

INTRAOPERATIVE NEUROMONITORING

## ISIS Xpert – the key technology for IONM

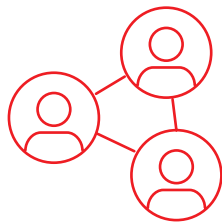
The complete package for IONM. Supports the user to improve surgical safety and efficacy. Individually configurable and easy to use.

**inomed** 

# Intraoperative neuromonitoring

Modern medicine demands highest quality and the best possible results. **Intraoperative neuromonitoring** enables you to locate nerves and monitor nerve function, helping to prevent nerve damage.

IONM has already become standard in many surgical fields. Make use of the continually evolving possibilities for successful surgery and satisfied patients.



## NETWORK OF LEADING IOM EXPERTS

**Join our network and help shape the future of IONM!**

Leading experts worldwide work with proven inomed technology. Through training and ongoing exchange of information with IONM specialists, you can drive advances in neuromonitoring.



## RESEARCH & DEVELOPMENT

**Continuous innovation and new fields of use**

As a technology leader, we work with renowned experts worldwide on an extensive programme of research and development to continuously create new fields of use and product innovations.



## EASY HANDLING

**Intuitive and user-friendly for quick adaption**

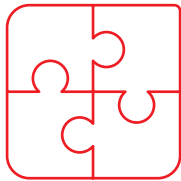
Clear interfaces and straightforward user navigation ensure safe use, make it easy to learn how to operate the device, and offer easy handling for beginners and experienced users alike.



#### HIGH QUALITY

### Developed and manufactured to German quality standards

With responsibility, attention to detail and a pioneering spirit, we manufacture products which are used in more than 5,000 hospitals in 100 countries to perform around 500,000 operations per year for the benefit of patients and doctors.



#### INDIVIDUAL

### Modular structure enables highly configurable systems

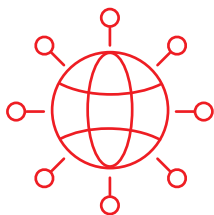
Flexible configuration of measurement modalities and the ability to combine a wide variety of applications mean you can individually tailor IONM to your clinical routine and research.



#### SERVICE & SUPPORT

### A single provider

We offer complete intraoperative neuromonitoring solutions. Our extensive range of accessories combined with direct, personal contact and fast, on-site service anywhere in the world guarantee that you receive support you can rely on. Our courses and workshops ensure that we provide a consistently high standard of service and quality.



#### DIGITAL NETWORKING & DATA MANAGEMENT

### Improving efficiency by maximising networking options

By offering a variety of options for digital networking within your hospital, our systems ensure that the process of managing and integrating all of the captured data is smooth and straightforward.

# Modular systems for more flexibility

The system's modular structure and the ability to flexibly combine different ISIS Headboxes and ISIS Neurostimulators enables tailored configurations to meet specific intraoperative neuromonitoring requirements. Optionally, the system can be equipped for microelectrode recording in the context of deep brain stimulation procedures.

→ Neurosurgical tumour resection



→ Pelvic surgery (rectal tumour surgery, urological procedures, gynaecological procedures)



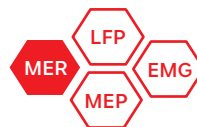
→ Spinal surgery (stabilisation, decompression, corrective spinal surgery)



→ Awake surgery



→ Functional neurosurgery (Deep brain stimulation)



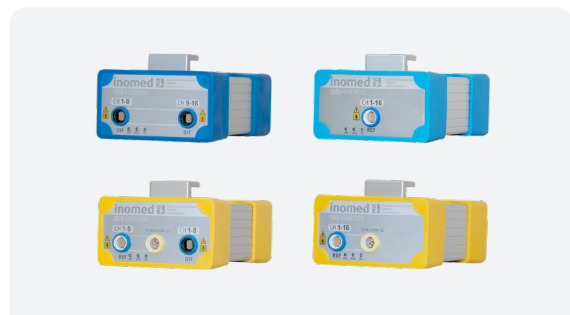
→ For more information visit [www.inomed.com](http://www.inomed.com)



## Adaptors

Stimulation and recording adaptors for electrode connection:

- Easy and safe to use thanks to colour-coded ports, connectors and cables
- Clear, legible labelling for faster electrode connection



## ISIS Headbox

The core component of the ISIS systems are the ISIS Headboxes. These advanced amplifier modules offer the following features:

- Double the number of channels up to 16
- Improved signal quality
- Versatile selection especially tailored for demanding application fields

# The ISIS system family

With the ISIS system family, inomed offers a complete package of products for multimodal intraoperative neurophysiological monitoring. ISIS systems offer outstanding performance, ease of use, flexibility and versatility. Users can choose between three different system options – ISIS Xpert, ISIS Xpert plus and ISIS Xpress.

