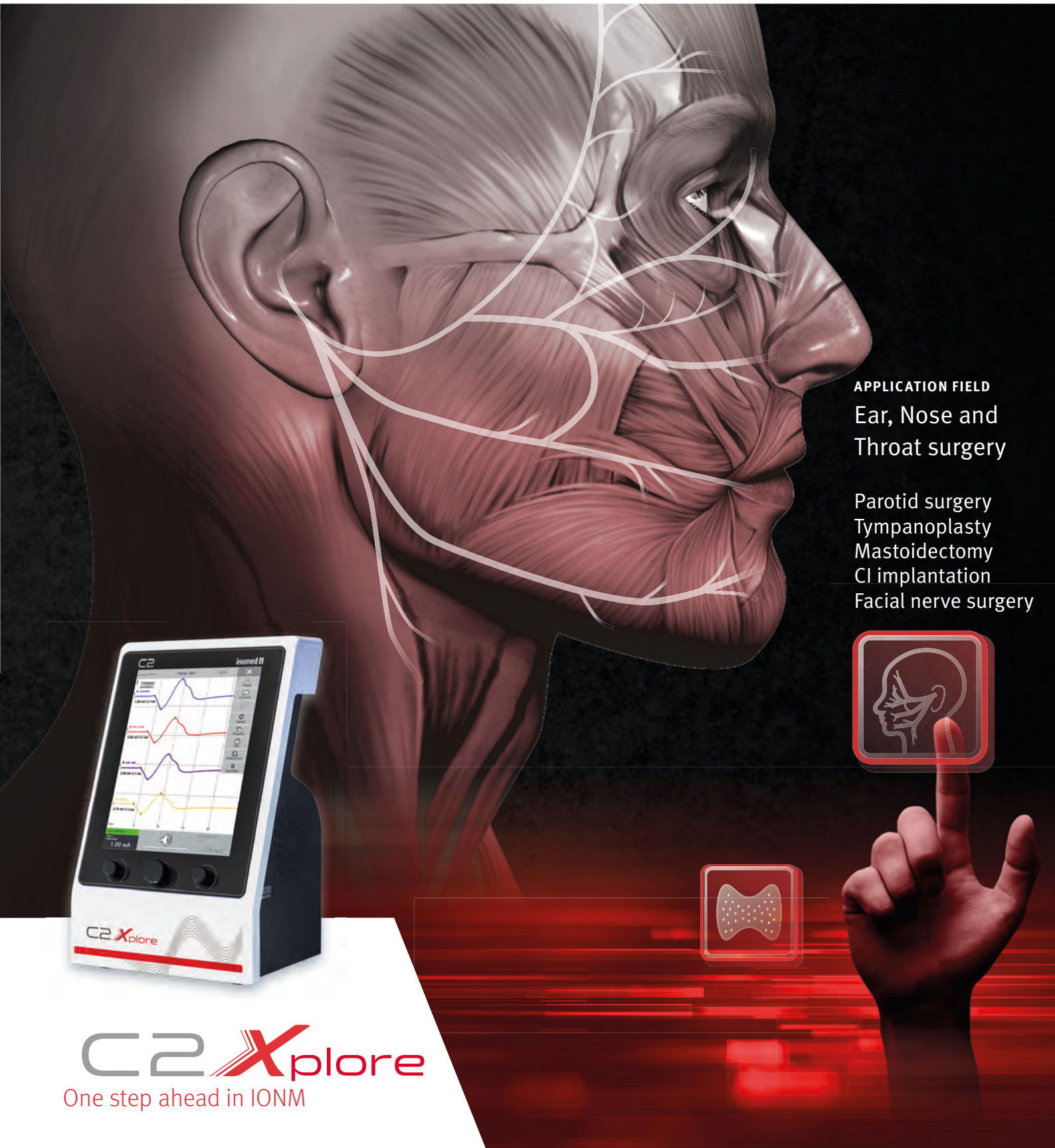
inomed

# Facial Nerve Monitoring




C2 Xplore

One step ahead in IONM

C2 Xplore

Neuromonitoring in ENT surgery

# In parotid surgery, iatrogenic injury can be significantly reduced by neuromonitoring

**Otolaryngology surgery is delicate, complex and highly precise. Protection of the branches of the facial nerve, which pervade the parotid in a fan-shaped arrangement, represents a particular challenge for surgeons.**
**For many years, intraoperative neuromonitoring (IONM) has been a well-established method to help surgeons monitor and localize nerve fibers in the surgical field and confirm their function in order to increase patient safety.**



