Geodesic EEG System MR for Research

EGI's magnetic resonance imaging (MRI) compatible EEG system is the first practical whole head EEG product that works within the MR environment. By taking EGI's low-profile, high-density EEG into the MRI scanner, you can take advantage of MRI's high spatial resolution and EEG's high temporal resolution to record brain activity more completely.

EGI's MR-compatible EEG Systems can be used for simultaneous EEG-fMRI and simultaneous EEG-MEG.

Products

Geodesic EEG System 400 MR
Geodesic EEG System 410 MR

Read more about the new Geodesic EEG System 400 series.

Contact EGI for more information

IMPORTANT NOTICE: The GES 400 MR, and GES 410 MR products are sold for strictly research purposes and are not medical devices in the United States. As such, these products cannot be used for medical purposes such as the diagnosis, treatment, cure, mitigation, or prevention of diseases.

The GES 400, GES 405, and GES 410 products are CE-marked in conformity with the European Medical Device Directive. Information on clearance status in other countries is available upon request.

System Features

- **Versatility.** Use your GES MR in the MR environment or in the lab. There is no need for separate systems.

- **Reduced noise.** The Field Isolation Containment System (FICS) features shielding and input filtering that significantly reduce the effect of noise sources in the MR environment.

- **Artifact removal.** The GES MR system software corrects the EEG file for MR gradient, MR pulse sequence, and ballistocardiogram artifacts. Read more about EGI's approach to MR artifact handling.

- **Channel counts.** EGI's fMRI compatible EEG systems are available with 32, 64, 128, or 256 channels.

- **Upgradeable channel counts.** The GES MR is upgradeable by channel count so you can work with the full power of dense array EEG when you are ready.

See how one EGI customer is using EEG-fMRI in his lab.
Publications


Products

Geodesic EEG System 400 MR
Geodesic EEG System 410 MR

Systems are sold as complete packages with everything you will need to start work immediately. You can choose from either stationary or portable configurations, which can include:

- Net Amps amplifier and wall mount
- Hospital grade isolation transformer
- Mac Pro computer with monitor, MacBook Pro computer, or iMac computer
- Field Isolation Containment Module
- Net Station 5 software with artifact removal module
- HydroCel Geodesic Sensor Net (32-, 64-, 128-, or 256-channel)
- Net support kit
- Equipment case
- System manuals
- Installation and basic training
If you already own a Geodesic EEG System, you may upgrade your system for use in an MR environment with the fMRI Upgrade Package, which includes:

- Field Isolation Containment System (FICS) This enclosure for the FICS Compatible Net Amps 300 includes input RF filters, 2 fiber optic channels, and a battery power pack.
- Artifact Removal Module for Net Station software

Related Products

NEW! NoMoCo Pillow Support System Kit – Healthcare Fabric
NEW! NoMoCo Pillow Support System Kit – Vinyl Coated

NoMoCo memory foam pillow support systems provide the ultimate in comfort for patients or participants during an MR or MR-EEG procedure.

Each pillow kit comes with 12 pillows – 2 head pads, 2 neck rolls, 4 wedge-shaped pillows, and 4 rectangle pillows – and a head strap, enabling custom comfort for a variety of head shapes and sizes.

The Healthcare Fabric system provides a thick, durable, tear resistant biostatic (anti-mycotic) polyurethane-coated, weft-knitted fabric cover with heat-sealed seams, providing a barrier to viruses and bacteria.

The Vinyl Coated system provides a thinner coating, but it is puncture resistant with antibacterial qualities suitable for repeated use. It has been rated by ASTM standards to provide very good chemical resistance to various fluids, including betadine, blood, acid, urea, alcohol, and all-purpose cleaning products.
Support

A member of EGI’s renowned international Training and Technical Support Team will install your system and provide your lab with a tutorial for basic use. Your support contract will enable you to obtain the support you need to keep your system running at peak performance.

Each purchase of a GES product also includes tuition waivers to EGI Schools or workshops that provide in depth learning for any member of your team. EGI also offers custom training for new lab members, or for anyone looking to learn more about using the GES system to its maximum potential.