

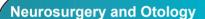
Nerve Monitoring: Defining our Standard of Care

The Neurosign 400 - Powerful Yet Simple Monitoring Of Motor Nerves During Surgery

Intended for:

Maxillofacial and ENT Surgery

- · parotidectomy
- mastoidectomy
- thyroidectomy
- · submandibular gland excision
- · selective neck dissection
- facial reconstruction



- · excision of CPA tumours
- · excision of spinal tumours
- removal of peripheral nerve tumours



With 4 EMG channels, a built-in stimulator and a powerful loudspeaker, the **Neurosign 400** is the ideal monitor when operating near a motor or mixed nerve. Use the monitor to locate and identify the nerve, and speed decision-making by using the stimulator to trace functional inter-branch fibres.

Neurosign is the most widely used monitor in Europe and has been established in the USA market for 19 years.

The Magstim Company, the manufacturer of Neurosign, is based in the UK and is able to provide practical product support, training and advice from experienced technical experts.

Neurosign - the sensible choice for an excellent monitor

- · no additional technical staff needed
- · mains powered
- · powerful audio of raw EMG gives immediate and intuitive feedback
- · range of single-use needles and stimulating probes promotes reliability and fixed operating costs
- · 'single button' operation makes setup as simple as possible

www.neurosign.com

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All the products carry the CE mark and comply with Medical Device Directive 93/42/EEC and are manufactured to Quality Systems BS EN ISO 13485.

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The **Neurosign 400** provides comprehensive motor nerve monitoring in an easy-to-use package. With a bright display panel and a powerful audio amplifier coupled with a 6" diameter speaker with excellent low-frequency response, the **Neurosign 400** provides all the information a surgeon needs when operating near a motor nerve. The stimulator allows the surgeon to identify and locate neural tissue with accuracy, using a variety of stimulating probes individually designed for specific surgical procedures.

The front panel is a flat, wipe clean surface, allowing access to all the more commonly used features in a single key press. The interface is intuitive to use, keeping the learning curve as short as possible.

All the electrodes and probes are single-use devices, ensuring reliability, quality of product, and giving a defined cost to each procedure.



Key features and benefits:

- · line powered no batteries to charge or run out
- 14W audio amplifier powerful enough to overcome background noise in the operating theatre
- Constant Current or Constant Voltage stimulator surgeon's preference
- switches ON in same state as when switched OFF in many theatres, the only button to press will be the ON/OFF switch
- store data in non-volatile memory, print results at the office
- individual surgeon's setups can be saved, easing theatre staff workload
- keypanel manufactured from bactericidal material to encourage safety in theatre
- Dedicated printer included with system

Specifications:

Display:

125 x 95mm electroluminescent, 320 x 240 pixels

Stimulator:

0.05mA to 5mA in 0.05mA steps
50mV to 5V in 0.05V steps
Constant Current
Constant Voltage
200µs pulse width (default); 100µs to 500µs range

Preamplifier:

Analogue 10V peak to peak output Channels: 4
Signal Input Range: $5\mu V$ to 10mV peak Bandwidth: 10Hz to 5kHz $\pm 3dB$ Noise: <10mV p-p at output Gain: 477

Consumables:

Twin needle electrodes, 20mm 4 per usage Single needle electrode, ground, 20mm 2 per usage Stimulating Probe 1 per usage

Stimulating Probe (single use):

Bipolar (general work and will penetrate 3 - 4mm)
Monopolar (general work, for mapping)
Concentric (very accurate, no real penetration)

For a complete list of available stimulating probes, please visit www.neurosign.com

Main Unit:

Digital signal processing, analogue audio
Audio 14W rms
115/230V 50/60Hz operation

Classification:

Class 1, Type BF applied parts EN60601-1; CSA 22.2601-1; CE marked

Physical:

Size 340 x 210 x 140mm Weight 8kg

Available from:

For a demonstration, please contact the Company

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