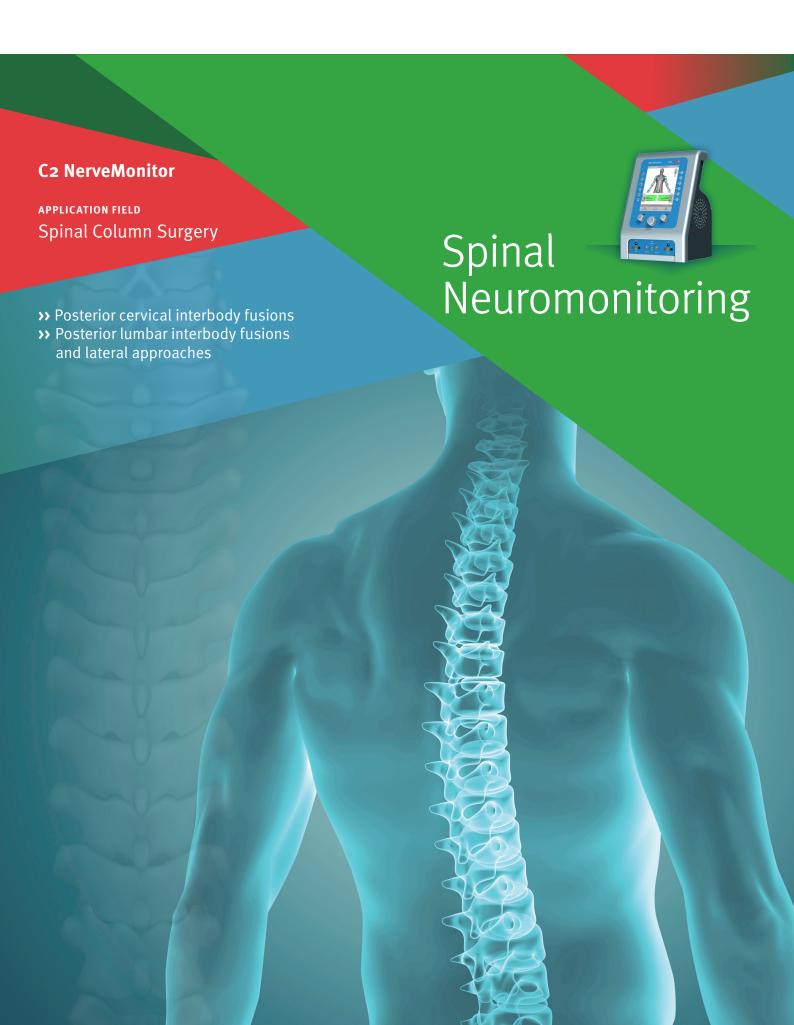
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C2 Spine Software

Neuromonitoring in Spinal Column Surgery

USER-FRIENDLY MEETS HIGH SIGNAL QUALITY

With its special C2 Spine Software, colour-coded accessories and needle positioning instructions, the C2 NerveMonitor helps to ensure efficient neuromonitoring during spinal column surgery in posterior cervical and lumbar interbody fusions and lateral approaches.

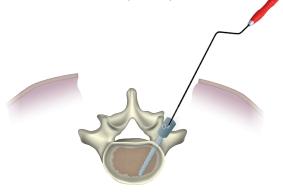
Due to its high signal quality and user-friendly operation, the C2 NerveMonitor is already being used in a large number of surgical disciplines. Whether open or minimally invasive procedures, with the C2 Spine System, surgical preparations are quick and easy. The wizard-based Spine Software provides intuitive user guidance.

CARACTERISTICAS

- >> Easy-to-use
- >> Clear view of EMG signals
- >> Specially developed C2 Spine Software
- >> Automated relaxation control
- Continuous and automated impedance monitoring for the measuring electrodes
- >> Barcode scanner for patient data
- >> Integrated database
- >> Colour-coded accessories

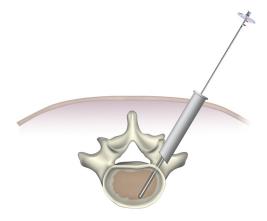
Pedicle screw placement

Positioning of pedicle screws can lead to perforation of the pedicle wall, which jeopardises the integrity of the surrounding spinal nerves. Therefore the C2 Spine Software is based on threshold values that clearly reflect the likelihood of pedicle perforation.



Open approach: Stimulation either directly in the drill hole or by electrification of the pedicle screw in order to monitor the integrity of the pedicle. A handheld stimulation probe is used for stimulation.

The Spine Software has been specially designed for the monitoring of spinal nerves during the positioning of pedicle screws.



Minimally invasive approach: The pedicle stimulation probe is inserted directly via the Kirschner wire. Stimulation takes place directly in the drill hole or by electrification of the pedicle screw in order to monitor the integrity of the pedicle.

