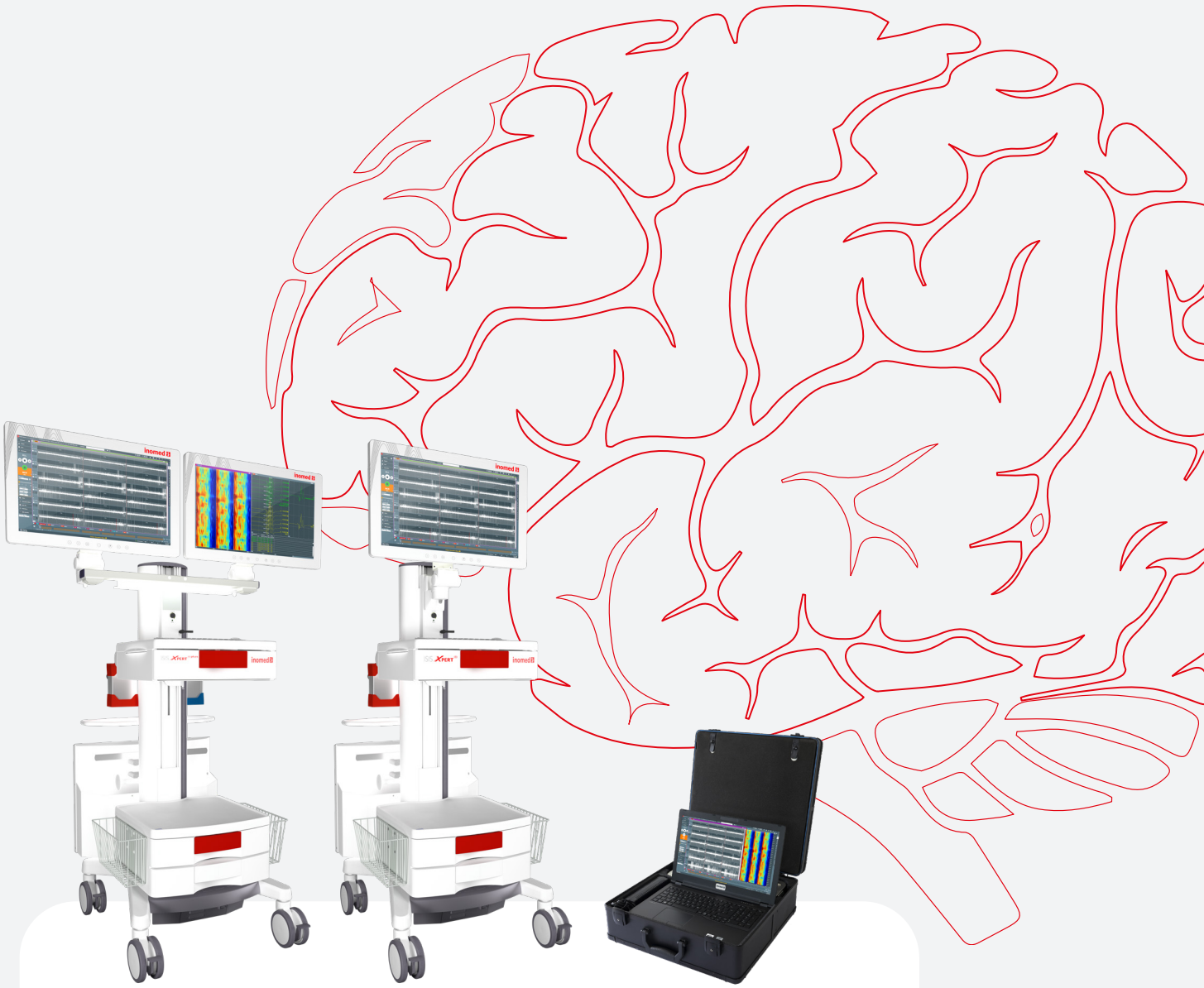


FUNCTIONAL NEUROSURGERY

# ISIS MER system

## The key technology for microelectrode recording

Improving targeting with neurophysiological localisation to assure accuracy and safety

inomed

## ISIS MER system family

Three basic versions which can be individually equipped according to your needs

# ISIS MER system
## The key technology for microelectrode recording

- Compact hardware design and an easy-to-use software guarantee a straightforward intraoperative workflow
- Advanced signal processing with filters, LFP spectral map, nRMS calculation, automatic MEP peak detection and data streaming
- Hydraulic height adjustment enables ergonomic working in both sitting and standing positions

