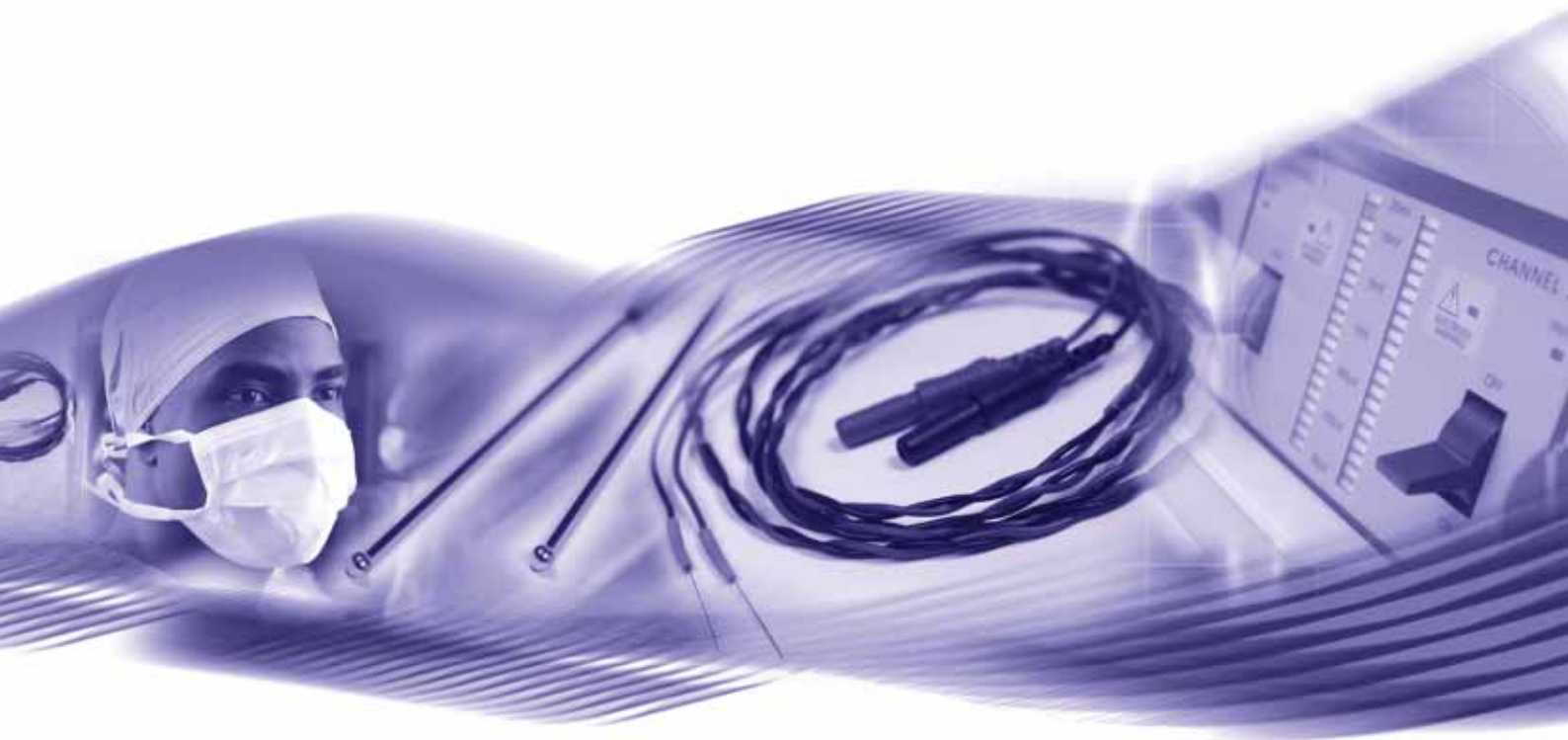




Pioneers in nerve stimulation and monitoring



Neurosign Needles and Probes
Intra-operative nerve monitoring

Precision instruments

Reduce the risk of nerve damage by using precision stimulating probes and needles, compatible with all Neurosign

intra-operative nerve monitors. The Neurosign range of high-quality sterile, single-use stimulating probes and needle electrodes draws on over 15 years of our experience in identifying and protecting motor nerves.