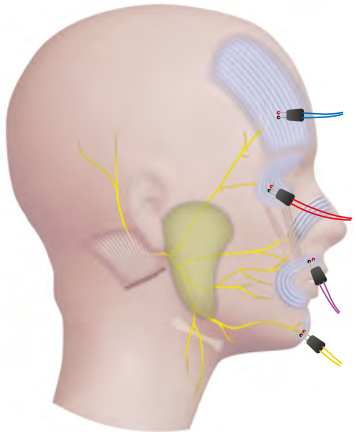

## SAVING NERVES – MINIMIZING RISKS

In parotid surgery, the facial nerve is at risk. Thanks to facial nerve monitoring, damage to the delicate nerve branches within the parotid and its immediate surroundings can be avoided.

Neuromonitoring is used in **two ways:**

›› Signals and spontaneous activities resulting from contact of the surgical instruments with the nerve branches and from mechanical manipulation of the nerves are indicated acoustically and visually.

›› Hand-held probes can be used to locate and indicate individual nerve branches within the parotid gland. These instruments stimulate the nerves electrically. The resulting muscle contractions are reported visually and acoustically.



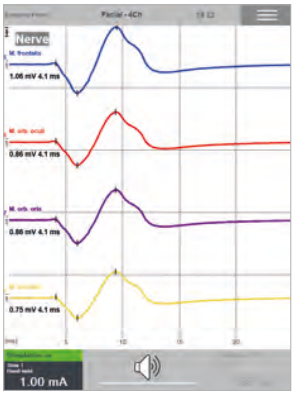
Where tympanoplasty is performed or a cochlear implant inserted, inomed's C2 Xplore nerve monitoring system is a useful tool that helps prevent nerve injury during drilling near the bony facial canal. During mastoidectomy procedures, neuromonitoring techniques are also used to reduce the risk of nerve injury during drilling in the vicinity of the bony facial canal.

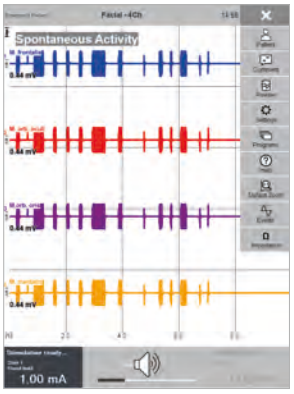
APPLICATION FIELD

Ear, Nose and Throat surgery

# Measurement mode

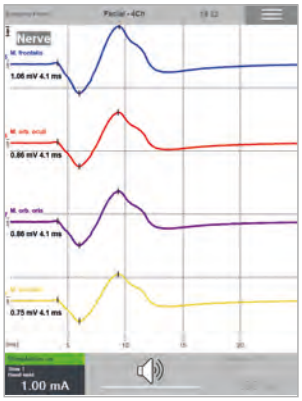
A hand-held stimulation probe locates nerve branches during surgery, and their function is monitored throughout the procedure.
Bipolar probes are highly selective and can be used to monitor nerve branches and their function in the immediate vicinity, whereas monopolar probes have a wider field of action. Electrodes are placed in the corresponding indicator muscles to record electrophysiological signals. If there is any significant change in the amplitude or latency of the muscle responses during surgery, the surgeon is informed visually and acoustically. This also happens if spontaneous activity should occur. Any spontaneous activity detected is automatically recorded and can be annotated for documentation.

