



GammaSens

GammaSens is an intra-surgical gamma radiation detection device which provides exceptional precision and ease of use to assist the lymph node and/or tumor localization. It is commonly used for sentinel lymph node detection. Our new system breaks the current paradigm of this device by integrating the sensor and control unit. Its main characteristics are:

- Significantly reduced size and weight.
- Rechargeable battery based
 - Typical autonomy of 7 hours
 - Standard micro USB charger
- 2.4" touchscreen incorporated display.
- Wide energy range: 60 to 700 keV.
 - It includes 18F (FDG)
- Digital and analog display indication
 - Automatic analog ranges of 1000, 5000 and 20000 CPS
- Two different types of sound indication:
 - Pulsed for measurements less than 200 CPS
 - A continuous tone of variable frequency for measurements over 200 CPS
- Visualization of the energy spectrum in order to adjust the isotope's energy window.
- Possibility of rotating the display.
- 10 seconds count feature.
- Modern design & ease of use.

Control unit specifications:

Interface	Color LCD backlighted display Touchscreen Size: 2.4 in Resolution: 240 x 370
Output	Pulsed / Frequency modulated sound Digital indication in Counts Per Second (CPS) Analog indication with automatic ranges of 1000, 5000 and 20000 CPS
Power supply	Internal battery Autonomy: 7 hours
Charger	5 V, microUSB
Isotopes	6 – Preconfigured and customizable within the energy range of the sensor
Features	Activity count, CPS 10 sec count Energy spectrum: 60 – 700 keV
Portability	Portable, autonomous and ergonomic device
Maximum range	20000 CPS
Size	116 mm x 63 mm x 31 mm

SGRP2 sensor specifications:

Detector material	BGO (Bismuth Germanate)
FWHM @662 keV, 25°C	100 keV
Energy range	60 keV – 700 keV
Size	Total length: 164±1 mm Handle diameter: Ø16±0,1 mm Head length: 30±0,5mm Head diameter: Ø17±0,1 mm
Material	Stainless steel