



19 March 2014

## User release notes for HearID 5.1.8 for new systems

### What has changed and improved from HearID 5.1.8?

HearID 5.1.8 provides an update to the TEOAE module to version v3.5.2. It is intended for new HearID systems running with the Mimosa Acoustics USB-connected Audio Processing Unit.

1. Probe microphone equalization is used to more accurately measure the in-the-ear TEOAE stimulus and the TEOAE response. When calibrated in an artificial ear, the TEOAE stimulus is now flat as measured at the probe. In individual ears, the spectrum will vary depending on the individual ear canal acoustics. Optional in-the-ear spectral shaping calibration can then flatten the TEOAE stimulus spectrum for individual ears, as measured at the probe, which can increase test-retest reliability.
2. The calibration stimulus level is 10 dB lower, which is more appropriate for smaller ear canals while still being sufficient for large ear canals.
3. Instantaneous wideband noise is now high-pass filtered so that very low frequency noise (below 500 Hz) no longer contributes to the average. Testers will notice that the number of rejections will reduce both during calibration and testing without needing to raise the noise rejection threshold (which can cause higher-frequency noise to also pass, affecting the signal-to-noise ratio).
4. Override calibration warnings option. When a calibration warning or error occurs you can now override it. We recommend this is done only after trying to remedy the problem leading to the warning (blocked tip, leaky fit, etc), by changing the tip and repositioning it in the ear canal.
5. Leak detection criterion is now less sensitive, to reduce false alarms.
6. Some exported results are no longer rounded to 1 d.p.

**Note:** this release is not to be used as an upgrade for previous HearID systems, without consultation with Mimosa Acoustics. This is because the new TEOAE module changes and improves how the measurements are analyzed. Tests made on older systems can be reviewed, but should not be directly compared to new measurements made with this release (e.g., if monitoring a patient for changes in TEOAEs over time). Please contact Mimosa Acoustics or your vendor if you would like to upgrade and still use your existing data, or if you would like to apply the new equalization to your old data, and we will discuss your options.