



Advanced guidance system for minimally-invasive cancer surgery

Using next-generation miniaturized sensor technology, the SENSEI[®] probe measures just over 40mm in length, enabling unprecedented intracavity maneuverability and anatomic access for surgical precision

Designed for radio-guided laparoscopic sentinel node detection and targeted localization, the SENSEI[®] disposable probe is sterile and compatible with standard manual and robotic graspers



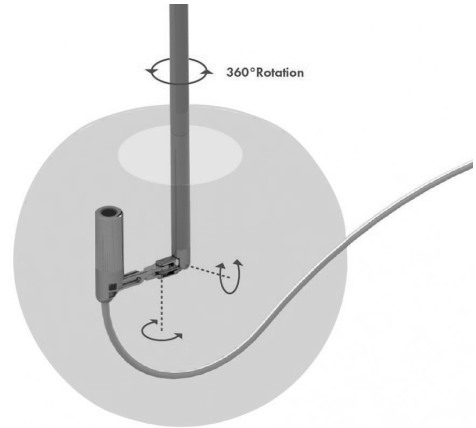
SENSEI[®]
www.senseisurgical.com

'The probe is more versatile and easier to manipulate than a rigid, hand-held probe'.

Prof. Dr. Boris Hadaschik, University Hospital Essen, Germany

Unprecedented access

SENSEI® is designed for intracavity use with a standard tissue grasper. The probe is just over 40mm in length, ideal for both manual and robotic minimally-invasive (MIS) procedures. When used with an articulating grasper, this miniature probe allows for unparalleled maneuverability, expanding the field of view and enabling the quick localization of radioactive hotspots in multiple locations. Attached to a 3-metre lightweight cable, the probe can be easily extracted through a standard 12mm entry port.



Intended use

SENSEI® is comprised of a tethered probe connected to a mains powered control unit. The system is intended to detect and quantify gamma radiation emitted by a radiopharmaceutical by displaying an audio and graphical display on the control unit. SENSEI® is indicated for use during sentinel lymph node biopsy in adult patients diagnosed with prostate, endometrial, and cervical cancer. A DVI connector enables connection to an external display, for example on a surgical robotic platform.

Simple to use and cost effective

The SENSEI® probe is a sterile, single-use probe that doesn't require a sterile sheath or reprocessing between procedures. This eliminates the risk associated with sheath tears and punctures, as well as those associated with inadequate processing. This can also reduce costs associated with probe loss and damage, as well as hospital liability due to cross-contamination.



SENSEI® performance*

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|----------------------|-----------------------|
| MAX count rate | 99,999 CPS |
| Sensitivity | 1200 CPS/MBq at 30mm |
| Angular resolution | 43 degrees FWHM |
| Lateral resolution | 29mm FWHM at 30mm |
| Background rejection | >99.9% |
| Energy window | 122.5 KeV - 157.5 KeV |

*Preliminary results

Lightpoint Medical

Founded in 2012, Lightpoint is a technology leader in targeted cancer surgery. Our mission is to improve the lives of people with cancer by transforming the efficacy of minimally invasive surgical procedures. We are doing this by designing miniaturized sensing and imaging tools for advanced intra-operative cancer staging and detection.

SENSEI® is currently for investigational use only

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