Control Console
1 – Volume Line 1 input (eg., from eprime or laptop)
2 & 3 – (Not used at this time)
4 – Volume for console speaker
5 – FOMRI Noise Canceller Button (default is on: depressed)
6 – Monitor Button (default is FOMRI off: ‘up’ position)
7 – ‘Push to Talk’ button

Sanitary Precautions
Use clear Optoacoustics covers over earphones
Use small Pearltec cover over microphone.

Safety Precautions
**EARPLUGS MUST BE USED WITH THESE EARPHONES**

Earphone Positioning inside RF Coil
Earphones cannot touch the RF coil as it will negatively affect the Noise Cancellation.
Place sponges or Pearltec inflatable immobilization devices between the RF coil and the Optoacoustic earphones.

Initializing the Active Noise Control System
Touch the screen anywhere to start the ANC Wizard.
Touch the ‘Start’ button on the screen to initialize the ANC System (firm pressure is required).

Calibrating the Headphones
The headphones must be calibrated for each new scan subject or if the headphones are repositioned on the same subject.
After the headphones are in place on the scan subject, select the ‘Calibrate’ button on the screen (firm pressure is required).
The subject should lie still and not talk during this time.
Left and right channel dB meters will display the progress.
Successful calibration displays white check mark in the center for each earphone, left and right.
Now select ‘ANC’ in the upper right of the screen (firm pressure is required).

Learning the Active Noise Cancellation Model
Start the MR scanner.
Now select the ‘Learn’ button (process takes 16 seconds)
MR noise is ‘learned’ to build a noise cancellation model to eliminate most of the noise.
The subject should lie still and not talk during this time.
No stimuli should be presented/projected.

Active Noise Cancellation Mode
The ‘Learn Time’ counts down from 16.0 seconds.
Upon completion, a dynamic noise cancellation algorithm is created & automatically enters the active noise control mode.
Both the raw scanner noise & treated noise levels are displayed.
Noise cancellation continues to improve for ~30 seconds.
(if Calibration is required after repositioning the earphones, select the ‘Calibration’ button in the upper left of the screen.)