Its modular structure and the ability to seamlessly integrate various ISIS Headboxes and the ISIS Neurostimulator enable individualised system configurations tailored to specific requirements, as well as comprehensive multimodal intraoperative neuromonitoring.



## height-adjustable cart

- User-friendliness due to pneumatic height adjustment
- Quick-release system for individual adjustments
- Ergonomic working position in sitting and standing



## ISIS XPERT

- High-performance standard system for multimodal monitoring
- Wide range of upgrade options
- single-screen version for all purposes

## ISIS XPERT<sup>plus</sup>

- Perfect for advanced neuromonitoring
- Both screens are rotatable for the surgeon's view
- 2 screens for a better overview

## ISIS Xpress

- Easy to transport
- Space-saving
- Highly configurable

Configuration	ISIS Xpert®	ISIS Xpert® plus	ISIS Xpress
Portable design with laptop and wheeled case with telescopic handle	–	–	✓
Maximum number of channels	64	64	48
Number of accessory compartments	2	2	–
High-performance panel PC	✓	✓	–
Touchscreen	✓	✓	–
2 touchscreens	–	✓	–
Ergonomic, height-adjustable cart	✓	✓	–
Printer	+	+	+
Display external video sources on the measurement screen	✓*	✓*	+
Integration with Zeiss Kinevo 900 microscopes	+	+	–
External mute sensor to mute the loudspeaker in the event of disruptive artefacts from electrosurgery	+	+	–
Synchronisation of patient data over the network	+	+	+
Remote monitoring	+	+	+
Upgrade option to 5-channel MER	+	+	+
inomed planning software for DBS	+	+	+

✓ Included as standard

– Not available with this system

⊕ Available as an additional option

\*only included in 32CH system variants



Unleash synergy –  
redefine flexibility

IONM FOR EVERYONE

## NeuroExplorer

The intuitive NeuroExplorer software offers a host of user-friendly functions, ensures clear overview and is quick to master in the often stressful operating room environment.

- Utilise different graphical features, such as superimposing traces and analysis tables for interpretation
- Modern look, adapted to the hardware
- Rapidly add windows or electrodes on the fly and move them via drag and drop
- Be the layout artist: customise views and desktops to your needs
- Create and share templates – save time
- Flexible reporting in PDF and DOCX for easy retrospective adjustment
- Data export in different formats, such as XLSX, ASCII and EDF
- Wide range of preset measurement scenarios tested by leading users

### New monitoring possibilities

NEW

#### Workflow scheduler

Duplicate, group or reorder stimulation windows. Including break function as a control element.

#### Spectral EEG

with DSA, CSA and lookback function

#### Integration of MER

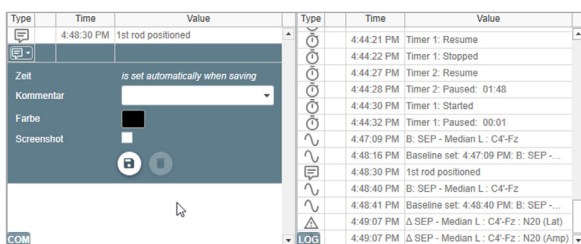
The key technology for microelectrode recording.





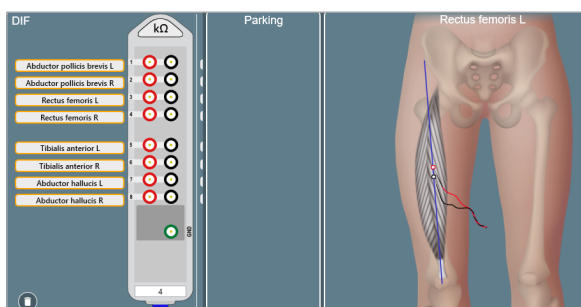
### → New setup

Open multiple setup windows at once and copy and paste channels or settings between different windows