Spine Software application

Wizard structure

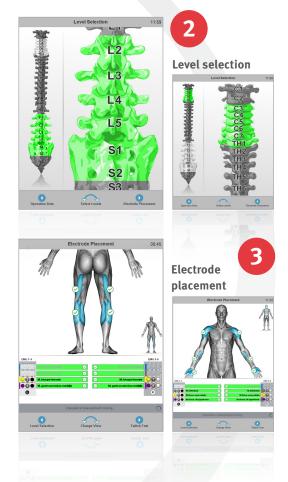
The user is guided through the intraoperative monitoring process step by step, beginning with entering the patient's data:

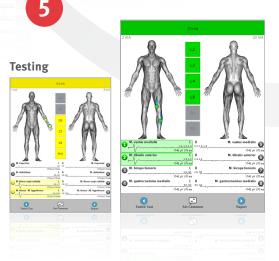


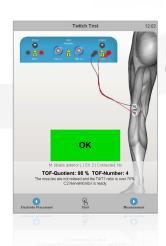


Entry of patient data







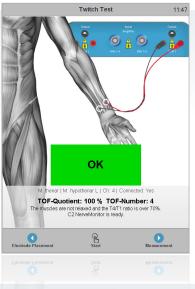




Relaxation control

To check the pharmacological relaxation status of the patient's muscles an **integrated Twitch Test (TOF test)** is applied. This is crucial for ensuring the perfect recording of signals during spinal surgery.

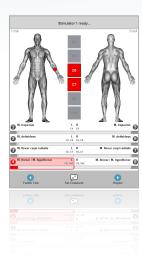


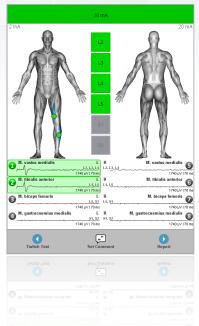


Measurement mode

While the software is in measurement mode, the patient's muscles are **continuously monitored for activity.**

If a relevant activity occurs, such as through direct mechanical manipulation of a nerve, the surgeon is immediately notified visually and acoustically. In addition, pedicle screw stimulation allows for automatic detection of the respective stimulation threshold value, thereby providing information on the integrity of the pedicle. This crucial information for spinal column surgery is provided and visualised quickly and easily.





Documentation

The C2 Spine Software **automatically stores all events**, commenting and listing them in the report. Users can therefore review each individual stimulation response at any time.







Spine Accessories



Art. No. 508 280

and mains lead

C2 NerveMonitor 8-channel system for intraoperative nerve monitoring. Easy to use EMG monitor with two integrated stimulation channels, including loudspeaker, footswitch

Art. No. 508 512

Spine Software-Modul for C2 provides automated functions for EMG monitoring and direct nerve stimulation in spine surgery, applicable for C2 software version 3.0





Art. No. 540 730 EMG adapter for colour-coded accessories

for maximal 8 colour-coded channels, differential, cable length 5 m

- > Delivered non-sterile
- > Non-autoclavable

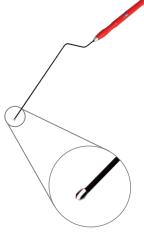
Art. No. 535 640

Spine Surgery Set for EMG Recording, posterior approach

colour-coded needle electrode set, 1.5 mm touchproof connector, 1x pair of electrodes coloured/black and

1x coloured/white, green ground electrode

- > Single use
- > ETO sterilised



Art. No. 525 615

Stimulation probe 130 mm monopolar, bayonet, ball tip

1.5 mm touchproof connector, bayonet, ball diameter 2.5 mm, work element length 130 mm, with counter electrode black, cable length 3 m

- > Single use
- > ETO sterilised

Art. No. 525 616

Stimulation probe 85 mm monopolar, straight, ball tip

1.5 mm touchproof connector, straight, ball diameter 2.3 mm, work element length 85 mm, with counter electrode black, cable length 3 m

- > Single use
- > ETO sterilised

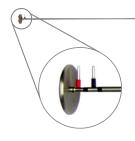


Art. No. 510 025

Mute sensor

to suppress HR interference signals, cable length 5 m

- > Delivered non-sterile
- > Disinfectable



Art. No. 522 130

Bipolar pedicle simulation probe

work element lenght 30 cm with 1.5 mm connectors red and black, inner diameter 1.67 mm (compatible with Kirschner wire up to 1.6 mm diameter)

- > Delivered non-sterile
- > Autoclavable
- > Applicable with Art. No. 520 070 and 520 027

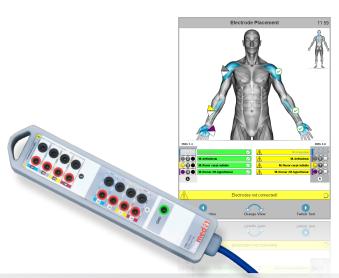


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Colour coding



The software and accessories have **consistent colour coding** as well as **information for the positioning** of the measuring electrodes; this allows easier needle positioning and wiring. Thanks to this needle positioning and wiring assistance, neuromonitoring is becoming a simple standard procedure in spinal column surgery.





Pioneer and partner in neuromonitoring

- >> Partnership
- >> Precision
- >> Innovation

Intraoperative Neuromonitoring Functional Neurosurgery

Pain Treatment
Neurological Diagnostics



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