NEUROTRONICS

Smart Intra Operative Monitoring (IOM) System

Compact Design
8 Channel Monitoring

Thyroid Surgery
Facial Nerve Surgery
Spine Surgery
Ent

Intraoperative nerve monitoring (IOM) is a technique designed to prevent nerve damage, particularly during surgeries like thyroidectomies, ENT procedures, and oral and maxillofacial surgeries.

Neurotronics (Pty) Ltd | SAHPRA | License Number - 00001714MD

It's compact-designed to prevent nerve damage, specially during surgeries of Thyroidectomy, ENT, oral and maxillofacial.

Recording channels	**8 channels**
Stimulation parameters	**0 – 30 mA, 1 - 30Hz, with safety setting**
Stimulation Pulse width	**20 – 250 μs in steps**
Feedback Display & Notification	**Visual display and audio feedback**
Default and customizable procedure settings	**Yes**
Data saving and reporting	**Yes**
Electrode status checking	**Yes**

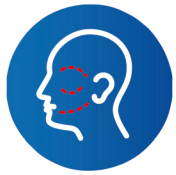
Smart IOM system is an intraoperative monitoring system which helps reduce the risk of nerve damage during various types of surgery and identify nerve functions before the end of surgery through monitoring of triggered EMG activities in multiple cranial and peripheral nerves

Smart IOM System continuously monitor EMG activity from muscles innervated by the affected nerve, when a particular nerve has been activated or stimulated, the system provide both visual and audio feedback.

TÜV SÜD ISO13485 Medical Devices Quality Management CE

CLINICAL APPLICATION

THYROID SURGERY



FACIAL NERVE SURGERY

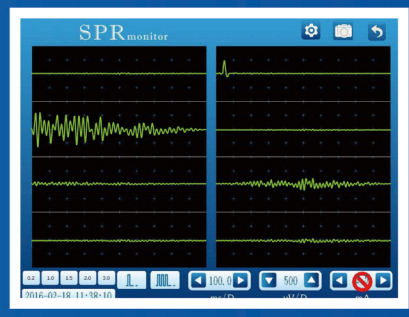
ENT

SPINE SURGERY

OUR ADVANTAGES

- This device can be used for different types of surgeries with different sets of accessories.
- The user interface has clear display with easy-to-follow on-screen instructions.
- Real-time impedance and stimulation intensity monitoring can help to check connection status of electrodes and probes.
- Convenient marking function during thyroid surgery to track important indicators during review.
- Default parameters are set according to the types of surgeries to be conducted, and the parameters can be customized for optimal performance.
- Professional SPR monitoring mode is useful for monitoring EMG output values of bilateral nerves for comparison and analysis.
- The smooth design of **Smart IOM** Endotracheal Tube can effectively prevent accidental vocal cord injury, and the electrode placement ring is designed for improved muscle contact.
- A wide range of unipolar and bipolar hypodermic needle electrodes and stimulation probes are available for various types of surgical requirements.

Touch screen
user friendly interface

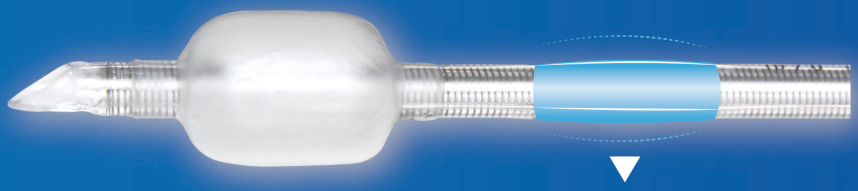


Professional SPR monitoring

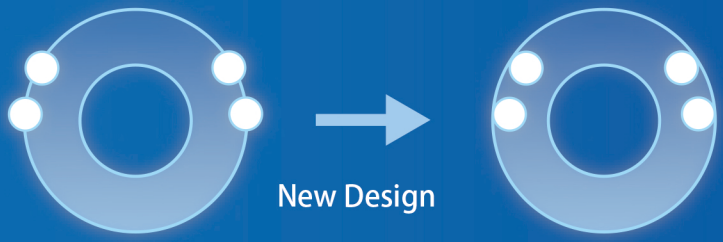
Customizable parameter setti

Convenient marking function

SPECIAL DESIGN EMG ENDOTRACHEAL TUBE



arcs design to prevent accident vocal contact with muscles.



Embedded in bilateral electrodes, the flexible EMG tube retains anatomical design blue marking for placement guidance

WET6.0	WET6.5	WET7.0	WET7.5	WET8.0

There are 5 tube sizes available to suit patients with different body sizes, and the built-in 4 / 8 electrode channels enable fast set up and accurate EMG signal display.

OTHER ACCESSORIES

Disposable Direct Nerve Stimulation Probes

Disposable Sub-dermal Needle

NEUROTRONICS

Medical Solutions for Surgical Intervention
Neuro & Orthopedic Surgery

DISTRIBUTORS OF:

SCALPELS
EMG TUBES
IONM DEVICES
IONM CONSUMABLES
IMPLANTS & INSTRUMENT SETS

+27 31 562 0006
www.neurotronics.co.za
info@neurotronics.co.za