

The following procedure should be followed to set up the acoustic room gain for AVT-24™ and AVT-44™ teleconference systems using non SOUND CONTROL TECHNOLOGIES microphone mixers and power amplifiers.

1: REQUIRED EQUIPMENT:

1. **Sound Level Meter** Typical Radio Shack #33-2050 (Retail around \$40.00), analog meter type will be easiest to use (vs. digital readout)
2. **MultiMeter** Typical FLUKE 83, digital display with bar graph. (Retail around \$265.00)
3. **Loudspeaker** Typical JBL Control 1, any box speaker will be fine (or powered speaker).
4. **Pink Noise Source** Several manufactures available.
5. **Power Amplifier** 10-20W amplifier if powered speaker is not available.

2: MICROPHONE GAIN:

The calibrated level into the AVT-24™ or AVT-44™ from the microphone system should be 175mvAC on the **MultiMeter**.

This level is set by introducing a **Pink Noise** source into the room environment to be measured at each microphone location (Figure 1). As shown in Figure 1 below, place the loudspeaker approximately 18" directly in front of the microphone to be calibrated. Adjacent to the microphone place the Sound Level Meter. Activate the Pink Noise source, and adjust the acoustic level to read 72dBC using slow response on the sound level meter.

Set the individual microphone levels to achieve 175mvAC on the MultiMeter. The meter should be reading the line level input into the AVT-24™ or AVT-44™.

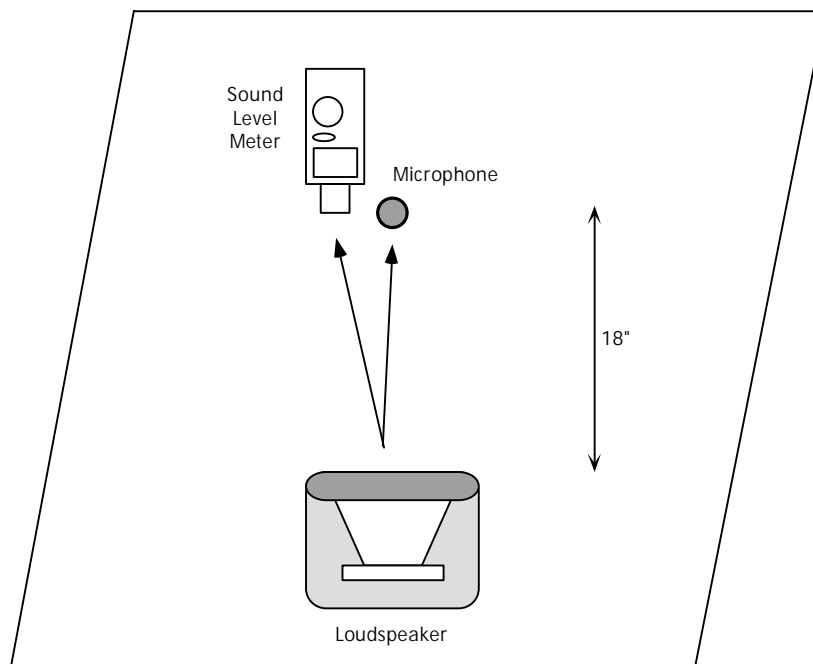


Figure 1

Repeat this process for each microphone channel individually to achieve 175mvAC on the MultiMeter. Insert the MultiMeter on the output of the room microphone mixer and the "ROOM SEND IN" on the AVT-24™ (Figure 2) or the "LINE IN" on the AVT-44™.

