

## Peripheral devices for MEG studies

Paper copies of manuals (for much of the equipment in OHBA) are kept on the bookcase in the main OHBA office area. These manuals must always be returned to the bookcase immediately after use.

### Megin MEG manuals

Updates to the software manuals are made periodically by Megin, so it is recommended you view manuals directly from the MEG lab. Paper copies of the original manuals are available in OHBA, these must never be removed from OHBA.

- [Tuning](#). Explains the tuning procedure, principles of a SQUID sensor and will help you understand the operation of the system. Tuning is normally required only once per day. You should not attempt to tune the MEG system yourself unless you have been shown the OHBA procedure.
- [Data acquisition](#). A lot of detail but quick to read. Will help you get a better idea about how your project is set up in the MEG system. If you find some differences to how things are being done in OHBA then please discuss with Sven before you make changes.
- [Maxfilter](#).
- Hardware ([Part 1](#) and [Part 2](#)). Guide to the MEG system, electronics, gantry, refill procedure.

### Eyelink eyetrackers

The eyetrackers in the MEG and mock-MEG labs are [Eyelink 1000 made by SR Research](#). They are both MEG compatible. The eyetracker is very expensive and fragile and you should not attempt to use it before it has been demonstrated to you. You may find it helpful to [create an account with the SR Research Support Site](#). Paper copies of the original manuals are available in OHBA. In addition, the manuals can be downloaded from the installation CD. These must never be removed from OHBA.

- [Installation Guide](#)
- [User Manual](#)
- [Data Viewer Manual](#)
- [Programmers Guide](#)
- [API Specification](#)
- [EDF Access API Manual](#)
- [Gaze Video Overlay Setup](#)

## Response devices

### fORP Optic Response Devices

There are fORP response systems, made by Current Designs in the MEG. Both systems use the same style 932 fORP interface unit.

fORP 932 parts [manual](#)

- 2x bimanual buttons (two buttons for each hand) [specs](#)
- 2x trackball with two buttons [specs](#)
- 2x joystick [specs](#)
- 2x bimanual grip-force transducers [specs](#)



fORP 932 key parts, left to right: interface box; bimanual buttons; trackball; joystick; bimanual grip force transducers.

## Screen

- VPixx high frame rate projector (max 1440Hz) [specs](#)

## For physiological data EEG

- Optitrack V120: Duo [specs and manuals](#)

## EEG

- Braincaps MEG [specs](#) : sizes ranging from 54 cm to 60 cm

## Stimulation

- Digitimer constant current nerve stimulator [specs](#)
- Etymotic Research ER-30 Tubephone [specs](#) - audio transducers (< 3000Hz) and audio mixer

## Other

- Eyesight correction lenses (-8 to 8 dioptre, 0.5 increment; usually good enough for mild astigmatism)
- Tektronix TDS 2014B Oscilloscope: The oscilloscope in OHBA is made by [Tektronix](#). This is often used to measure timing differences between stimulus presentation and triggers. [User Manual](#)