitoring, and/or future diagnostic imaging.
- RealEye™ monitors the target location throughout the treatment. The system provides a warning in case of target movement above a predefined threshold. This may allow stopping the treatment and adjusting the patient position in order to spare the healthy tissue surrounding the target