

## HearID Quick Start — Making Quality MEPA Calibrations

These Quick Start Notes cover the most common procedures. They complement, but do not take the place of the manuals. We recommend reading the manuals fully before testing patients.

### Daily Probe Calibration

- This note assumes you are familiar with the basics of making a MEPA calibration.
- Calibrate the probe at least daily. A countdown timer shows how long until the calibration expires.
- The probe can be calibrated more frequently if desired. We recommend calibrating more frequently if temperature or humidity change significantly during the day or if you change location.
- We recommend calibrating the probes before patients arrive for testing.
- High quality calibrations form the basis for quality MEPA measurements. Although the system will accept calibrations with only a 90% pass rate, aim for 100%.

### Isolate the probe and equipment from noise and vibration

- Calibrations are sensitive to environmental and electrical noise.
- Put the calibration cavity set and probe cable on a foam or rubber pad (e.g., use the foam from inside the HearID packing case).
- Ensure the probe cable is free from kinks and that it is not touching the laptop or the power cable.
- Run the laptop on battery.
- If the laptop has a noisy fan, get it serviced.
- Test in a sound-treated environment if available.

### Prepare the eartip

- Ensure the red stripe on the eartip tube lines up with the red dot on the probe and slide the eartip onto the metal tubes of the probe until you feel it pop on.
- If the stripe and dot are not lined up, forcing the tip on can damage the probe.
- Check the cavity dial is set to 0 and insert the eartip fully into the hole.
  - Foam tip: compress the foam to form a domed tip with no creases before inserting. Hold the probe in place while the foam expands.
  - Rubber tip: ensure the red rubber does not loosen from the inner tip tube when inserting.
- Ensure the probe is perpendicular to the cavity set.
  - Try moving or securing the probe cable to hold the probe head in place.

### During the calibration

- Review the measurement for each cavity setting and repeat any with high noise or glitches.
- If a channel shows a very low level, trouble-shoot for a blocked tip or probe, or a loose connection.

### Look after the equipment

- After use, always return the cavity dial to 0 so debris does not enter the tube.
- Only insert the eartip when the dial is set to 0. Inserting the tip when the dial is set to an open tube (1, 2, 3, or 4) can cause the eartip to go too deeply into the cavity. When the dial is turned, the eartip can be sliced and damaged, and particles can get into the tube.
- Always ensure the probe tip has a clean eartip on it when not being used. This helps protect the delicate metal tubes.

### Further information

- Visit our YouTube site ([www.youtube.com/MimosaAcoustics](http://www.youtube.com/MimosaAcoustics)) for video tutorials on how to make MEPA calibrations and measurements, including trouble-shooting.