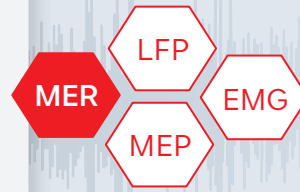
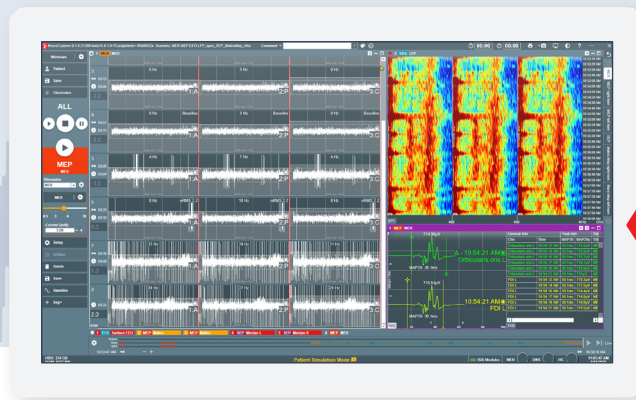
### → Timer

Track different events using up to two separate timers



### → Easy to use

due to beginner-friendly functions such as Atlas for electrode placement and basic mode



# ISIS MER NeuroExplorer – the release of potentials

Precision through synergy – experience the future of intraoperative neurophysiology:  
Our innovative software combines MER, LFP and MEP technologies in an intelligent platform designed to take precision and safety to a new level.

## NeuroExplorer 8 synergy

MER, LFP and MEP technologies in one intelligent software package

## Precision through synergy

Quantitative side effect determination by combining MER with motor evoked potentials (MEPs)

## Safety through analysis

Online analysis options MER, LFP, MEP to support signal interpretation

## Trust through overview

Intuitive display of MER signals with timeline for easy access to historical data

## Efficiency through simplicity

The completely redesigned user interface blends modern design with neurosurgical workflow needs.

## Flexibility for research

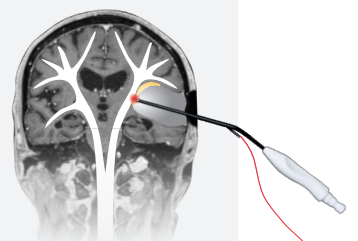
Online data streaming interface enables data transfer and individual evaluation in real time



## Mapping Suction Probe

Maximum tumour resection in eloquent brain areas – continuous dynamic pyramidal tract mapping.

With a Raabe suction mapping device, you can resect the tumour and map functional pathways in one go. With continuous acoustic feedback, it is possible to perform function-preserving surgery closer to the primary motor areas than ever before.

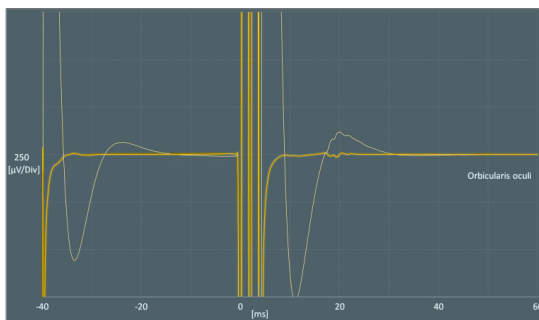




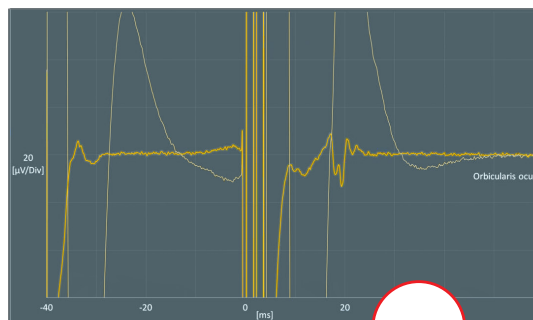
Get set for the future of neuromonitoring with inomed: We work with international IONM experts to develop innovative procedures and products.

## Artefact-free recording through stimulator design

The brand-new stimulation artefact reduction technology, patented in Germany, allows displaying even very short-latency and low-amplitude signals. D-wave or corticobulbar MEPs: less overlay means better interpretation possibilities.



