

Medtronic

Engineering the extraordinary

Protecting patients quality of life, together.

Head and neck surgeries



Nerve integrity monitoring



NIM Vital™ Nerve Monitoring System

The NIM Vital™ system provides detailed intraoperative nerve condition information to inspire surgical strategy^{2,3,4} and help improve patient outcomes^{5,6,***}. Proprietary technology notifies you in real time of nerve condition – visually and audibly⁸.

NIM Nervassure™ continuous monitoring technology provides real-time feedback on nerve function so you can adjust course, if necessary, during thyroid surgery and other procedures affecting head and neck nerves.

NIM NerveTrend™ EMG reporting enables nerve condition tracking throughout a procedure, even when using intermittent nerve monitoring.



Intraoperative blood control and precise dissection^{*,**,1}



LigaSure™ Exact Dissector

Our LigaSure™ exact dissector is powered by the Valleylab™ FT10 energy platform. Its fine, curved jaw profile is engineered to:

- Deliver precise blunt dissection^{7,†}
- Optimise your ability to work in tight spaces^{7,‡}
- Enable a more efficient procedure^{7,8,§}

The LigaSure™ exact dissector also:

- Cools in 10 seconds after 5 activations⁸
- Makes cutting and sealing simple and intuitive^{7,¶}
- Reduces the need for instrument exchanges^{7,‡‡}
- Enables secure and atraumatic grasping of tissue^{7,††}



Parathyroid gland localization



PTeye™ parathyroid detection system

Confirm visually suspected parathyroid tissue in real-time during surgery.

PTeye™ is a probe-based intraoperative system to aid you in confirming suspected parathyroid tissue during thyroid and parathyroid surgery.⁹

PTeye™ system uses near-infrared autofluorescence to confirm visually suspected parathyroid tissue⁹ providing real-time confirmation with up to 96% accuracy.⁹

Pending Western European
commercialization



Precision in your hands. Efficiency in your OR. Patient quality of life preservation.

Synergy of technologies in Neck surgeries

LigaSure™ Exact Dissector, NIM Vital™ & PTeye™ system

Ordering information

Part Number	Description	Quantity
LF2019	LigaSure™ Exact Dissector	6
NIM4CM01	NIM Vital™ Console	1
NIM4CPB1	NIM Vital™ Patient Interface 4 Channel	1
NIMCAD400	NIM™ Incrementing Probe Adaptor	1
8225825	NIM™ Prass Standard Tip Incrementing Probe	3
8229736	NIM™ TriVantage EMG Tube 6.0mm	3
8229737	NIM™ TriVantage EMG Tube 7.0mm	3
8229738	NIM™ TriVantage EMG Tube 8.0mm	3
Pending Western European commercialization	PTeye™ console	1 each
	PTeye™ single-use probe	1 each
	PTeye™ foot pedal	1 each
	PTeye™ power supply	1 each
	PTeye™ power cord	1 each



References

- * Compared to conventional ligation, Ligasure™ technology has been shown to reduce blood loss by an average of 35%.
- ** Based on 17 papers published between 2008 and 2016 on Colorectal, Hysterectomy, and Thyroidectomy procedures. Represents a weighted area of data.
- *** Compared to visualization alone.
- † 22 out of 23 surgeons surveyed agreed.
- ‡ 21 out of 22 surgeons surveyed agreed.
- § Compared to the Harmonic Focus™+; 11 out of 12 surgeons surveyed agreed). & LigaSure™ small jaw 16 out of 16 surgeons surveyed agreed.
- Ω 23 out of 23 surgeons surveyed agreed.
- †† 19 out of 21 surgeons surveyed agreed.
- ‡‡ Compared to the Harmonic Focus™+; 10 out of 12 surgeons surveyed agreed.
- § 17 out of 17 surgeons surveyed agreed.
- 1. Based on #RE00107711 Rev A, Thermal Profile Comparison of Ethicon™ Harmonic Focus®+ vs. LigaSure™ Exact LF2019.
- 2. Dionigi G, et al. Why monitor the recurrent laryngeal nerve in thyroid surgery? J Endocrinol Invest. 2010; 33: 819-822.
- 3. Randolph GW and Dralle H with the International Intraoperative Monitoring Study Group. Electrophysiologic recurrent laryngeal nerve monitoring during thyroid and parathyroid surgery: international standards guideline statement. Laryngoscope 2011; 121:S1-S16.
- 4. Stopa M. Prognostic value of intraoperative neural monitoring of the recurrent laryngeal nerve in thyroid surgery. Langenbecks Arch Surg (2017) 402:957-964.
- 5. Thomusch O, et al. Intraoperative neuromonitoring of surgery for benign goiter. Amer J Surg. 2002;183(6):673-8.
- 6. Schneider R, Sekulla C, Machens A, Lorenz K, Nguyen P, Dralle H. Postoperative vocal fold palsy in patients undergoing thyroid surgery with continuous or intermittent nerve monitoring. BJS. 2015; 102:1380-1387.
- 7. Based on internal report #RE00114823, Validation labs: surgeon evaluation of LigaSure™ exact dissector, nano-coated. July 18 to 26, 2017.
- 8. Based on internal report #RE00107711 Rev A, Market research: Thermal profile comparison testing cooldown to below 60 C for the LigaSure™ exact dissector and the Ethicon Harmonic Focus™+ (conducted on porcine tissue). Aug. 29, 2017.
- 9. Innovative surgical guidance for label-free real-time parathyroid identification. Thomas G et al. Surgery. 2019 Jan;165(1):114-123. doi: 10.1016/j.surg.2018.04.079. Epub 2018 Nov 12.

See the device manual for detailed information regarding the instructions for use, indications, contraindications, warnings, precautions, and potential adverse events. For further information, contact your local Medtronic representative and/or consult the Medtronic website at medtronic.eu.

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