



- SMART
- SIMPLE
- PRECISE

Navigator™ **Gamma-PET Probe**

Detects PET radiopharmaceuticals such as ¹⁸F-FDG during surgery

Navigator™ Gamma-PET Probe detects the 511 keV photons that proceed from tissue tagged with PET pharmaceuticals such as ¹⁸F-FDG. Navigator Gamma-PET probe is shown above with the new Navigator GPS control unit that shows the selected isotope.

- Localize tissue labeled with PET pharmaceuticals such as ¹⁸F-FDG.
- Scan excised tissue for PET pharmaceutical activity.
- Hand-Held Probe. Use in a sterile drape.
- Probe shielding gives directionality to 511 keV energy photons.
- Easy set-up for use. Connects to Navigator™ GPS Control Unit.
- Navigator™ GPS Control unit displays 511 keV signal as "counts per second" and a "ten second count". Also audible output.

511 keV Annihilation Photons are also popularly called Gamma Photons

When a positron emission tomography (PET) pharmaceutical such as fluorine-18 fluorodeoxyglucose (¹⁸F-FDG) decays, a positron is emitted. The positron travels through tissue and, after about a 1 mm distance, interacts with an electron. Both are annihilated. Two annihilation photons of 511 keV energy are produced, and move in opposite directions. These photons typically are detected by PET scan systems which create PET images. In surgery, the Navigator Gamma-PET Probe detects the 511 keV photons that proceed from the targeted tissue to the probe.

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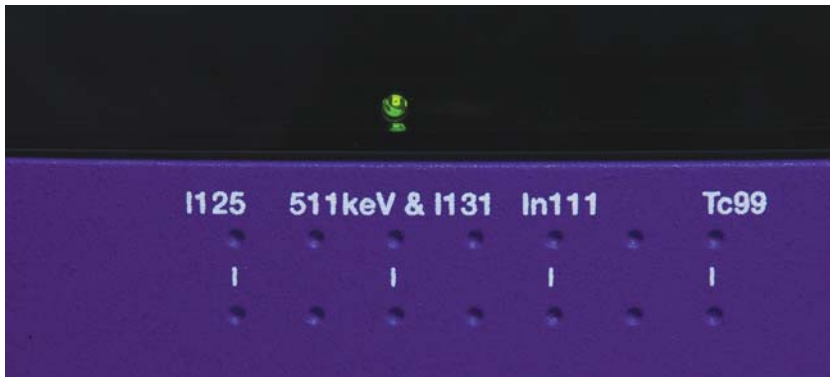


Navigator™ **Gamma-PET Probe**

Navigator™ Gamma-PET Probe System

Consists of probe, cable, and module. Probe tip is 32 mm in diameter. Probe length is 20 cm. Cable length is 9 feet. Module connects directly to Navigator control unit. The Navigator™ Gamma-PET Probe system is RMD order code **E097300**.

Use Probe with New and Existing Navigator GPS Control Units



Isotope Indicators

The new Navigator™ GPS control unit includes ISOTOPE INDICATORS in the front panel display that confirm the system is configured to detect 511 keV. The RMD order code for Navigator™ Gamma-PET probe system and new Navigator™ GPS control unit is **E297300**.