



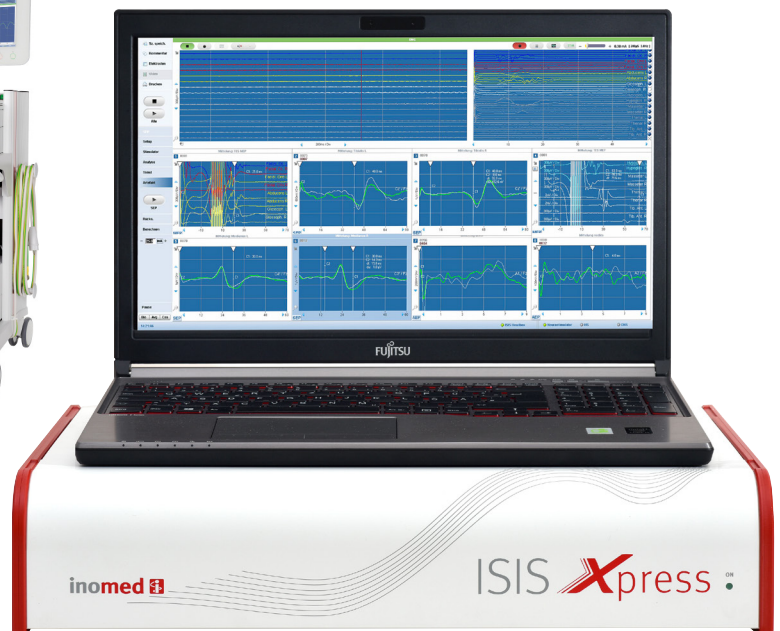
**Intraoperative Neuromonitoring**  
Functional Neurosurgery  
Pain Treatment  
Neurological Diagnostics

# ISIS IOM System-Family

**» APPLICATION FIELDS:**

- Neurosurgery
- Spine surgery
- Orthopedics
- Vascular surgery
- Cardiothoracic surgery
- General surgery
- ENT surgery

**» Powerful**  
**» User-friendly**  
**» Flexible**



**» The new ISIS Xpress  
supplements the ISIS IOM System-Family**

# > The ISIS IOM Systems for Intraoperative Neuromonitoring

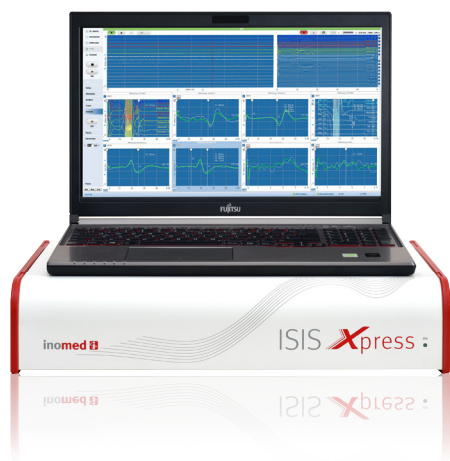
The inomed ISIS IONM systems provide a complete and user-configurable package for multi-modal intraoperative neurophysiological monitoring. The inomed ISIS IOM systems deliver impressive performance, ease of use, flexibility and a comprehensive range of applications.

The ISIS IOM system is available in three different forms – the ISIS IOM system, the ISIS IOM system compact and the portable ISIS Xpress.

Due to its flexible configuration options, it works in accordance with many kinds of operation procedures and can be designed for individual needs. The type and number of amplifiers can be selected and configured in accordance with the user's intended application. The systems can be enhanced with additional channels and applications as required to meet all monitoring needs as well as Micro Electrode Recording (MER) for Deep Brain Stimulation.

## NEW: ISIS XPRESS

- >> Easy transportation
- >> Space-saving
- >> Individually configurable



## > ISIS Xpress

The new **ISIS Xpress** is the portable version of the gold standard ISIS IOM system. The ISIS Xpress benefits from a new custom-designed, space-saving and lightweight console – ideal for easy transportation and IOM service delivery applications.

The ISIS Xpress transport trolley bag has been designed to be compatible with airline hand luggage regulations. This enables safe and easy transport of the ISIS Xpress and is particularly suitable for quick airport check-in.



## > ISIS IOM SYSTEM

The powerful and modularly configured **ISIS IOM system** is available with 8, 16, 24 or 32 channels and can be upgraded up to 128 channels, if required.

- >> Constant current stimulator with 12+1 outputs for direct neural, cortical, muscular, transcutaneous and transcranial electrical stimulation
- >> Stimulation current of 0.01mA to 250mA can be set at individually definable levels
- >> Continuous impedance measurement and current flow control indicator
- >> Each stimulation channel can be used flexibly for all measurement types
- >> Including a large number of predefined programs for application areas + easily creating an unlimited number of application-specific, pre-installed measurement programs



## > ISIS IOM SYSTEM compact

The **ISIS IOM System compact** is the base neuromonitoring system.

The “compact” version of the ISIS IOM System offers easy handling and high performance.