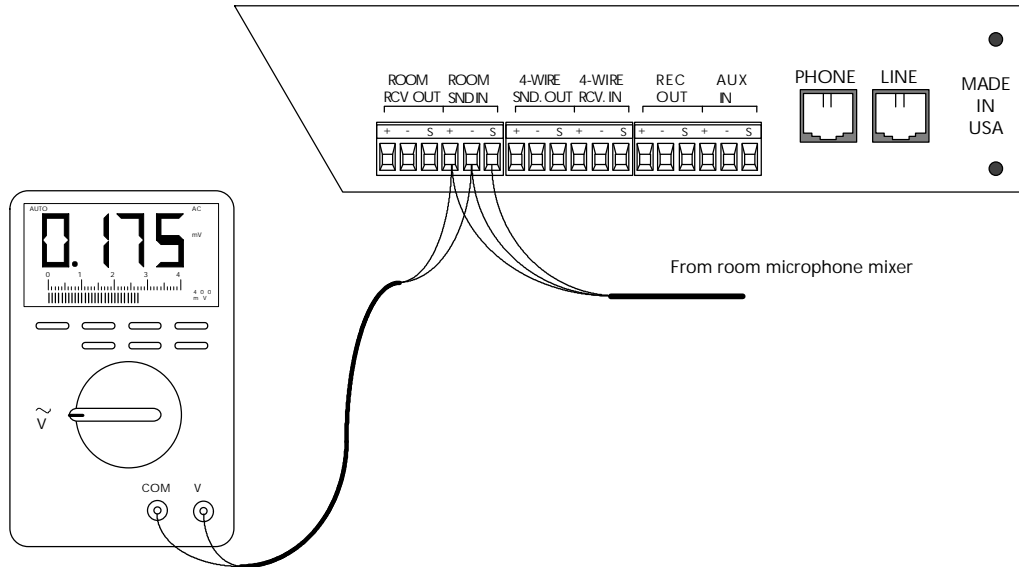


Figure 2

3: LOUDSPEAKER GAIN:

The calibrated level from the AVT-24™ or AVT-44™ into the room from an external power amplifier system or the amplifier in the AVT-44™ should be 72 - 74 dBA SPL at the **Sound Level Meter** (See Figure 3). This level is set by introducing the AVT-24™ or AVT-44™ training signal into the room and reading the level on the **Sound Level Meter** (as shown in Figure 3).

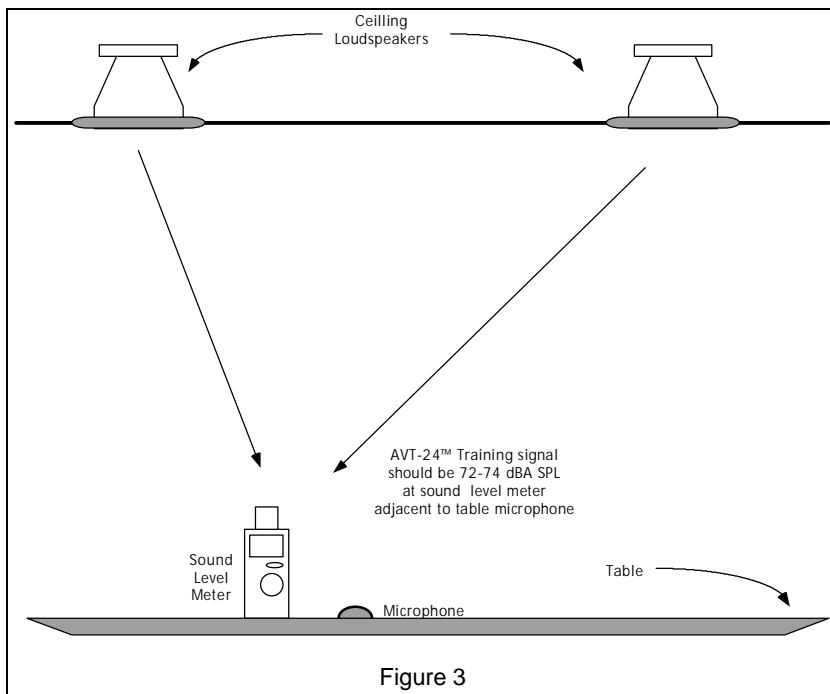


Figure 3

The Sound Level Meter should be placed near a seated positions (ear level). Acoustic level is presumed to be evenly distributed throughout the space.

If there are multiple output channels, each must be calibrated for a unity feed into the room on the teleconference signal path.