





MEG by CTF

The best low-noise and stable MEG availible in the world



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ctf.com

SN:0000 REV1A

Superior accuracy, consistant results









"Set and Forget"

Best Signal to Noise

275 Sensor Locations

The CTF Advantage

The quality of a MEG system is principilly defined by its ability to detect signals and reject noise. The CTF MEG employs a unique configuration of constructing higher order gradiometers which are extremely effective at rejecting environmental noise

In both optimal and challenging magnetic environments, the low-noise and stable performance of the CTF MEG is unsurpassed.

With the tried and tested 275 axial radiometers, and full-rank noise cancellation, the CTF MEG is the MEG that you know and love.

Updated with the latest advancements in digital signal processing. Still the best-in-class sensor architecture the CTF MEG continues to push forward the field of magnetoenchephalography

Specification Highlights

MEG Channels	304 (275 Sensing, 29 Reference
Dynamic Range	32 bits +/- 600 nT
System Noise	4-7 fT-rms/Hz from 1-70Hz
Sample Rate	19.2 kHz



The Dynamic Brain

Under the Same Management Since 2007

66111



Patient Support

From suppine to seated, our new patient support affords a smoother patient experience



Electronics Robust digital signal pro



Helium Recovery

Both closed and open loop systems are supported



Reference Array

Our reference array is calibrated in the factory each system to ensure superior signal to noise ratio

About Us



MEG Explainer



Neurons to Magnetic Fields

Electric currents create magnetic fields. Neurons generate electric currents, thus neural activity can be measured by magnetic fields.

No the

Neurons

There are multiple types of neurons in the brain and all 86 billion generate an electical current



Magnetic Fields

All electrical currents create a magnetic field that is proporational to the strength of the current. As such, neurons create magnetic fields



Super Conducting Quantim Interference Devices (SQUIDS) measure magnetic fields. By having these coupled to gradiometers we are able to construct brain activity in across the scalp. And source localize using source modelling



ϕ Josephson junction

These junctions make quatum mechanics observable via an electrical current



SQUIDS

DC SQUIDS Used in MEG contain two Joseephson junctions to measure magnetic flux



Axial Gradiometers

Gradiometers are the points where the magnetic field is observed



Source Localisation

By having gradiometers in a large array you can use models to plot where in the brain activity is coming from

Software & Peripherals



Software Suite

From are aquistion software Acq and our data viewer and editor Data Editor, to our command line interfaces for repeatable robust analytic pipelines CTF Software Suite has many of your needs for analysis. When you need to go beyond them CTF can be imported into most 3rd party software tools



Acq

With the capibilty to run different protocols and to do online processing you will see the quality of your data in a clean an clear graph



Data Editor

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Your Turnkey Solution

From Site Design to Your First Collection

Service Excellence

Global Technical Support Staff Preventative Maintenance

1 Business Day Turnaround

24/7 Phone Support

R R R R R R

In Depth Site Survey

We'll help you pick the best site for your MEG to ensure the cleanest data and the most ergonmic location



CTF Network

With some of the biggest names in MEG clinical and research throughput we will be your connector to that network



On Site Training

A variety of options to get you ready to collect your first dataset we have a growing team of application specialists



Full Stimulus Suite

Visual Auditory Somatosensory and more..

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