

Aurical Visible Speech

Basic Speech Mapping Measurements

Before the Patient Arrives

1. Remove the Speech Link collar from the charger and turn it on.
2. Open up Noah, your patient file and the OTOsuite software program.
3. Verify connection to the Speech Link collar to the software—blue blinking light.
(When off the charger, green blinking light=not connected. Blue blinking light=connected.)
4. Attach new probe tubes and perform a probe tube calibration as shown:



5. Prepare the patient's hearing aids for testing.

Prepare the Patient

1. Seat the patient 18 to 36 inches from the two speakers. Speakers position the speakers at an approximate 45 degree azimuth from center:



2. Place the probe assemblies on the patient's ears and the probe tubes in the ear canals.
(Probe depth: 28 mm for females, 30 mm for males past the tragal notch, Or 5 mm from the tip of the mold/hearing instrument.)



3. Be sure the reference microphone is positioned towards the front of the head

Measurement Procedure

1. Perform an unaided measurement using Babble stimulus.
2. Insert the hearing instruments and turn on.
3. Perform an aided measurement for **comfortable** input using recorded Babble with the volume slider in the middle (65-70dB).
4. Perform an aided measurement for **soft** input using recorded Babble with the volume slider 4 notches to the left (55-60dB).
5. Perform an aided measurement for a **loud** using the Airplane stimulus with the volume slider in the middle.

Goals in Verification using the Audibility Area

1. Soft speech to be audible: Response curve should be at the lower level of the audibility area
2. Moderate speech is comfortable: Response curve should be covering the audibility area
3. Loud sounds are tolerable: Spectral peaks should not exceed the UCL values