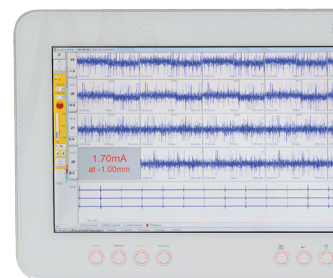
- >> **Easy and intuitive handling**
- >> **High-tech quality**
- >> **Optimum price-performance**



### >> Upgrade to ISIS MER System

The ISIS IOM system can be upgraded **for microelectrodes recording (MER)**.

The ISIS Headbox MER provides a complete hardware basis for target localization within deep brain stimulation. All necessary stereotactic instruments are also offered by inomed as a complete provider.



- >> Comprehensive software package for use in clinical practice and in research
- >> Amplifier with 5 channels for extracellular recording
- >> Integrated constant current stimulator for intraoperative test stimulation
- >> Reusable recording cable and electrodes for recording and test stimulation
- >> MicroDrive for the electrode placement



## > ISIS NEUROSTIMULATOR



**The ISIS Neurostimulator is a multifunctional constant current stimulator for the complete range of intraoperative neuromonitoring.**

- >> 12 high current stimulation outputs up to 250 mA and 1 direct nerve stimulation output up to 25 mA
- >> Used as a stand-alone device with special software or as a part of the ISIS IOM system, which is controlled by the NeuroExplorer software
- >> Modifying and saving of parameters for various stimulation modes
- >> Simultaneous use of every channel for different neurophysiological measurement methods
- >> Continuous control of stimulation electrode impedances during the surgery

### >> ISIS Headbox

Each ISIS Headbox consists of 8 input channels and acts together with a medical computer as a complete unit for the recording of electrophysiological signals.

- >> Optimal signal acquisition despite difficult conditions in the operating room
- >> Different combinations of the ISIS Headboxes enable an overall system according to individual requirements



### >> Adaptor

Special stimulation and recording adaptors for electrode connection.

- >> Easy handling thanks to color-coded plug-ins, connectors and cables
- >> Clear labeling for fast electrode connection



## > ISIS SYSTEM VERSIONS

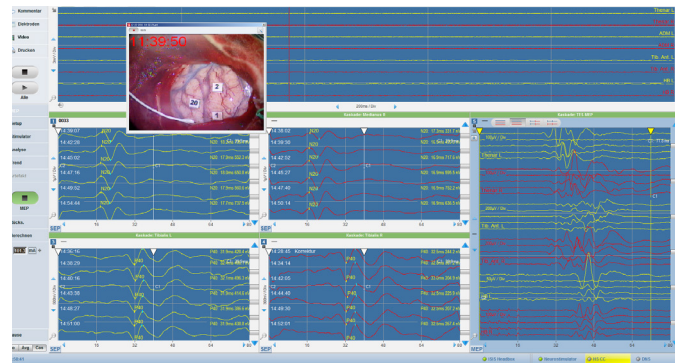
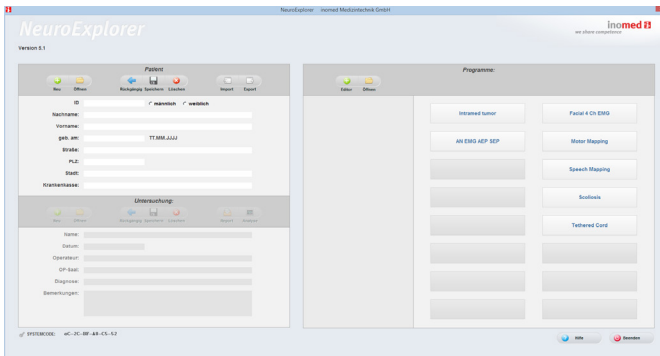
# ISIS IOM SYSTEM Versions



Configuration	ISIS IOM System	ISIS IOM System Compact	ISIS Xpress
Base unit with PC, inomed monitor height adjustable with hotkey function, laser printer, keyboard and two accessories drawers	■		
Base unit with PC, monitor, keyboard drawer and accessories basket		■	
Option inomed monitor		■	
Multitouch option for inomed monitor	■	■	
Case unit + laptop, wheels and telescopic handle			■
Amplifier channels	max. 128, individually configurable	max. 32, individually configurable	max. 24, individually configurable
<b>Software Module</b>			
EMG software module	■	■	■
SEP software module including PRSEP	■	■	■
AEP software module	■	■	■
MEP software module	■	■	■
VEP software module	■	■	■
EEG software module	■	■	■
<b>Features</b>			
Software mute function to reduce disturbing noise from cauterizing	■	■	■
External mute sensor to reduce disturbing noise from cauterizing	■	■	
Video module with synchronization function	■	■	
Remote Monitoring / iPad	■	■	■
Zeiss Pentero® Integration	■	■	
Network Option	■	■	■
Upgrade possibility with MER (5 channels)	■	■	■
iSSS - inomed System Security Solution	■	■	■



## > ISIS IOM Software NeuroExplorer



The NeuroExplorer software is able to create and memorize an unlimited number of programs with individual measurement modalities.

- >> Intraoperative adjustment of the display and parameters like cascades, trend curves, amplitude and time base etc. during measurement
- >> Remote monitoring allows the user to see the screen anywhere, even outside the operation room



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