CUBIC MRI Unit – Equipment

Scanner

Siemens Tim Trio System

Software – Syngo MR B17

RF Coils

32 channel head array

12 channel head array

Birdcage coil

Neck coil

Spine coil.

Display Computer

Lenovo PC – Intel Core i7-6700 CPU, 3.4GHz; 16GB RAM;

A clone PC is available in Elaine Funnell Lab for testing purposes.

Projector

Sanyo PLC-XP100L with back projection system

Button Response Pads

Lumitouch button box – one hand 4 keys.

NATA technology button box – two hands, 5 keys per hand.

Eye-tracking system

SR research, 1000Hz.

Auditory Stimulus presentation

Siemens Pneumatic headphones

Sensimetrics headphones – model S14

Sony amplifier

Optical Microphone

OptoAcoustics – dual channel microphone system – FOMRI -III

MR Compatible Eyeglasses

Interchangeable prescription eyeglasses with lens inserts in Rx powers from -6 to +6.

Triggers for synchronising

USB cable triggering

Parallel port triggering via MATLAB

Physiological monitoring

Siemens:

Monitoring and recording of peripheral pulse (top), ECG (middle) and respiration (bottom) through Siemens wireless physiological equipment.

Biopac:

MP160 amplifier with AcqKnowledge software

Stimulus presentation interface module

ECG module with electrodes

Respiration module

2x hand grip modules

NeuroConn:

TDCS – DC stimulator – MR Compatible