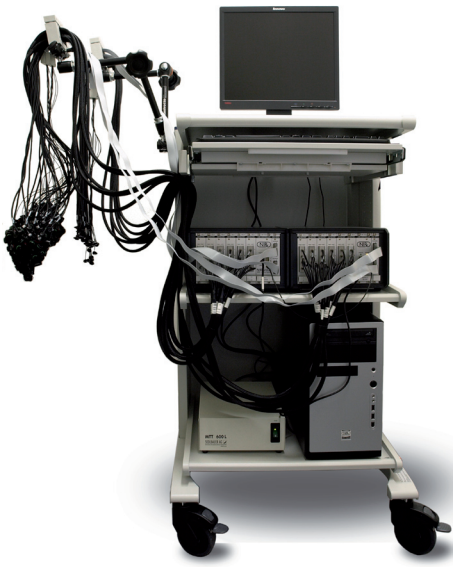
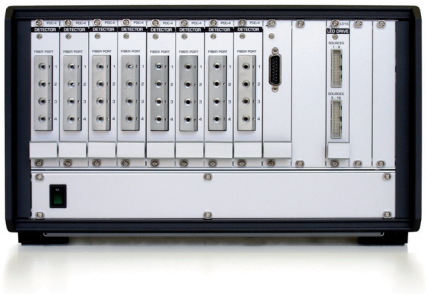
Flexible Neuroimaging Solutions

NIRScout

Ultra-Compact NIRS Imaging Systems





… Enlightening Neuroimaging

NIRx

A Complete Neuroimaging Solution

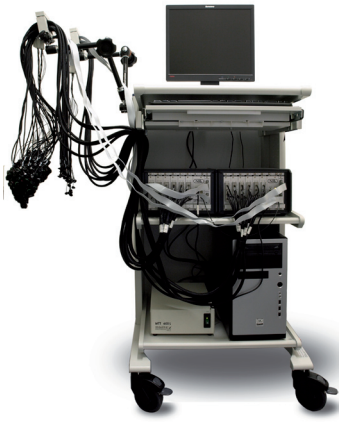
Scalability

NIRx NIRScout is a complete NIRS neuroimaging solution that offers unsurpassed compactness, versatility, and scalability at very competitive pricing. Available Instrument configurations range from few channels up to medium and large-scale setups that allow imaging coverage of large portions of the cortex.

The NIRScout Product Family

NIRScout / 8-16 sources / 4-24 detectors

NIRScoutX / 8-48 sources / 4-32 detectors



Cart-based Tandem Setup / 32 sources / 48 detectors

Integrated Solutions

NIRScout instruments interface with a large variety of available headgear and optical probes that serve a wide range of applications. Turn-key solutions are available for standard topography, neonatal/infant imaging, as well as multimodal acquisition with EEG or MRI. NIRx offers both standardized probe positioning and customer-configurable setups. The imagers have several digital input/output options for precise event marker triggering. A real-time data streaming option is available for BCI/neurofeedback applications. NIRScout systems employ an open data format that is compatible with a variety of open-source analysis solutions as well as NIRx's proprietary NAVI software.

Features at a Glance

- Ultra-compact form factor
- LED illumination
- Digital detection
- Digital trigger I/O
- Flexible imaging arrays
- Tomography-capable
- Optional EEG compatibility
- Real-time display
- Real-time data streaming
- Wide range of accessories
- Open data format compatible with wide range of analysis softwares

Selected Technical Specifications

No. of Detector Channels:	4–32
Sensitivity:	< 1 pW
Dynamic Range:	90 dBopt
Sensor Type:	Si Photodiode
No. of Illumination Sources:	8–48 (Time-Multiplexed)
Wavelengths:	760 nm, 850 nm
Power:	>5 mW / Wavelength
Scan Rate:	6.25 Hz, typ.
Emitter Type:	LED
Host Connection:	USB 2.0
Experiment Timing:	TTL/CMOS (8 In/8 Out max.)

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