Miscelaneous

NEOPROBE GDS

ABOUT

The **NeoProbe GDS (Gamma Detection System)** is a sophisticated, handheld intraoperative gamma probe designed for the precise localization of radiolabeled tissues during surgical procedures, most commonly in sentinel lymph node biopsies and other oncologic surgeries. It provides surgeons with real-time auditory and visual feedback to guide the identification and excision of target tissues containing radioactive tracers, such as Technetium-99m.

FEATURES

- **High Sensitivity & Collimation:** Features a highly sensitive detector and focused collimator to precisely locate low-energy gamma emissions.
- **Energy Discrimination:** Includes adjustable energy discrimination settings to optimize detection for specific radioisotopes.
- **Dual-Mode Operation:** Offers both a “Survey” mode for general localization and a “Precise” mode for fine discrimination and confirmation of excised tissue radioactivity.
- **Durable & Portable:** The system is built for the rigors of the operating room, with a rugged design and a rechargeable battery pack that supports extended procedural use.

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SPECIFICATIONS

DIMENSIONS

Height: 9 in (22.9 cm)

Width: 12 in (30.5 cm)

Depth: 10 in (25.4 cm)

Weight: 5.6 lbs (2.5 kg) console weight.

POWER

Input: 100-240 VAC, 50-60 Hz.

Power Consumption: 26W nominal, 38W maximum.

Heat Output: 70 dB Sound pressure level at 1 meter

DETECTION & AUDIO

Detector: High-sensitivity Cadmium Zinc Telluride (CZT) solid-state crystal.

Audio Guidance: Sound Pressure Level of 70 dB at 1 meter.

ENVIRONMENTAL CONDITIONS

Operating Temperature Range: 50° to 104°F (10° to 40°C)

Storage and Transit Temperature: -40° to 104°F (-20° to 60°C)

Storage and Transit humidity: 10% to 95%

Storage and Transit Atmospheric Pressure: 7.3psia to 15.4psia (500hPa to 1060hPa

PROBES

Probe Options: 10mm wireless (high-sensitivity) and 14mm (wireless or corded) probes, available in straight and angled configurations.

Laparoscopic Probe: 11mm Bluetooth laparoscopic probe with a 90° field of view.