

eXimia NBS – Navigated Brain Stimulation

*“With NBS you can
touch the brain.”*



Nexstim improves the accuracy and safety of transcranial magnetic stimulation

Medical professionals have always dreamt of the ability to actively reach into the brain – touch instead of looking. Modern brain scanners, such as MRI, already offer sophisticated views into the human brain. Yet, these images are passive views of structures.

Nexstim's Navigated Brain Stimulation (NBS) system reaches actively into the brain. NBS guides the precise delivery of targeted transcranial magnetic stimulation (TMS) pulses to discrete brain areas. The eXimia NBS system is the only device available for accurate prediction

of the TMS stimulus location and dose within the human brain.

The safe and non-invasive mapping using eXimia NBS can support neurologists and neurosurgeons to diagnose and treat the human brain diseases, trauma, and dysfunctions.

The earliest possible diagnosis of neuronal disorders rely on detection of functional changes with active, interventive tools such as NBS.

Benefits of eXimia NBS

- **Fast set-up:** ready to use in 15 minutes
- **Easy to use:** the equipment shows quickly and clearly the essential information, while details are stored for the analysis
- **Accuracy you have dreamt about:** reliable identification of diagnostic changes in neuronal functioning
- **Repeatable results:** the clear display of E-field dose and automatic documentation of data assist in standardized use
- **Fast analysis:** complete reports in minutes



*“The NBS technology takes
TMS giant steps towards true
clinical use...”*

eXimia NBS Specifications

Localization: 2 mm (rms) excluding registration
Tracking speed: Real time, up to 20 Hz
Computer system: PC, Windows, LCD display
Interfaces: Trigger in/out
Tools: Head tracker, coil tracker, digitizer pen
Patient handling: Adjustable chair, foot switch

Selection of features

Computation: Real time TMS induced E-field display
3D Models: TMS coil, head conductor, E-field
Documentation: Automatic book-keeping of coil position, E-field dose
Target types: MR and coil targets, coordinate values
Targeting modes: E-field, distance to target, 3D Aiming
Digitization: Landmarks, EEG electrode locations
MRI displays: 3D rendering, 3D peeling, slices
Functional imaging: fMRI and PET overlays

Safety

IEC60601-1, -1-1, -1-4; CE marked
Quality: ISO 13485/9001

Compatibility

TMS devices from Nexstim, Magstim, and Medtronic
Coils: Nexstim: Focal Monopulse, Focal Bipulse;
Magstim: Double 70mm, High Power 90mm, Double
70mm Cooled; Medtronic: MCF-B65, MC-B70,
MCF-P-B65, C-100
MRI formats: DICOM, Analyze

Siting

Space: 2 × 3 m minimum recommended
Ceiling height: 2.3 – 5.5 m
Power: 100/115/220 – 240 V~, 50/60Hz

Service and maintenance

Distributors, or directly from Nexstim where distributors
unavailable.

Training

Nexstim offers training for all users.

For detailed specifications, contact Nexstim.

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