



Madsen Alpha OAE and Alpha OAE+ Frequently Asked Questions

Question	Answer																											
What are Otoacoustic Emissions OAE?	OAEs are signal that are generated by the cochlea in response to sound. For Distortion Product OAE (DPOAE) two pure tone signals are used. Transient Evoked OAEs (TEOAE) use a click stimulus.																											
How does the Madsen Alpha OAE differ from other OAE screeners?	<p>The Madsen Alpha OAE has a</p> <ul style="list-style-type: none"> • large touch screen display for extreme ease of use • child mode that allows for a cartoon to play during testing • built in probe test cavity to ensure accurate testing daily 																											
How many tests can the Madsen Alpha OAE store?	The Madsen Alpha OAE can store 50 tests. The Madsen Alpha OAE+ can store 500. Each unit allows the user to automatically delete the oldest tests or manually remove old data.																											
How many protocols and test frequencies are in the Madsen Alpha OAE?	The Madsen Alpha OAE has 1 predefined protocol. It tests 2-5 kHz using 65/55 dB SPL. It will automatically stop when 3 out of 4 frequencies pass or 2 out of 4 frequencies refer.																											
How many protocols and test frequencies are in the Madsen Alpha OAE+?	<p>Madsen Alpha OAE+ has 8 predefined protocols:</p> <table border="1"> <thead> <tr> <th>Protocol</th> <th>Stimulus</th> <th>Pass Criteria</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>2500-6000 Hz 65/55 dB SPL (L1/L2)</td> <td> <ul style="list-style-type: none"> • 4 out of 6 frequencies for a pass (-5 dB minimum DP amplitude) • Auto stop when criteria is met </td> </tr> <tr> <td>2.</td> <td>2500-6000 Hz* 65/55 dB SPL (L1/L2)</td> <td> <ul style="list-style-type: none"> • 4 out of 6 frequencies for a pass (-5 dB minimum DP amplitude) • No auto stop </td> </tr> <tr> <td>3.</td> <td>2000-5000 Hz 65/55 dB SPL (L1/L2)</td> <td> <ul style="list-style-type: none"> • 3 out of 4 frequencies for a pass (-5 dB minimum DP amplitude) • Auto stop when criteria is met </td> </tr> <tr> <td>4.</td> <td>2000-5000 Hz 65/55 dB SPL (L1/L2)</td> <td> <ul style="list-style-type: none"> • 3 out of 4 frequencies for a pass (-5 dB minimum DP amplitude) • No auto stop </td> </tr> <tr> <td>5.</td> <td>1500-6000 Hz 65/55 dB SPL (L1/L2)</td> <td> <ul style="list-style-type: none"> • 4 out of 6 frequencies for a pass (-5 dB minimum DP amplitude) • Auto stop when criteria is met </td> </tr> <tr> <td>6.</td> <td>1500-6000 Hz* 65/55 dB SPL (L1/L2)</td> <td> <ul style="list-style-type: none"> • Tests all frequencies, no auto stop (-5 dB minimum DP amplitude) • No Pass or Refer is assigned </td> </tr> <tr> <td>7.</td> <td>2000-5000 Hz 65/55 dB SPL (L1/L2)</td> <td> <ul style="list-style-type: none"> • 3 out of 4 frequencies for a pass (-10 dB minimum DP amplitude) • Auto stop when criteria is met </td> </tr> <tr> <td>8.</td> <td>1500-5000 Hz 70/84 dB SPL click</td> <td> <ul style="list-style-type: none"> • Pass requires 8 peaks in the range 6 ms to 12 ms of the response • Auto stop when criteria is met </td> </tr> </tbody> </table> <p><i>*meets criteria for US CPT code 92587</i></p>	Protocol	Stimulus	Pass Criteria	1.	2500-6000 Hz 65/55 dB SPL (L1/L2)	<ul style="list-style-type: none"> • 4 out of 6 frequencies for a pass (-5 dB minimum DP amplitude) • Auto stop when criteria is met 	2.	2500-6000 Hz* 65/55 dB SPL (L1/L2)	<ul style="list-style-type: none"> • 4 out of 6 frequencies for a pass (-5 dB minimum DP amplitude) • No auto stop 	3.	2000-5000 Hz 65/55 dB SPL (L1/L2)	<ul style="list-style-type: none"> • 3 out of 4 frequencies for a pass (-5 dB minimum DP amplitude) • Auto stop when criteria is met 	4.	2000-5000 Hz 65/55 dB SPL (L1/L2)	<ul style="list-style-type: none"> • 3 out of 4 frequencies for a pass (-5 dB minimum DP amplitude) • No auto stop 	5.	1500-6000 Hz 65/55 dB SPL (L1/L2)	<ul style="list-style-type: none"> • 4 out of 6 frequencies for a pass (-5 dB minimum DP amplitude) • Auto stop when criteria is met 	6.	1500-6000 Hz* 65/55 dB SPL (L1/L2)	<ul style="list-style-type: none"> • Tests all frequencies, no auto stop (-5 dB minimum DP amplitude) • No Pass or Refer is assigned 	7.	2000-5000 Hz 65/55 dB SPL (L1/L2)	<ul style="list-style-type: none"> • 3 out of 4 frequencies for a pass (-10 dB minimum DP amplitude) • Auto stop when criteria is met 	8.	1500-5000 Hz 70/84 dB SPL click	<ul style="list-style-type: none"> • Pass requires 8 peaks in the range 6 ms to 12 ms of the response • Auto stop when criteria is met
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What ages can be tested with Madsen Alpha OAE?	The Madsen Alpha OAE and Alpha OAE+ screeners can be used to test people of all ages.																											
What does a REFER mean?	<p>A REFER can mean several things:</p> <ul style="list-style-type: none"> • Middle ear fluid • Ear wax • Improper testing technique • Hearing loss <p>If a REFER result is received, the test should be repeated. If another REFER is obtained, further testing should be completed (audiometry, tympanometry).</p>																											