NEW

height-adjustable cart

## ISIS Headbox

### ISIS Headbox MER

Compact hardware solution for target point localisation with MER recordings and test stimulation

Characteristics:

- 5 channels for MER and test stimulation, 20 kHz, 16 bit
- Adjustable high and low pass filters for hardware and software
- Trigger in/out
- MEP stimulation parameters (triggered window, trains of 5)
- Constant current stimulation from 0.1 to 10 mA between 1–300 Hz

### ISIS Headbox EMG

High-performance 16-channel differential amplifier for MEP, LFP and EMG monitoring during MER

Characteristics:

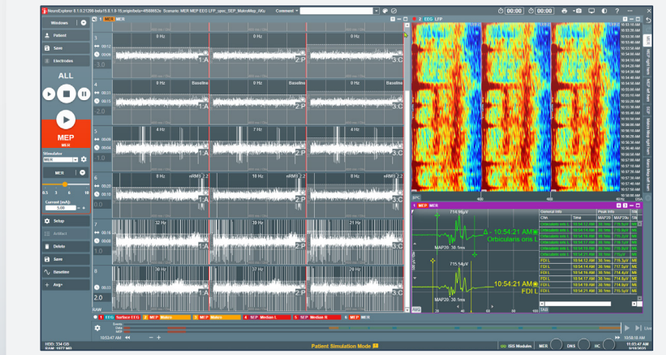
- 16 EMG channels, 20 kHz, 16 bit
- Adjustable high and low pass filter for hardware and software
- Trigger in/out


### LFP Module

Parallel microelectrode recording and LFP recording

The combination of the MER and EMG Headbox enables the recording of local field potentials (LFP) for up to five channels

NEW




## 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 blendes modern design with neurosurgical workflow needs.

**Flexibility for research**
Online data streaming interface enables data transfer and individual evaluation in real time

Nex SYNERGY

Flexibility redefined

## inomed MicroDrive

**Sophisticated instrument for precise electrode positioning during DBS procedures.**

Characteristics:

- Highest precision and proven reliability
- Simultaneous insertion of up to 5 electrodes via BenGun alignment
- Haptic feedback for each complete revolution (0.5 mm)
- Reusable with validated processing procedure
- Adaptability to many sterotactic frames and robotic system

## Guide tubes

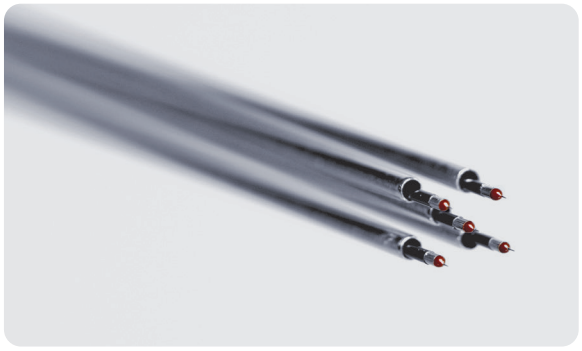
Large selection of different guide tubes:

- Universal guide tube
- MER guide tube
- DBS guide tube

All guide tubes are available in different lengths. Longest tube ends 10 mm before target, shortest tube ends 50 mm before target.

Simplify the procedure with the all-in-one universal guide tube solution:

- Inner part for MER electrodes
- Outer part for DBS electrodes
- No need to change guide tubes when inserting DBS lead



## MER accessories

**Three MER electrode designs provide flexibility in adjusting to different target structures**

### MicroMacro electrode

Ideal for brain surgery with electro-physiological determination of the anatomical target point for stereo-tactic-functional interventions such as deep brain stimulation

### MicroMove electrode

A combined electrode for the precise electrophysiological localisation of anatomical target points in the human brain during brain surgery

### Macro electrode

This electrode can be used to determine the anatomical target point by selective test stimulation during brain surgery

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