



# KEEPING YOUR NERVE



With surgeon insight at the heart of our development process, the Neurosign® V4 Intraoperative Nerve Monitor is designed to help the surgeon preserve nerves, allowing the surgeon to concentrate on the surgery, confident that the monitor will warn of nerve proximity.

Neurosign® has built on a long history of experience to create the Neurosign® V4 Intraoperative Nerve Monitor, resulting in an integrated system that is intuitive, simple and upgradeable.



### SURGEON PROFILES

Surgeon profiles allow for personalised configurations to be created and stored in individual profiles. These profiles can be transferred between Neurosign® V4 Intraoperative Nerve Monitors.

# KEEPING YOUR NERVE

Neurosign® has a reputation for producing simple, reliable and cost-effective nerve monitors.



### REPORT GENERATION

- Capture screenshots both manually and automatically
- Save raw EMG data for further analysis
- Annotate each event
- Exportable to USB



### SURGICAL PROCEDURE

Default configurations for various surgical procedures enable rapid start-up.

The Neurosign® V4 Intraoperative Nerve Monitor continues this tradition, but uses modern technology to deliver a 4-channel intraoperative nerve monitoring solution - helping surgeons to preserve that nerve!

- **Workflow** - leading the user through logical steps to improve efficiency
- **15" color touch screen** - no stylus required, use your finger
- **Stimulator pod** - allows two stimulating probes to be connected simultaneously
- **Color coded channel inputs** - for easy use with color coded Neurosign EMG needle electrodes
- **Trolley system** - easily manoeuvrable with self-contained storage
- **Clear signal** - due to early digitization
- **Storage pockets** - provide storage for pre-amplifier pod, stimulator pod and mute sensor
- **Easy to clean** - no sharp corners, storage pockets can be removed for cleaning
- **Servicing** - replacement of complete assemblies by service trained personnel
- **Cost of ownership** - disposables provide a significant saving against other devices





Intuitive 15inch touchscreen display

Clear waveforms with peak-hold bar graph

Peak amplitude display

Clear stimulator value

Adjustable volume levels

## Main Features:

- Color coded channel inputs, pre-amplifier pod and on-screen channels - ensure that the correct electrodes are connected to the appropriate channels.
- Impedance checking - ensures reliable monitoring during the procedure.
- Primary stimulator for probe, to test tissue and map motor nerves.
- Upgradable pre-amplifier pod allows for additional application options.
- Manual controls to adjust volume and stimulator levels.
- Muting of electrocautery artefact - automatic muting of monopolar electrocautery and instrument-evoked artefacts.



## APPLICATION OVERVIEW

The Neurosign® V4 Intraoperative Nerve Monitor delivers outstanding performance across the following applications.

**Mastoid** - including Cochlear Implant, Middle Ear Surgeries

**Thyroid** - including Parathyroid

**Parotid** - including Submandibular Gland

**Skull Base Surgeries** - monitoring of V, VII, IX, X, XI, XII

**Selective Neck Dissection**



**NEUROSIGN<sup>®</sup>**



**Global Distribution:**

Technomed  
Amerikalaan 71  
6199 AE Maastricht-Airport  
The Netherlands  
Tel: +31 43 408 68 68  
info@neurosurgical.com



**Manufacturer:**

The Magstim Company Ltd  
Spring Gardens, Whitland  
Carmarthenshire, SA34 0HR  
United Kingdom  
Tel: +44 (0) 1994 240798

Your NEUROSIGN<sup>®</sup> Business Partner:

**Cephalon**   
*Your Neuro Partner*

© 2019, The Magstim Company Limited. Magstim<sup>®</sup> and Neurosign<sup>®</sup> are registered trademarks of The Magstim Company Limited. All specifications are subject to change. The information contained within this document is accurate at the time of publication.

[www.neurosurgical.com](http://www.neurosurgical.com)

PRESERVING NERVE INTEGRITY