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We believe that it takes more than technology and audiology to create the best hearing instruments.
That's why we put the individual needs and wishes of people with hearing loss first in our development of new hearing care solutions.

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Oticon • Amigo

Fitting the Amigo FM System

Using Affinity HIT

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Fitting the Amigo FM System using Affinity HIT

1. Load Affinity through **NOAH**.
2. With Affinity, you have to define the test in order to be able to start it. Make a new protocol for Gain Balance.
3. Go to Setup -› *Custom* test -› (see image 1).

   a. Press **New** (1)

   b. Choose **Response Curve** (2)

   c. Press **Add** (3)
4. Select **Test**.
5. Input level: 65 dB SPL.
6. Choose the coupler that you have available.
7. *Stimulus type*: Pseudo-random noise.
8. Press **OK**.
9. Repeat this procedure two more times, and for the last curve select 80 dB SPL. Choose different colours for the three curves to make things easier.
10. Choose the appropriate SPL levels and noise types.

    You are now ready to start the test.
11. Attach the coupler to the coupler microphone and connect the hearing aid hook to its tube (without the receiver). Turn on the instrument, place its microphone on the reference position inside the box, and close the lid (see image 2).

Image **1**

Image **2**

12 Run Curve 1 (that you have already defined) (see image 3).

13 Attach the FM shoe and receiver to the aid. Turn on the receiver in the desired mode - FM only or FM+HA. Turn on the transmitter and make sure that both units are set to the same channel by listening to the hearing aid output.

14 Place the FM transmitter microphone on the reference position inside the box and close the lid. The hearing aid and receiver should be placed just outside the box (see image 4).

* If any of the measurement graphs starts from a higher level and drops within a few seconds by a few decibels, it probably means that the hearing aid noise reduction or the Advanced DSP in the transmitter are enabled. If you cannot turn these off, try to save the graph before it is suppressed, to obtain the correct results.

Image **3**

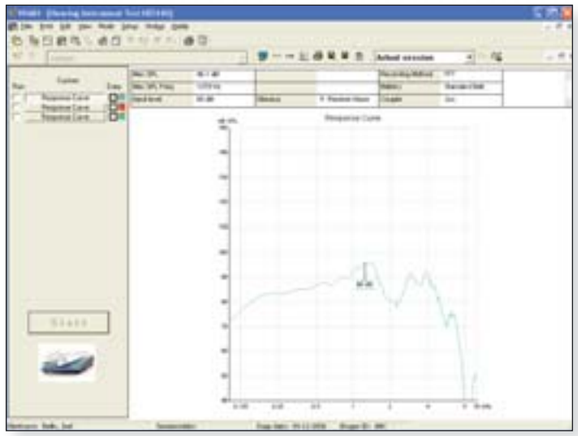


Image **4**

15 Run Curve 2. If measuring in FM+HA mode, be as quiet as possible for more accurate results. Curves 1 and 2 should more or less overlap (see footnote on page 4). If they fail to do so across most of the frequency range, increase or decrease the gain accordingly by accessing the receiver menu through the transmitter. Please note that this can only be achieved with a complete Amigo system (see image 5).

16 Run Curve 3. The new curve should show an advantage of up to 10dB in output, compared to curves 1 and 2 (see image 6).

17 The receiver is now fitted. If necessary, the fitting can be repeated in the other receiver mode, but the gain can also be copied using the same gain value from the FM to the FM+HA mode, or vice versa.

18 Re-enable all the features previously disabled in the hearing aid and transmitter, and make a subjective test with the fitted receiver on the hearing aid user in order to verify that the setting is satisfactory.

Image **5**

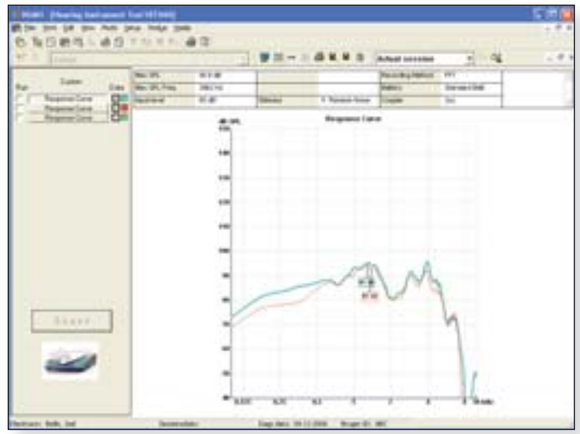
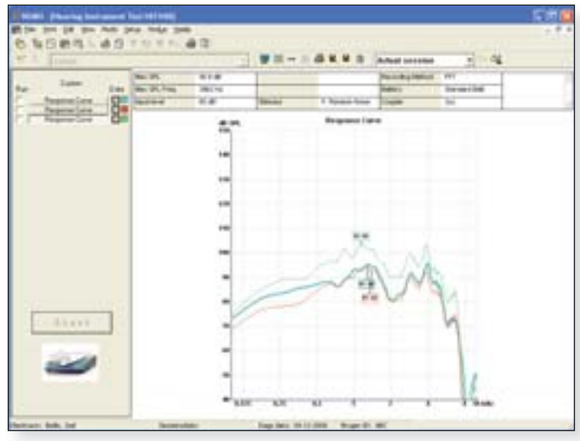


