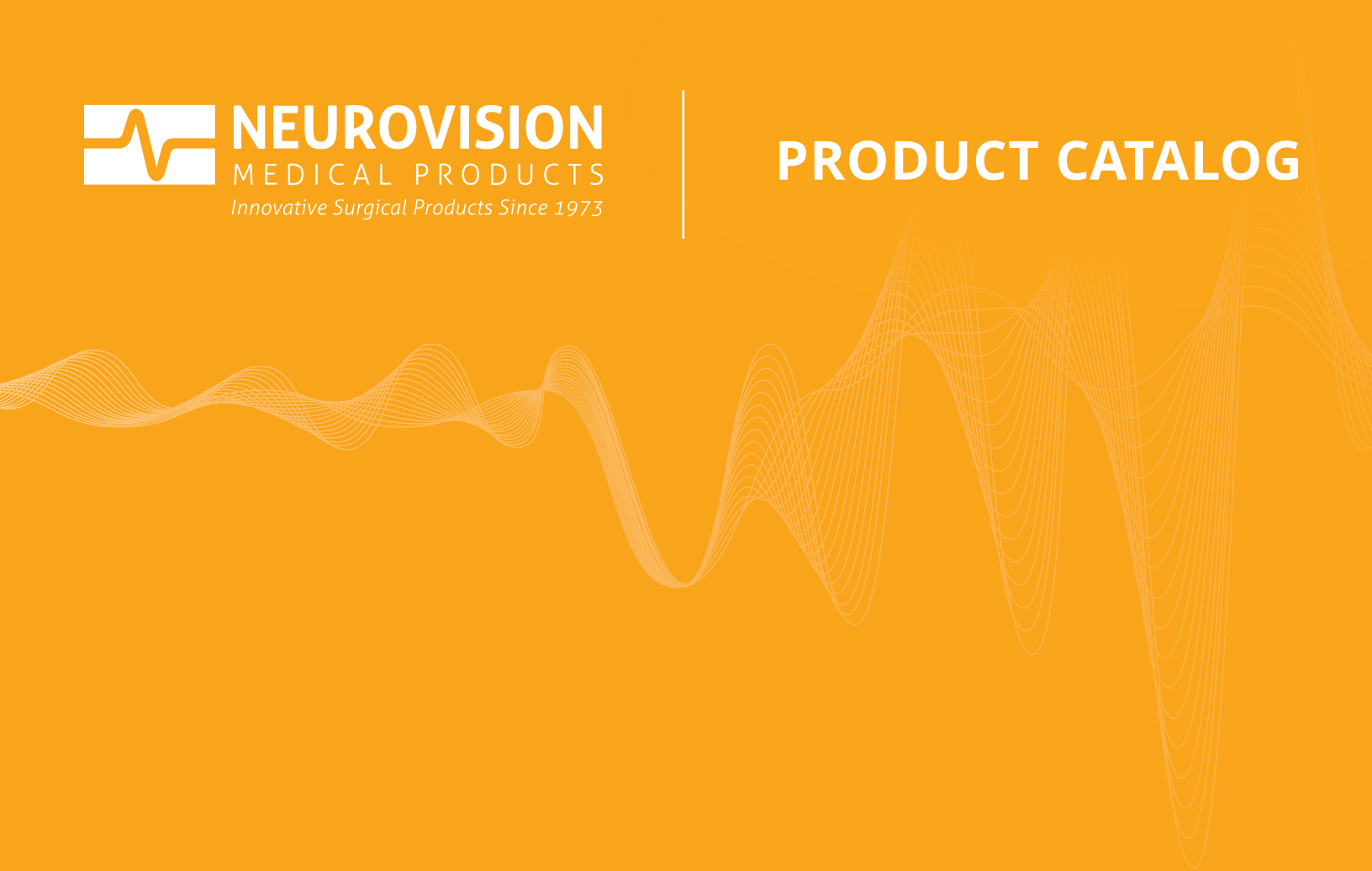




NEUROVISION
MEDICAL PRODUCTS
Innovative Surgical Products Since 1973

PRODUCT CATALOG



PRODUCT CATALOG 2024

Nerveäna Plus - Multi-Channel Nerve Monitoring System

Nerveäna Plus - IONM Surgical Kit

Hypoglossal Nerve Monitoring Kit

EMG Electrodes

Cobra 3 - EMG Endotracheal Tube

Dragonfly - Surface Laryngeal Electrode

Mastodon - Facial Nerve Monitoring Needle Electrodes

Stimulated EMG

DryTouch - EMG Stim, Frazier Suction Probes

Hummingbird - EMG Stimulation Probes

Scorpion - EMG Stim, Surgical Forceps

Surgical Accessories

ViClean - Wound Protector and Retractor, Dual Ring



PROACTIVE INTUITIVE EMG MONITORING

Dedicated To Real-time Nerve Identification and Preservation



- Eight-channels of EMG monitoring support variety of surgical procedures.
- EMGView[®] 8 visually expands nerve activity on screen to support informed decisions.
- Nerve Power Index[®] tracks EMG trends to analyze nerve condition in real-time.
- Preset procedures and custom surgeon profiles create an automated setup.
- Proactive[™] Nerve Monitoring design integrates IONM with the surgical technique.
- Patented technology assists surgeons in the prevention of neuropraxia and surgical nerve injury.

UNIQUE SURGICAL KITS

Neurovision Medical Products offers specialized surgical kits that enable EMG monitoring to locate and confirm nerve integrity.

- NV+ RLN Monitoring Kit with Dragonfly® Laryngeal ET Tube Electrode
