

The measurement check list is available to help a new user to start the measurements at MEG Core.

**Research permission** (<https://www.aalto.fi/en/aalto-neuroimaging-infrastructure/meg-core>)

Secure funding and obtain a supporting statement from appropriate ethics committee (e.g. Aalto, HUS, UH, etc.)

- Aalto, <https://www.aalto.fi/en/services/research-ethics-committee>
- HUS, <https://www.hus.fi/tutkijalle/tutkimuseettiset-toimikunnat/Sivut/default.aspx>
- UH, <https://www.helsinki.fi/en/research/research-environment/research-ethics>

**List the persons who can reserve MEG** (They must be listed in the research permission)

Name	Email	Phone	Affiliation

**MEG protocol**

**Create your project (on MEG console)**

Name: \_\_\_\_\_

Create your setup:

- EEG – channels \_\_\_\_\_
- EOG / EMG / ECG – channels \_\_\_\_\_
- MISC – channels \_\_\_\_\_

**NOTE!** STI 101, 201 and 301 – channels must be enabled!

Sampling rate: \_\_\_\_\_

Lowpass filter: \_\_\_\_\_ Hz

High pass filter: \_\_\_\_\_ Hz

External or internal stimulus generation? \_\_\_\_\_

Online averaging? \_\_\_\_\_

**Stimulus equipment**

**Software** (version, etc.)

Presentation  
E-Prime  
Matlab  
PsychoPy  
Psychtoolbox

Software	Version

**Stimuli**

Are the default settings fine for your experiment? If you have particular requirements for the stimuli, please contact Tuomas Tolvanen ([tuomas.j.tolvanen@aalto.fi](mailto:tuomas.j.tolvanen@aalto.fi)).

**Visual stimuli**

Default settings for visual stimuli

- Resolution                      1920x1080
- Frequency                        120 Hz
- Image dimensions              73 cm x 41 cm
- Viewing distance                120 cm

Resolution	Frequency	Screen dimensions	Viewing distance

**Auditory stimuli**

- Measure dB levels before measurements
- Check default sound volume for your stimuli
  - Etymotic ER headphones
  - ADU headphones
  - Panel speaker

**Response equipment**

**Response devices**

Optical finger pads (1-4 finger) – left and/or right hand  
Optical 1 finger pad – left and/or right hand  
Microphone

Device	Handheld

o **Monitoring systems**

- Accelerometers       Video MEG       Eye tracking

**Piloting**

- Contact Mia Illman ([mia.illman@aalto.fi](mailto:mia.illman@aalto.fi)) to book a pilot measurement time.
- Check timing with stimuli, triggers, etc.
- Prepare your MEG protocol
- Develop your own measurement procedure!

**Other**

- Get Aalto key card from NBE HR Coordinator
- Get Aalto access token from janitors at Otakaari 3.

**Data transfer**

- Ask for a neuro user ID from Petteri Räisänen ([petteri.raisanen@aalto.fi](mailto:petteri.raisanen@aalto.fi)) at the Department of Neuroscience and Biomedical Engineering, Aalto University School of Science
- Ask detailed instructions from Petteri

