The system is composed of:

1. **Analog to Digital Converter-ADC** with input from the PC and output to the
2. **Amplifier** that is connected via ~2m BNC cables to a
3. **Transformer/Filter** that is connected via ~4m BNC cables to the
4. **BNC connectors on the RF panel in control room** that are connected on the other side to
5. **BNC filters on RF panel** that are connected via BNC adapter (splitter) to the
6. **Headphone**
We have two headphones, both are electrical:

1. electro-dynamic headphone (HP SC03)
2. piezo headphone (HP PI US02)

<table>
<thead>
<tr>
<th>Headphone</th>
<th>Pictures</th>
<th>Coil</th>
<th>Passive dampening (at ~700 Hz, epi)</th>
<th>Passive dampening with earplugs</th>
<th>Earplugs</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP SC03</td>
<td></td>
<td>20-ch</td>
<td>up to 35 dB</td>
<td>&gt; 55 dB</td>
<td>Optional</td>
<td>1. active in the presence of a magnetic field</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2. Dedicated foam cushion</td>
</tr>
<tr>
<td>HP PI US02</td>
<td></td>
<td>32-ch</td>
<td>15-18 dB with ear defender</td>
<td>~35 dB</td>
<td>Must</td>
<td></td>
</tr>
</tbody>
</table>

The electro-dynamic headphone (HP SC03) and the piezo headphone (HP PI US02) can be connected in parallel via a BNC adapter mounted on the RF panel inside the magnet room.

Verify that only the chosen headphones are connected, and remember that the BNC filters and connectors are NOT MR-SAFE !!! So keep them away from the magnet.

If you’re working with MR CONFON headphones - **Turn off** the sensimetrics amplifier.

**Setting Up:**

- Connect the audio cable to the **front** audio socket of the stimuli computer.
- A window of the sound driver will open, mark the **Speaker** checkbox (not Headphone).
- Check that the headphone of your choice is connected to the BNC filters inside the magnet room.
- Test the earphones.

**Turning ON/OFF the system:**

There is no ON/OFF switch bottom. Since the amplifier is getting warmed, unplug the system during the weekend.

Good Luck !

Adi