- NV+ RLN Monitoring Kit with Dragonfly® and Hummingbird® Stim Probe
- NV+ RLN Monitoring Kit with Cobra® EMG ET Tube
- NV+ RLN Monitoring Kit with Cobra® and Hummingbird® Stim Probe
- NV+ Facial Nerve Monitoring Kit with Mastodon® Paired Needle Electrodes
- NV+ Facial Nerve Monitoring Kit with Mastodon® and Hummingbird® Stim Probe
- NV+ Hypoglossal Monitoring Kit

Please contact your NMP sales representative for more information about the Nerveäna Plus system and surgical nerve monitoring kits.

NERVEÄNA® PLUS

Eight-Channel, Intraoperative Nerve Location and Monitoring System



SYSTEM DESCRIPTION

NVP-S-T-ST

Nerve Monitoring System

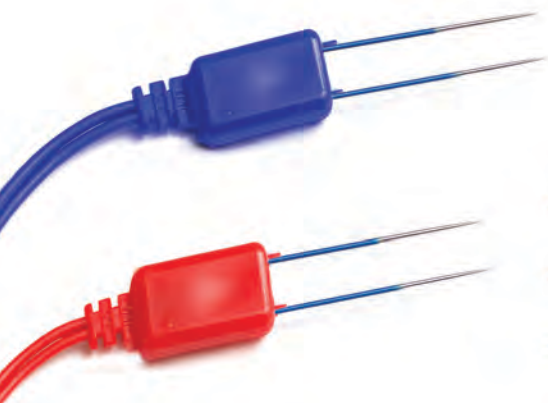
- NV+ Main Module with power supply
- 8-Channel Patient Interface Module with cable and attachment kit
- EMGView® 8 Nerve Monitoring Software
- 21.5" Touchscreen tablet PC with USB cable
- Lightweight, mobile IONM system and display station
- Muting Sensor with fiber optic cables

HYPOGLOSSAL NERVE MONITORING

IONM for Hypoglossal Nerve Stimulator Surgery

- Parallel needle hubs ensure precise electrode alignment.
- Insulated needles and twisted wires safeguard EMG signals.
- Paired needles for easy, reliable application in generator muscles.
- Pinpoint 28 gauge needles achieve intramuscular placement and reduce tissue trauma.
- Kit includes an extra electrode for orbicularis oris monitoring and procedural flexibility.

