

# Rotman MRI Equipment List - Quick

Below is a quick summary of all of the equipment currently available for researchers at the Rotman MRI.

If you have any questions or requests please contact our MRI Specialist, Jacob Matthews, at <u>imatthews@research.baycrest.org</u>.

## **MRI Scanner and Related Equipment**

### **MRI Scanner**

Siemens 3T PrismaFit MRI Scanner, 80/200 gradients, VE11E software, Head/Neck 20 Coil, Head 32 Coil, Head/Neck 64 Coil

#### **Stimulus Presentation Computer**

Dell Precision 5820 (connected to most other stimulus equipment, common stimulus software installed: E-Prime, Presentation, PsychoPy (python), PsychToolBox (matlab))

### Cables for Researcher Laptop/Device

KVM plus equipment cable bundle including: two video cables with common port adapters, audio in/out cables, KVM USB (scanner triggers, response box), BNC/Parallel (analog trigger signals)

### Visual Stimulus Presentation System

VPixx PROPixx MRI (LED, 1080p, 120Hz), VPixx DATAPixx3 Controller (stimulus synchronization), VPixx In-Bore Projection Screen (image size: 43.5cm x 24cm, eye-to-screen distance: 100cm, vertical FOV: 14.5 degrees, horizontal FOV: 25.8 degrees)

### Auditory Stimulus Presentation System

OptoAcoustics OptoActive II ANC Headphone with FOMRI-III<sup>™</sup> Noise Cancelling Microphone Siemens Built-In Audio (Headset, In-ear, Loudspeakers) Avotec Silent Scan MR Confon

### Subject Response System

Interface - Current Designs 932 Interface & Power Supply Button Box - Current Designs Pyka 8 Button Bimanual - Thumbs Disabled Button Box - Current Designs 8 Button Bimanual Curved Lines Button Box Keyboard Signals(index to pinky): Right Hand "1" to "4", Left Hand "6" to "9", Scanner Trigger "5"

# Simultaneous Eye-Tracking Recording SR Research EyeLink 1000 Plus

# Simultaneous EEG Recording

EGI MR-compatible Geodesic EEG System 400 Brain Products BrainAmp-MR EEG System

### Physiological Recording

Siemens (breathing, pulse, ECG) Biopac (breathing, pulse, ECG, skin conductance, O2/CO2 exhale concentrations, blood pressure)

Patient Monitoring Camera System MRC-Systems 12M Cameras (subject face and subject body)

### MR Safe Prescription Glasses Wardray Premise Mediglasses (lenses: +6.0 to -6.0 in 0.5 steps)

# MRI Simulator and Related Equipment

### Mock (0T) MRI Simulator

Psychology Software Tools MRI Simulator (working table, bore-lights, bore-fans, loudspeaker for "scanner noise", maximum subject weight: 135kg / 300lb, table/head-coil padding, back support pillow, subject-specific sheets/pillow-cases)

### **Stimulus Presentation Computer**

Dell Precision 5820 (connected to most other stimulus equipment, common stimulus software installed: E-Prime, Presentation, PsychoPy (python), PsychToolBox (matlab))

### Cables for Researcher Laptop/Device

KVM plus equipment cable bundle including: two video cables with common port adapters, audio in/out cables, KVM USB (response box)

Visual Presentation System TBC - Projector 1080p and 120Hz to match the MRI VPixx system.

Audio Presentation System TBC - Optoacoustics Non-MR Audio System

Subject Response System Button Box - Trainer Pyka x 2 Button Box - Trainer 4 Button Curve Right/Left Button Box Keyboard Signals(index to pinky): Right Hand "1" to "4", Left Hand "6" to "9"