User Guides

Troubleshooting Guides:

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NNL

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DICOM Transfer Guide

How to transfer your scan from the Siemens Console to Anubix (the transfer computer): DICOM Transfer Guide

Stimulus Presentation Computer

Used to present audio and video stimulus to a subject lying in the scanner. Our setup has a KVM switch, so stimuli can also be presented using a laptop.

LCD Presentation Screen

Visual stimuli are presented on a specially shielded 32" LCD monitor which has been stripped of ferrous material and placed in an aluminum enclosure with a conductive glass front. The screen is located behind the magnet, in line with its bore, and is viewed using a mirror mounted on the head coil (the horizontal viewing angle is 15.5°).

SereneSound Audio System

As an alternative to the Siemens audio system (Siemens Audio System Guide), patients can be provided with high fidelity audio sound using this MR compatible system from Resonance Technology http://www.mrivideo.com/product/products.asp?id=7&sub_id=14

Optoacoustics Microphone

A dual-channel noise-canceling microphone from Optoacoustics http://www.optoacoustics.com/article.php?id=10 can be used to record subjects' vocal responses while in the scanner.
Eye Tracker  Eye Tracker Guide (ASL Manual)
We have a high speed (120 Hz) Long-Range Eye Tracking system from ASL. The eye tracker tracks subjects eye movement and pupil diameter in the scanner, allowing researchers to follow where a subject is looking on the LCD screen. Eye & Scene Monitors in the scanner console room provide real-time eyetracking and can be used to monitor how well the system is performing.

Biopac GSR  GSR Guide (BioPac Software Manual)

Recording Computer
A Dell Tower is used to record GSR and eye-tracker data.

Additional Peripherals
The NIC is equipped with a number of additional peripherals to support functional MRI studies. These include:

- IORP
- MR Glasses

PsychoPy Sample Experiments
PsychoPy is an open-source application allowing you run a wide range of experiments: PsychoPy Sample Experiments

- There has been a PsychoPy update to 1.84 that is incompatible with 1.82 versions
- Experiments coded with 1.84 will not run on 1.82 due to python package requirements