CARE - NEW IONM KIT - VALUE-BASED PRICING



- Surgeon-driven evoked EMG with a Hummingbird bipolar minifork (*optional*).
- Standard DIN connectors and color coding ensure a seamless integration.
- Interoperable. simplifies inventory and improves OR efficiency.

- Kit designed to identify the Hypoglossal nerve and confirm placement of the cuff during stimulator implantation.
- Tailored to deliver, essential, real-time EMG signals during a specific Obstructive Sleep Apnea (OSA) procedure.

NERVEÄNA+ SURGICAL KIT

HYPOGLOSSAL NERVE MONITORING FOR HNS THERAPY

Item Code	Kit Components
NVPTKIT-HYP-5	Electrodes: 1 Blue & 1 Red (paired, straight 18mm, Ø 0.45mm), 1 Purple (paired, straight 13mm, Ø 0.35mm), 1 Green (ground needle 18mm, Ø 0.4mm)
NVPTKIT-HYPB-5	Electrodes: 1 Blue & 1 Red (paired, straight 18mm, Ø 0.45mm), 1 Purple (paired, straight 13mm, Ø 0.35mm), 1 Green (ground needle 18mm, Ø 0.4mm), 1 Bipolar Minifork (probe length 100mm)

Essential to Value-Based Care. Harmonious to Value-Based Pricing.



UNIVERSAL PERFORMANCE OPTIMIZED DESIGN



3-PLATE EMG ENDOTRACHEAL TUBE

- Patented technology
- Large atraumatic electrodes enhance RLN monitoring
- Universal compatibility for single and multi-channel systems
- Hermetically sealed connection
- Standard ET tube
- Designed for precise placement
- Color coded wires and DIN connectors identify lateral vs. posterior plates



Item Code	Description
LTE7003PS-5	Cobra® 3-Plate EMG Endotracheal Tube, 6 mm
LTE7003PM-5	Cobra® 3-Plate EMG Endotracheal Tube, 7 mm
LTE7003PL-5	Cobra® 3-Plate EMG Endotracheal Tube, 8 mm

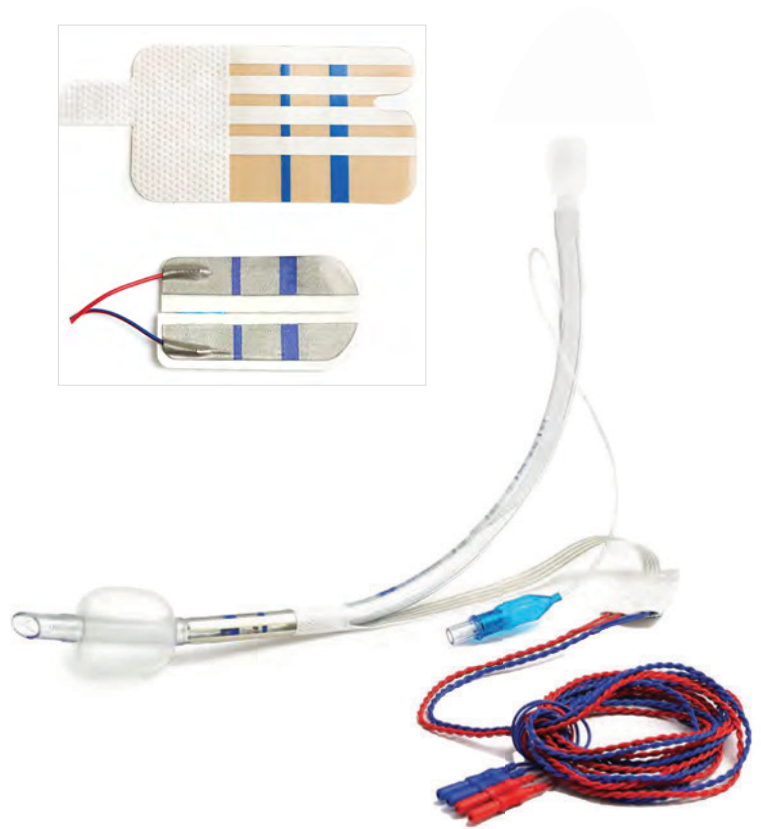
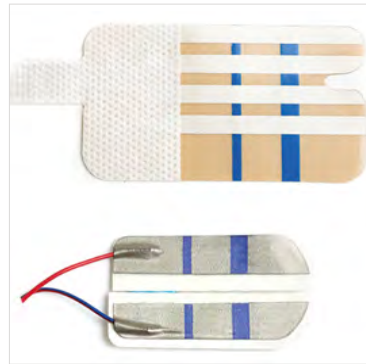
*includes STIM return needle and ground needle



