

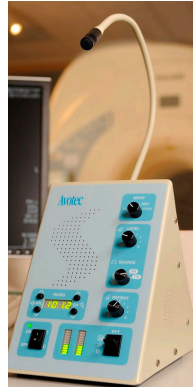
Avotec Audio Instructions

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These instructions are for the use of the Avotec audio system which provides communication between the console Operator and the scan subject, and sound from the video (fMRI task) computer to the subject.

The Avotec control box is located just left of the MR console keyboard.



The controls:

1. Power: turn on by flipping up. Green light.
2. PTT: "push to talk" button must be pushed down to turn off beeping when first turned on. This is also pushed down when Operator speaks to subject.
3. Level: volume level that the subject hears. Should start at < 5. Corresponds to the green bars right of the power button.
4. Patient: volume level that the Operator hears when the patient speaks.
5. Vol: volume level Operator hears from the fMRI task computer's audio.
6. Mode: set to "CLIN", do not change.
7. Source: set to C, do not change.



Regular Headset

The default headset that should be used for children is the over-the-ear model that has clear tubing running down to a beige box located on the floor. The white connector where the two tubes are joined will unscrew for replacing this headset by the conformal headset. Inside the connector there are 3 holes, and the deepest inset one must align with the subject's voice (not ear) tube.



Left: regular headset. Right: connector at bottom of headset tubes.

Conformal Headset (Earphones)

The alternative for larger teens and adults is the Y-tube attachment that can replace the headset. This requires disposable yellow "tips" (earbuds) that are inserted in the tube ends. The tips should be squeezed tightly for insertion deep into the ear canal. A tip is removed by holding the small white connector down while pulling the tip off.

The conformal headset and the tips are located at the back of the MR room, left of the scanner on a bottom shelf.



Technical Configuration

The configuration for the system on the front of the control box is shown on the previous page, and the configuration for the back is shown at right. The audio cable connected to audio input C is the input from the fMRI task computer. The cable connected to the XDUCER port runs through the cable tray to the equipment room where it is connected to the headset in the MR room. There is no configuration required in the MR room except attachment of the appropriate headset.