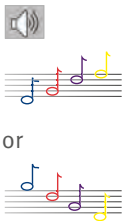



# HL7 ready*

Network communication based on the **HL7 standard** for synchronization with the hospital management system.



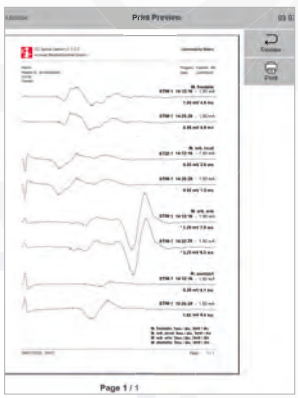

# Channel identification

**Intuitive channel identification thanks to individual acoustic output.** The different channels can be clearly identified acoustically by their sound. The channel with the highest detected EMG amplitude is always the one to give an acoustic signal. The user can freely choose whether the sounds are to be assigned to the channels from high to low or from low to high. The Channel Ident function is available for triggered EMG signals.

# Documentation

Thanks to the **intuitive comment function** of the C2 software, all relevant events can be controlled at any time, also retrospectively.



* The installation is project-based and needs to be evaluated within your hospital IT department.

# ENT
# Accessories



Art. No. 508288
***C2 Xplore***

for intraoperative nerve monitoring. Easy to use Neuromonitor with two integrated stimulation channels, loudspeaker, footswitch and mains lead



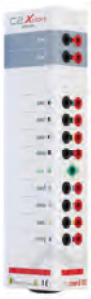
Art. No. 508531
***Thyroid and ENT Soft ware Module for C2 Xplore***

for optimized recording and nerve stimulation in thyroid and ENT surgery



Art. No. 540430
***Head Box for C2 Xplore***

Stimulation: 2 channels, recording: 8 EMG channels (4x Redel, 4x TP) and GND, differential, cable length 5 m, delivered non-sterile, not autoclavable



Art. No. 540431
***Body Box for C2 Xplore***

Stimulation: 2 channels, recording: 8 EMG channels for color-coded accessories and GND, differential, cable length 5 m, delivered non-sterile, not autoclavable



Art. No. 510025
***Mute sensor***

to supress HF interference signals, cable length 5 m
› Delivered non-sterile
› Disinfectable

## › STIMULATION



Art. No. 522610*
***Micro Fork Probe straight***

fork distance 2 mm,
fork length 3 mm,
1.5 mm touchproof connector,
work element length 45 mm,
cable length 3 m
› Single use
› EO sterilized



Art. No. 522603*
***BCS Probe, bipolar concentric, angled 30°***

1.5 mm touchproof connector,
work element length 45 mm,
cable length 3 m
› Single use
› EO sterilized



Art. No. 525603*
***Stimulation Probe, monopolar, angled 30°***

active tip 2 mm,
with SDN counter electrode,
1.5 mm touchproof connector,
work element length 45 mm,
cable length 3 m
› Single use
› EO sterilized



Art. No. 525608*
***Stimulation Probe, monopolar, flexible straight***

active tip 0.4 mm,
with SDN counter electrode,
1.5 mm touchproof connector,
work element length 85 mm,
cable length 3 m
› Single use
› EO sterilized



## › RECORDING

**2-channel set for 5 applications**

Art. No. 534671*
Electrodes blue, red

***Double Needle 2-channel set***
with SDN electrode green, 5 electrodes each blue, red, 1.5 mm touchproof connector, needle length 12 mm, needle distance 2.5 mm, cable length 1500 mm
› Single use
› EO sterilized




**4-channel set for 4 applications**

Art. No. 534643*
Electrodes blue, yellow, red, purple

***Double Needle 4-channel set***
with SDN electrode green, 4 electrodes each blue, yellow, red, purple, 1.5 mm touchproof connector, needle length 12 mm, needle distance 2.5 mm, cable length 1500 mm
› Single use
› EO sterilized




* Product availability may differ in the market, use only with accessories which have been explicitly cleared by the FDA for human use.

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