SAFE RELIABLE UNIVERSAL

ATRAUMATIC RLN ELECTRODE

- Patented laryngeal electrode
- Universal function and compatibility^{1,2}
- 1-Ch and 2-ch designs apply to preferred ET tube
- RLN monitoring on ET tube sizes 2.5 - 10 Mm³
- EMG signal deliver real-time feedback⁴
- Identify and assess vagus nerve integrity



Patent # 8,634,894 and 8,467,844

Item Code	Description
LSE600MSP-5	Dragonfly EasyAim® 1-Channel Kit , EMG Electrode for ET Tube 2.5-5 mm <i>(requires reference electrode)</i>
LSE600MSP-5	Dragonfly EasyAim® 1-Channel Kit , EMG Electrode for ET Tube 6-10 mm <i>(requires reference electrode)</i>
LSE500MS-5	Dragonfly 1-Channel , EMG Electrode for ET Tube 6-7 mm
LSE500M-5	Dragonfly 1-Channel , EMG Electrode for ET Tube 7.5-10 mm
LSE500DCS-5	Dragonfly 2-Channel , EMG Electrode for ET Tube 6-7.5 mm
LSE500DCL-5	Dragonfly 2-Channel , EMG Electrode for ET Tube 8-10 mm

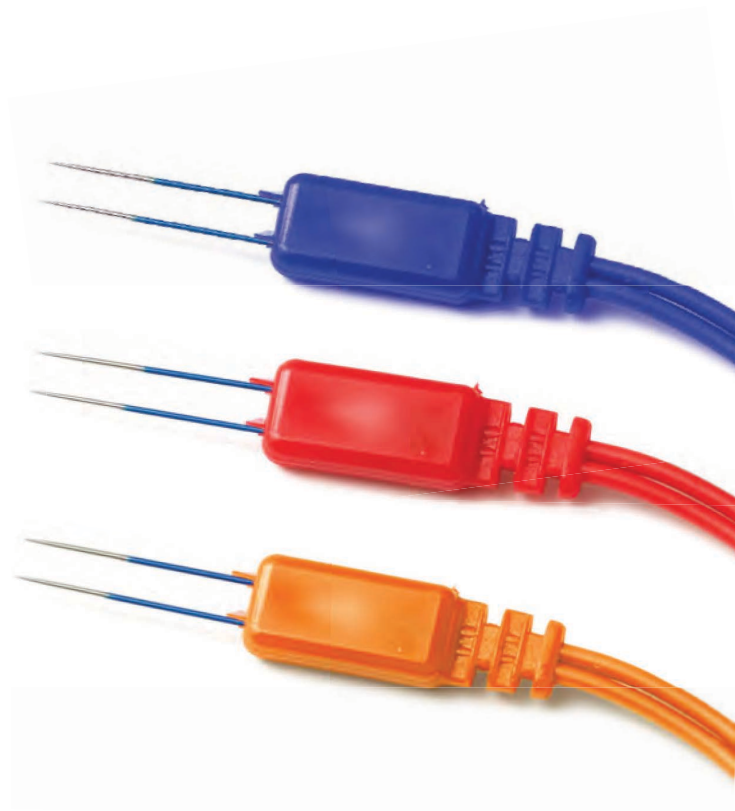
1. Chiu, Peter, et al. "Aortic elongation and bronchial splint for late bronchial complication after neonatal arch reconstruction." JTCVS techniques 8 (2021): 126-128.
 2. Crovther, Jason E., et al. "Intraoperative neuro monitoring during thyroid surgery: the effect of surgical positioning." Surgical Innovation 26.1 (2019): 77-81.
 3. White, W. Matthew, et al. "RLN monitoring during thyroidectomy and related cervical procedures in the pediatric population." Arch Otolaryngol Head Neck Surg. 135.1 (2009): 88-94.
 4. Lawlor, Claire M., et al. "Recurrent laryngeal nerve monitoring in pediatric surgery using a modified"



