

neoprobe® GDS

Bluetooth® Probes 14 mm

Probe	Product Code
neoprobe® Bluetooth® Probe 14 mm Straight	NPB 14S
neoprobe® Bluetooth® Probe 14 mm Angled	NPB 14A

Bluetooth® 11 mm Laparoscopic Probe

Probe	Product Code
neoprobe® Reusable Laparoscopic Bluetooth® Probe 11mm including Accessory Case	NPB 11L

Corded Probe 14 mm

Probe	Product Code
neoprobe® Detector Probe 14 mm Straight (corded)	NPR 14

Complete unit requires in addition

Product	Product Code
neoprobe® GDS Control console	NPCU3
External Collimator 14 mm (complete flexibility on one probe)	NPE14
Accessory Case for probes	NPA71
Detector probe Cable	NPA76

To Upgrade your current unit (neoprobe® model 2000, 2100 or 2200)

Probe	Product Code
neoprobe® Bluetooth® Probe 14 mm Straight	NPB 14S
neoprobe® Bluetooth® Probe 14 mm Angled	NPB 14A
neoprobe® Bluetooth® Serial Port Adapter (SPA)	NPBAK

Battery for Bluetooth® Probes

Uses Lithium-Ion (Lithium Manganese) CR-123 disposable (10h of continuous operation with Duracell Ultra 123) or rechargeable batteries (5h of continuous operation with North American Battery Company UltraLast 123)

Sterility

- Sterile Sheath for 14 mm Bluetooth® Probes
 - Civco Model 610-006 (4.6 x 61 cm CIV-Flex)
 - Civco Model 610-844 (2.6 x 30 cm polyisoprene NeoGuard®)
- Sterile Sheath for 11mm laparoscopic Bluetooth® Probes
 - Civco Model 610-658 (15.2 x 244 cm Sterile Laparoscopic Transducer Cover)
- or by using e.g. the STERRAD® or STERIS® sterilization system

For complete product details and handling, please see Instructions for Use.

Note: CIVCO Medical Instruments may change part numbers without notice. For latest information on these sheaths, contact CIVCO Medical Instruments. Products of CIVCO are not distributed by Ethicon Endo-Surgery. Ethicon Endo-Surgery is not responsible for any failure or malfunction due to the usage of these products.

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Breast Care

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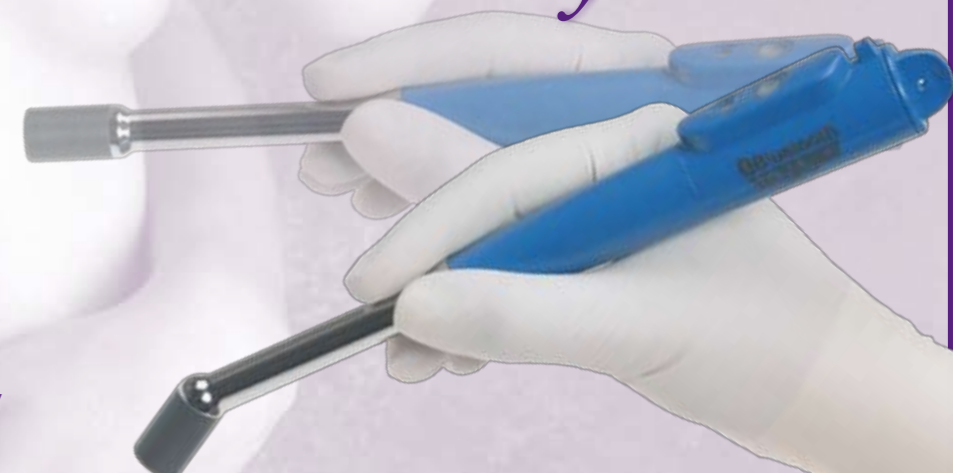
Ask for your free neoprobe® trial

*The
State-of-the-art
System for
Radio-Guided
Surgical
Applications*

Freedom is the point

neoprobe® GDS Gamma Detection System

- Higher sensitivity
- Cable-free



Breast Care

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Ordering Information

neoprobe® GDS Gamma Detection System

Gamma Detection System

High Performance

- Superior sensitivity: Ability to better detect radioactivity from nodes
 - 50 % more sensitive than current 14 mm probe (NPR14)

