

Devices for MEG studies

Paper copies of some of the 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. All manuals for the below devices, including specifications, can be found in the Manuals folder on the WIN website (SSO).

fORP Optic Response Devices

There are 4 fORP response devices available. These are the same available in the MR suite. Both systems use the same style 932 fORP interface unit.

- Bimanual buttons (two buttons for each hand) [specs](#)
- Trackball with two buttons [specs](#)
- Joystick [specs](#)
- 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). Distant from participant: 120 cm. Size of projected screen: 31 cm x 55 cm.

Motion capture: Optitrack V120: Duo

EEG: Braincaps MEG: sizes ranging from 54 cm to 60 cm

Stimulation

- Etymotic Research ER-30 Tubephone with SPL Crimson 3 audio transducers (< 3000Hz) and audio mixer. A table of all loudness levels for the different settings in SPL dB A (e.g. Mic Gain and Volume) for both full loudness and tones that are loudness-adjusted is available in the Manuals folder.
- Digitimer constant current nerve stimulator

Other

- Eyesight correction lenses (-8 to 8 dioptre, 0.5 increment; usually good enough for mild astigmatism)
- Tektronix TDS 2014B Oscilloscope: used to measure timing differences between stimulus presentation and triggers.
- Bespoke smart screen: triggered by script, becomes opaque and transparent based on task need.
- Foot pedal (to work as a button response device)