PRECISE DELICATE RELIABLE EMG

EMG NEEDLES FOR FACIAL NERVE MONITORING

- 13 mm needles reach optimal intramuscular location
- 28 G needles reduce skin trauma
- Parallel and affixed 2.5 mm apart for precise application
- Standardized for universal use, inventory management and overall efficiency
- Twisted wires and needle insulation protect EMG signals from interference
- Design features optimizes EMG signals that can improve FNM in otologic procedures interference



Item Code	Description
NPDC-5	Mastodon® paired needle electrodes, 2-Channel kit (red & blue), 13 mm, box of 5
NPFC-5	Mastodon® paired needle electrodes, 4-Channel kit (red, orange, blue, purple), 13 mm, box of 5



STIMULATION SUCTION IDENTIFICATION

NERVE MAPPING & SURGICAL SUCTION

- Ideal in a variety of complex procedures including:
 - ENT & Head and Neck
 - Spine
 - Neurosurgery
- Delicate, controlled suction integrated with continuous EMG stimulation, a 2-in-1 device that enhances surgical precision.
- Frazier keyhole valve improves suction control and precision for the surgeon to identify critical structures
- Monopolar stimulation is a safe and reliable option for motor and language mapping in Neurosurgery
- Approved for use beneath the blood-brain barrier
- Real-time brain mapping and neural identification in Neurosurgery.
- Compatible with standard suction tubing and most IONM systems



ORDERING INFORMATION:

DRYTOUCH® FRAZIER SUCTION TUBE WITH MONOPOLAR STIMULATION

Item Code	Description.*
PSS513DF-5	DryTouch, single-use Frazier suction stimulator, 13 cm working length, 5 French (ø 1.67 mm)
PSS13DF-5	DryTouch, single-use Frazier suction stimulator, 13 cm working length, 7 French (ø 2.33 mm)
PSS1013DF-5	DryTouch, single-use Frazier suction stimulator, 13 cm working length, 10 French (ø 3.33 mm)
PSS26DF-5	DryTouch, single-use Frazier suction stimulator, 26 cm working length, 7 French (ø 2.33 mm)

*each item code is a BOX OF 5 kits, each kit includes a STIM return needle and a ground needle



PRECISE FLEXIBLE VERSATILE



EMG STIMULATION PROBE

- Single-use monopolar probes assist in identifying motor nerves
- Available in three designs: Tapered Tip (TTP), Ball Tip, and Direct Nerve
- Universal compatibility for reliable Cranial Nerve stimulation on any IONM system
- TTP 0.5 mm tip and flexible shaft is ideal for ENT procedures



Item Code	Description
I-D-TTP90-5	Hummingbird Single-Use Tapered Tip(TTP), Monopolar Stimulation Probe, 90 mm
I-D-DNP90-5	Hummingbird Single-Use Direct Nerve Monopolar Stimulation Probe, 90 mm
I-D-BTP90-5	Hummingbird Single-Use Ball Tip Monopolar Stimulation Probe, 90 mm