- **Single-use** Simply dispose of after surgery to eliminate cross-infection
- **Cost-effective** Ready-to-use individually sterile packed instruments provide a defined operating cost
- **Easy-to-use** Designed with simple connection points and comfortable handles

Stimulating probes

Neurosign stimulating probes have been tailored with specific surgical applications in mind. Flexible enough for a single bend of up to 30 degrees to be placed in the electrode shaft, all Neurosign probes can be easily used under a microscope.

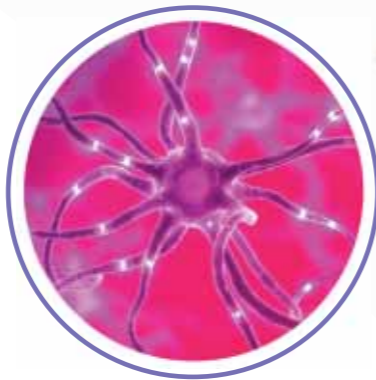
Parotidectomy

Neurosign stimulating probes are designed to aid the accurate stimulation of the parotid segment of the facial nerve.

Concentric probe – Recommended for parotid surgery, the Concentric probe is excellent for precision stimulation of the branches and interconnecting fibres of the facial nerve with minimal tissue penetration.

Bipolar probe – The first probe developed for the Neurosign range of monitors. This stimulating probe will stimulate through a small amount of tissue and remain accurate.

Precision Bipolar probe – The specialist Precision Bipolar probe has tips 1mm apart and is able to penetrate through a layer of tissue.



Mastoidectomy

For mastoid surgery, Neurosign probes have been developed to stimulate the exposed nerve directly or through a layer of bone in order to safeguard the facial nerve.

Bipolar probe – The most commonly used probe, the Neurosign Bipolar probe's 3mm gap between the probe tips makes it effective at stimulating through bone.

Precision Bipolar probe – The Precision Bipolar probe has tips just 1mm apart and can stimulate through bone using increased current whilst also being small enough to stimulate exposed nerve. With the cathode identified, the surgeon can be sure of exactly where the nerve lies. Developed specifically following experience with the Bipolar probe, the Precision Bipolar probe is highly recommended for mastoid surgery.



Skull-base surgery

For all intra-cranial surgery, the Concentric probe is recommended. With its precise nature, it allows accurate stimulation of sensitive cranial nerves with a minimum of current spread and is ideally suited for use under the microscope.

Tapered Monopolar probe – This stimulating probe has a shaft tapered from 1.5mm down to 0.5mm and is ideal for use under a microscope. Intended for use in conjunction with a single needle electrode, the Tapered Monopolar probe provides coarse stimulation of the tumour mass.

Monopolar probe – The Monopolar probe is intended for stimulating across the bulk of a tumour to determine whether a nerve is lying behind a structure.

Thyroidectomy

During thyroid surgery the Neurosign monitor and stimulating probe are used to identify and monitor the recurrent and superior laryngeal nerves.

Bipolar probe – The most widely used probe for this kind of surgery, the Bipolar probe will stimulate through layers of tissue, making identification of the nerve easier.

Concentric probe – The Concentric probe is also suitable for thyroid surgery when the nerve is fully exposed at the point of stimulation.

Spinal nerve roots

The Pedicle Screw probe is designed to stimulate the pilot hole prior to the insertion of a pedicle screw during spinal instrumentation procedures. The probe has a 3mm diameter uninsulated ball on the end of the insulated electrode wire and is also suitable for stimulation of the nerve roots.

Training and support

At Magstim, we recognise that surgeons and theatre staff must feel comfortable when using equipment and that the training of staff is extremely important. Providing excellent service and support, with on-site Neurosign training delivered in a way to suit you, we are here to help you and your team carry out safe, effective and efficient surgical procedures.

Stimulating needles and electrodes

Neurosign offers a range of needle electrodes suitable for use with the Neurosign range of intra-operative nerve monitors.



20mm Triple electrode

These electrodes ensure that the Neurosign 100 will always operate at peak efficiency by having sharp needles with a pristine recording surface.



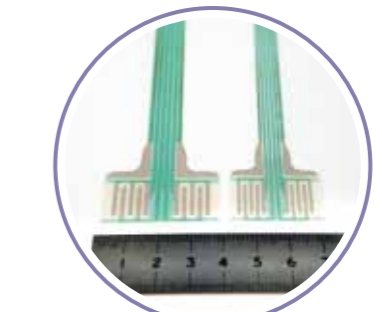
20mm Twin electrode

Red/black electrodes for connection to the Neurosign 400/800 preamplifier pod. Used in conjunction with the 20mm ground electrode.