Image **6**



Programming function needed while fitting Amigo in the test box

To access the programming function in Amigo

- Access the Amigo Fitting Menu by pressing the C (on the keypad) and ON/OFF buttons (see image 7).
- When the **Transmitter** is being programmed: Access the **View/Program Transmitter** menu by using the ▶ button (see image 8).
- When the **Receiver** is being programmed: Access the **View/Program Receiver** menu by using the ▶ button. The transmitter will then 'find' the receiver and display its name or serial number. Press ▶ to continue (see image 9).

Advanced DSP

The Advanced DSP function is designed to reduce stationary monotonous noises that are common in quiet settings. Frequently-used stimuli in test boxes, such as pink noise and pure tones, can also activate the Advanced DSP and it should therefore be disabled beforehand, if such stimuli are to be used in the test.

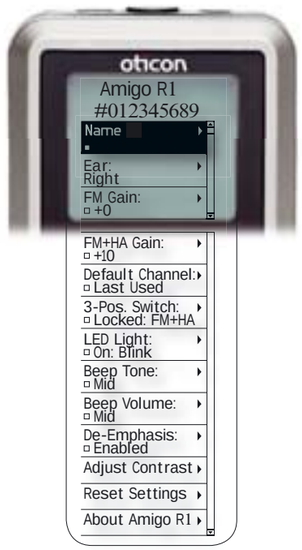
To disable the Advanced DSP feature in the Amigo transmitter

1. Access **View/Program Transmitter**
2. Scroll down the menu using the down arrow key until **Advanced DSP** is highlighted. Press ▶ to access this function (enable or disable), press SYNC (middle key) to make your selection, and press ◀ to save and exit.
3. Exit the fitting menu by pressing the C and ON/OFF keys again.

Image **7**

Image **8**

Image **9**



Pre/De-Emphasis Filter

Turning the Pre-Emphasis On and Off in the Amigo Transmitter (mixed systems only)

The emphasis filter is a special feature used only in complete Amigo systems. The Amigo transmitter uses a pre-emphasis filter, whereas the receiver has a de-emphasis filter. Whenever mixed systems are used, and before fitting their receivers, the emphasis filter should be turned off.

To disable the Pre-Emphasis feature in the Amigo transmitter:

1. Access the **View/Program Transmitter**
2. Scroll down the menu using the down arrow key until **Pre-Emphasis** is highlighted. Press ▶ to access this function (enable or disable), press SYNC (middle key) to make your seclection, and press ◀ to save and exit.
3. Exit the fitting menu by pressing the C and ON/OFF keys again.

Turning the De-Emphasis On and Off in the Amigo Receiver (mixed systems only)

Place the Amigo receiver within 20-40 cm of the transmitter. The receiver must be turned on and connected to a working hearing aid or cochlear implant adapter. Maintain the receiver in the same position during the entire programming sequence. Each time you change a default setting, the programmer will send the new setting to the receiver.

To disable the De-Emphasis feature in the Amigo receiver:

1. Access the **View/Program Receiver**.
2. Using the arrow keys, scroll down to **De-emphasis**. Press ▶ to access its menu and select Disable or Enable, using the SYNC key (middle key). When finished, press ◀ to save and exit.
3. Exit the fitting menu by pressing the C and ON/OFF keys again.

Programming the Receiver Gain

To change the receiver gain in either FM or FM+HA mode, enter the receiver menu and:

1. Access the **View/Program Receiver**.
2. Using the arrow keys, scroll down to **FM gain**. The default setting is +12. When finished, press ◀ to save and exit.
3. Choose **FM+HA Gain**; the defaults are the same as in **FM Gain**. Use the ▲▼ buttons to navigate and change the gain value. When finished, press the ◀ button to save and exit.