

The closest thing to mental telepathy you've ever seen!

Mind-Fi is a wireless 63 channel active EEG head-cap that enables participants to project their thoughts in real-time anywhere in a coverage area of 20x20 feet (6x6 meters). Active electronics on the cap eliminate the need for scalp abrasion resulting in cap setup time of only 5-10 minutes. The cap weighs only a few ounces, so it's comfortable to wear and it will stay put as subjects move through the environment. To wash, just remove the tiny transmitter and place it on the charger.

There's also a small wireless receiver to instantly receive the projected thoughts, flexible data acquisition hardware and powerful, easy-to-install data acquisition software for any Windows platform. Mind-Fi is suited to EEG, ERP and even BCI studies.



Features and Benefits:

- **Quick setup and unexpected signal quality:** Active head-stage on the cap, battery power and electrical isolation
- **Compact:** 63 channels on the cap and receiver
- **Easy to install on any computer:** USB 2.0 interface with Windows, MAC and Linux drivers
- **Wide range of applications:** 0.8 to 2 kHz frequency response
- **No need for shielding, so you can use it almost anywhere:** inherently isolated, high input impedance and high CMRR for superior noise rejection
- **Inexpensive, state of the art DAQ options:** 16-bit burst-mode sampling or one 24-bit A/D per channel, simultaneously sampled
- **Any electrode layout is possible:** A wide range of standard and customizable head caps
- **Software choices:** Simple, full-featured turnkey software or MATLAB API
- **You own your data:** Uses standard EDF data file format, which is supported by almost all available EEG analysis software tools



Options:

- Data acquisition hardware and software
- Mind-Fi DAQ: 16-bit USB DAQ with simple recorder software or LabVIEW, MATLAB or C/C++/C# API
- g.Recorder: 16-bit PCIe DAQ with full-featured data acquisition software and synchronous video
- MATLAB: 16-bit USB or PCIe DAQ with g.tec MATLAB / Simulink tools
- Wide variety of head-cap styles, layouts and labeling schemes

Components:

- Mind-Fi Cap: S, M, L
- Mind-Fi Transmitter Pod
- Mind-Fi Charger
- Mind-Fi Receiver
- DAQ hardware/software of your choice



Specifications:

Max. number of channels	63
Low-pass response	2000 Hz
High-pass response	0.8 Hz
Digitization	16 bit SAR, multiplexed
Sampling skew	< 1 μ s / channel
Quantization-resolution	LSB = 117.375 nV
Input Referred Noise:	7 μ V
Gain:	250 x
Anti-aliasing filter:	fixed 4th order analog filter, -3dB at 2 kHz
Input range:	+/-3 mV
Input impedance:	> 10 MOhms
Battery life on standard battery:	> 5 hours @ 63 channels
Battery charge time (with external fast charger):	< 5 hours for a 100% charge
PC interface:	USB2.0
Size of headstage:	1.5 x 3 x 2 cm (L x W x H)
Weight of front-end:	8.5 grams (0.3 Oz), Cap + Electrodes + Headstage = 244 grams (8.6 Oz)