20mm Ground electrode

Disposable single needle electrodes for use as ground or reference connections to the preamplifier. Also used as the return path for the monopolar stimulating probes.



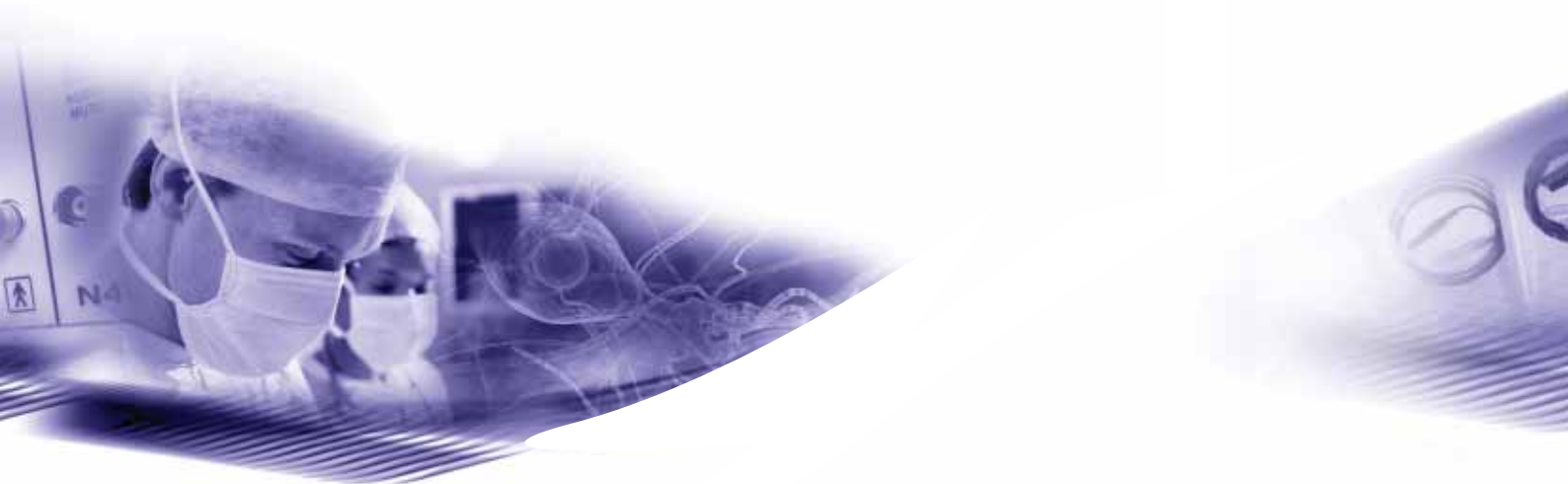
Laryngeal electrode

A single-use, sterile electrode which attaches to a standard endotracheal tube and is used to monitor the recurrent laryngeal nerves during thyroidectomy or para-thyroidectomy, or the vagus nerve during skull-base procedures.

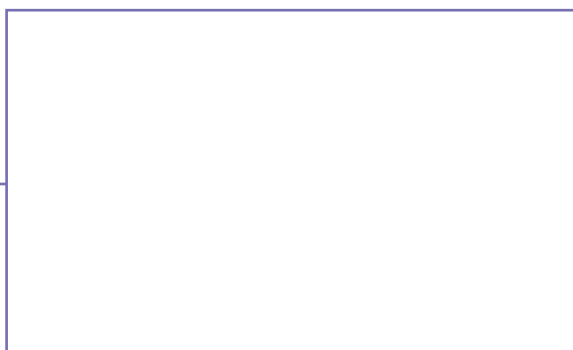


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For further information on clinical applications or product specifications,
please contact Magstim or your local distributor.



All standard products carry the CE mark, comply with the Medical Device Directive 93/42/EEC, and are manufactured under a Quality System certified to ISO 13485.

The Neurosign 100 is cleared by the FDA for Sale in the US, reference No K923056

The Neurosign 400 is cleared by the FDA for Sale in the US, reference No K053141 and K991583

Laryngeal Electrodes are cleared by the FDA for Sale in the US, reference No K071349

Disposable Pedicle Screw Probes are cleared by the FDA for Sale in the US, reference No K063729

Disposable Concentric Probes and Disposable Bipolar Probes are cleared by the FDA for the Sale in the US, reference No K050325

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