— Standard (light yellow)  
— With stimulation artefact suppression (yellow)

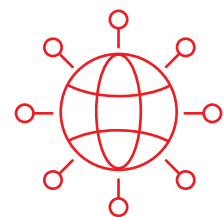


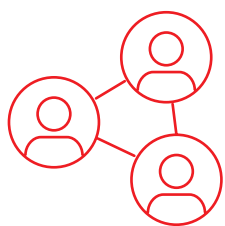
## Digital networking

In the digital era, efficiency can be improved by combining multiple applications. To this end, inomed devices feature a range of different networking options.

- NEX Sync database for linking your IONM devices
- HL7\* for connecting to hospital networks
- Remote support and remote monitoring inside and outside the operating room
- Connection to multiple video sources (microscope, navigation, monitors for speech mapping) and synchronous registration on the measurement screen
- Ability to display monitoring data in the surgical microscope (Zeiss Kinevo)
- The Screen2Video feature provides excellent documentation and training options

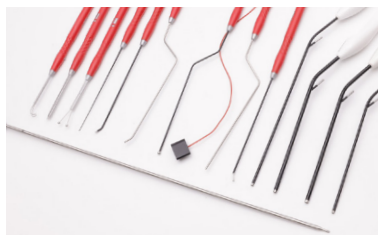
\*Not included in the standard package





# Become part of the network and shape the future of IONM!

Excellent quality 'Engineered in Germany' combined with maximum versatility and continuous product optimisation have already won over many IONM experts. Become part of the global IONM network!



inomed offers a comprehensive range of tailor-made IONM accessories with the quality you expect.



Here at inomed, we consider it self-evident that high-quality hardware and software include first-class service and ongoing support.



Invest in a better future for your hospital, surgeons & patients – with inomed.

## Excellence is the key

inomed develops and manufactures medical devices for a range of intraoperative applications. The company's core competence is INTRAOPERATIVE NEUROMONITORING, an area in which inomed is a global leader with a wide range of systems and services. Other important fields include functional neurosurgery and pain treatment.

The company established its pioneering technology in **1991**, when it successfully introduced the first nerve monitoring system. Today, inomed devices are used in **over 5,000 hospitals** in **100 countries** worldwide, ensuring patient safety and supporting doctors in around **500,000 operations every year**. Responsible for this success is a team of over 400 employees spread across our headquarters, several subsidiaries and direct sales in 8 European countries. inomed products for direct sales are also available from trained distributors in more than 100 countries.





# International courses and further training



The medical and medical technology training courses are conducted in close cooperation with our renowned partner ARKANA Forum GmbH. Specialised medical training and further education is offered in various application fields. These international courses combine in-depth theoretical content with practical hands-on sessions and interactive workshops that help participants apply their knowledge directly.

Participants are given the opportunity to expand their professional network and establish valuable contacts with industry experts.

In collaboration with ARKANA Forum GmbH, the inomed education platform provides a comprehensive range of online learning materials. It offers users an overview of their enrolled courses as well as access to learning analytics and downloadable certificates. The platform is designed to support continuous skills development through ongoing education.

**inomed** 

Our devices are developed and manufactured in southern Germany – a leading location for high-tech businesses.

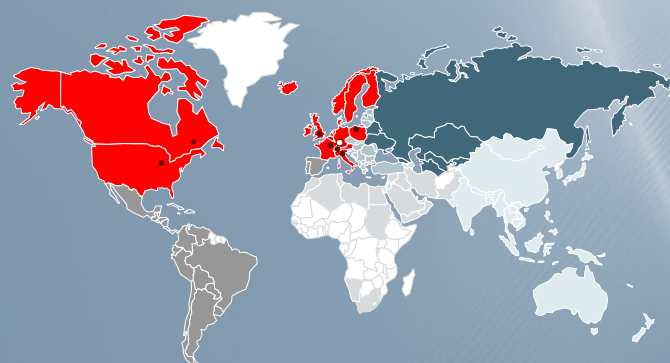
That is how we deliver products of the highest quality that you can rely on!



→ [inomed.com](https://inomed.com)

**inomed Medizintechnik GmbH**  
Im Hausgruen 29  
79312 Emmendingen (Germany)

Tel.: +49 7641 9414-0  
Fax : +49 7641 9414-94  
info@inomed.com



inomed devices are used  
in over

**5,000**

hospitals in

**100**

countries worldwide, ensuring  
patient safety and supporting  
doctors in around

**500,000**

operations annually.

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