Lightweight design

- 2.5 kg (5.6 lb.) weight is easy to transport
- Built-in handle makes transport easy

Ease of Use

- Integrated Bluetooth Wireless Technology
- Ease of handling and mobility in the OR
 - Cordless probe with single user-controlled button
 - Ergonomic design accommodates pencil or palmar grip
 - Wireless interface with range no less than 10 m
 - User control button initiates target counts from surgical field
- Flexibility to accommodate body contours
 - Angled (30° distal tip) and straight probe options
- Laparoscopic probe option
 - orthogonal field of view (90°) for easy access to deep organs
 - fits in 11 and 12 mm trocars

Easy to read, illuminated display

- Can be seen in all lighting conditions and viewing angles
- Readings can be viewed from across the OR

With all the Existing Benefits of neoprobe® Technology

- User selectable energy threshold for four common radionuclides: ^{125}I , $^{99\text{m}}\text{Tc}$, ^{111}In and ^{131}I
- Simple user interface defaults at start-up to Lymphatic Mapping mode, without need for calibration or manual windowing
- Stable design precludes instrument drift, eliminating need for calibration
- Software upgradeable to maintain peak performance in changing surgical environment permits significant feature enhancements without need for hardware upgrades
- Connection to a PC
 - Field software upgrade for future improvement in your facility
 - Access to window settings
 - Access to sound options (4 different sound options)
 - Access to counts acquisition settings
 - Up to 4 profiles can be permanently recorded in the system
- Fast-counting algorithm minimizes surgical delays while enhancing counting accuracy
- Auto-ranging for audio feedback provides sensitive dynamic audio response, 4 count ranges
- Dynamic and binary pitch options
- More than 400 clinical citations attesting to Neoprobe Corporation's instrument utility and leadership

Control Module

• Operating power	AC line power 100 – 240 VAC (50 – 60 Hz)
• Power consumption	26 watts, nominal / 38 watts, maximum (at high volume)
• Heat output	Negligible (10 watts, nominal)
• Audio	70 dB sound pressure level at 1 meter
• Energy range	12 – 600 keV internal windowing resolution
• Maximum count rate	99,999 cps
• Height	22.9 cm (9 in.)
• Width	30.5 cm (12 in.)
• Depth	25.4 cm (10 in.)
• Weight (approximate)	2.5 kg (5.6 lb.)

Bluetooth® Probes 14 mm

• Crystal	Cadmium Zinc Telluride, CdZnTe
• Energy Range	27 – 364 keV
• Detector efficiency for ^{125}I (27 – 35 keV gamma-ray energy)	> 90 %
• Detector efficiency for $^{99\text{m}}\text{Tc}$ (140 keV gamma-ray energy)	> 76 %
• Detector efficiency for ^{111}In (140 keV gamma-ray energy)	> 60 %
• Detector efficiency for ^{131}I (364 keV gamma-ray energy)	> 25 %
• Operating temperature range	15° to 40° C (59° to 104° F)
• Storage and transit temperature	-20° to 60° C (-4° to 140° F)
• Storage and transit humidity	10 to 95 %
• Storage and transit atmospheric pressure	500 hPa to 1060 hPa (7.3 psia to 15.4 psia)

Probe performance

Performance	Probe				
			Corded 14 mm	Bluetooth 14 mm	Bluetooth Lap (11mm)
Sensitivity	In Air	UnCollimated	9500	14190	4270
	In Air	Collimated	4054	6080	N/A
FOV at 40 mm	In Air	UnCollimated	125 degrees	125 degrees	62 degrees
	In Air	Collimated	50 degrees	50 degrees	N/A
Spatial Resolution at 10 mm	In Air	UnCollimated	26 mm @ 10 mm	26 mm @ 10 mm	N/A
	In Air	Collimated	15 mm @ 10 mm	15 mm @ 10 mm	N/A
Length			146 mm	241 mm	500 mm
Weight			101 Grams	240 Grams	179 Grams
Cable length			3.5 m	no cable	no cable

Sensitivity reported in Air at distance specified using ^{57}Co CPS/MBq

Features

Technical Specifications