*each kit includes STIM return needle and ground needle

DISSECTION STIMULATION PROACTIVE IONM



STIMULATING SURGICAL INSTRUMENTS

- Surgical forceps integrated with EMG stimulation
- Hemostats deliver monopolar stimulation to assist in precise dissection and nerve mapping simultaneously
- Instruments offer continuous monitoring of nerve activity in often delicate and complex procedures
- Real-time EMG signals can influence the surgical plan and improve patient outcomes



Item Code	Description
I-SHEM-M	Mosquito Forceps , Monopolar Stimulation, Fine Curved Tip, 5", Reusable
I-ATF714B	Adson Tonsil Forceps , Monopolar Stimulation, Fine Curved Tip, 7.25", Reusable
I-MCF512B	McCabe Forceps , Monopolar Stimulation, Fine Curved Tip, 5.5", Reusable
I-MF512B	Mixter Forceps (Right-Angle) , Monopolar Stimulation, Fine Tip, 5.5", Reusable

*each kit includes STIM return needle and ground needle

Surgical Dissection and Stimulated EMG Combined

- Innovative design ensures a reliable surgical performance and optimizes nerve preservation
- Stimulated EMG enables real-time nerve mapping and continuous monitoring
- Turn-key solution supports informed surgical decisions and efficiency
- Insulated surgical-grade hemostat allows for precise stimulation and tissue dissection
- Universal compatibility with IONM systems for seamless integration
- Value-based pricing ensures affordability without compromising on quality or performance

single-use
new pattern
EMG
forceps

INTEGRATED SURGICAL PRECISION

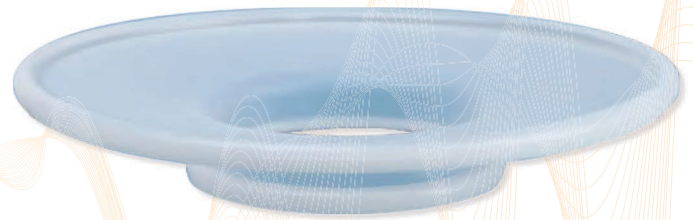
ORDERING INFORMATION: SCORPION® SURGICAL INSTRUMENTS

Item Code	Description:*
I-DK-WSF512-5	Monopolar Stimulation Forceps, Fine Curved Tip, Smooth Jaws, 5.5", Single-Use

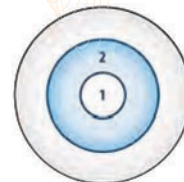
*each kit includes a STIM return needle and a ground needle



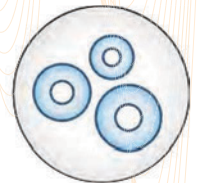
SAFE SECURE RETRACTION



Easy Insertion



Dual Ring



Multiple Sizes

DUAL-RING FIXED HEIGHT WOUND PROTECTOR

- Dual-ring wound protectors are associated with reducing superficial surgical site infection¹
- Flexible material inserts easily and provides gentle retraction
- Smooth silica gel wraps the incision to protect the surgical site from injury and wound contamination
- Applicable to various procedures from minimally invasive, (Thyroid, Breast, and Thoracic) to open (GI, C section, HPB)
- Unique design offer all-around protection for the patient and clinicians
- Additional sizes and styles are available, contact NMP for details

Item Code	Description
HZP1014	Wound Protector , Dual-Ring, Fixed Height, Incision Size 2 - 4 cm, Small
HZP1015	Wound Protector , Dual-Ring, Fixed Height, Incision Size 3 - 5 cm, Medium
HZP1016	Wound Protector , Dual-Ring, Fixed Height, Incision Size 4 - 6 cm, Large
HZP1017	Wound Protector , Dual-Ring, Fixed Height, Incision Size 5 - 8 cm, X-Large

1. Zhang, Lisa, Basheer Elsoh, and Sunil V. Patel. "Wound protectors in reducing surgical site infections in lower gastrointestinal surgery: an updated meta-analysis." Surgical endoscopy 32.3 (2018): 1111-1122.