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Which tip should I use for the test?	Ears come in many shapes and sizes. For those reasons, Madsen Alpha comes with a variety of ear tips. It is important that the ear be “sealed”. The best test results are obtained when the ear tip is seated deeply into the ear canal. This keeps external noise out and test tones and responses in!
How do I turn off the external sound on Madsen Alpha?	From the Main Menu select Settings then select Sound. Here you will see the option to turn the sound on/off for touch screen taps and at the end of a test. To change, simply touch the icon.
How do I delete a test?	From the Main Menu select Delete. Next you will be prompted to delete a Single Test or All Tests. Deleting All Tests will clear the memory. By selecting Single Tests you will be brought to a new screen to choose which test you would like to delete.
What is the maximum of the logo I can use in the Alpha OAE+ Print Utility?	The logo should have a resolution of 500 (width) by 500 (height).
I see Large Volume Detected on my test screen. What does that mean?	This can mean that the probe is not in the ear properly, a large enough ear tip is not being used, or it could mean that the patient has pressure equalization (PE) tubes. Once you have checked the probe fit you may choose to use the Manual Start feature.
What is the Manual Start feature?	Manual Start is used in cases where large ear canal volumes may not allow for proper stimulus levels to be reached. In this case, the Madsen Alpha OAE will calibrate and test at maximum SPL values. Prior to initiating this feature the operator should always check the probe to be sure a secure probe fit is achieved.
What is the Small Tip kit used for?	The small tip kit provides smaller ear tips, a smaller probe tip and a calibration cavity. This is ideal for testing the smallest of children—for example, newborn hearing screening follow up. To test the probe using the smaller probe tip, you should always use the provided external test cavity for an accurate probe check.
What do the red bars mean during the DPOAE test?	This indicates that test conditions are too noisy. Consider changing the environment in which you are testing or move to a quieter setting. It is possible to get a pass result with the red bars present. This is just one more way the Madsen Alpha OAE offers user feedback.