

The Oticon Amigo R12 is a dedicated, multi-channel receiver for the Oticon Vigo and Oticon Epoq family of hearing instruments.

Dedicated

The R12 is the world's first ear-level receiver for battery size 312 hearing instruments. The smaller dimensions make the combined size of hearing aid and receiver even more attractive.

The receiver offers FM connection to state-of-the-art devices via a secure, tamper-resistant battery door that prevents the receiver from being removed or accidentally lost.

Certainty

The R12's unique, patented LED provides instant confirmation that the FM system is correctly configured. This light confirms that the hearing aid battery is working, and that the receiver is on and receiving an FM signal.

Sound quality

Hearing instrument bandwidths are constantly increasing, and the wide bandwidth of the Amigo FM solution supports this development. To help the child develop good language and communication skills, Amigo reduces noise and prioritises speech.

- The 7.5 KHz bandwidth captures a maximum of speech cues – particularly in the high frequencies
- Advanced digital signal processing is applied to obtain the clearest possible speech signal.

Open system philosophy

The Pre- and De-Emphasis controls make it easy to use virtually any FM transmitter with the Amigo R12.

- Frequency response and compression strategies are compatible with FM transmitters from other manufacturers.
- Channel synchronisation can be carried out by pressing the Channel Seek button on the R12 independent of the transmitter brand. This will start an automatic scan for an active FM signal, and lock on to a channel containing an FM signal.



Features

- The R12 can be synchronised and fitted wirelessly by an Amigo T20/T21/WRP
- Easy connection to Oticon Epoq and Oticon Vigo instruments
- LED indicator
- Programmable De-Emphasis
- Channel Seek function
- Intelligent SLEEP and OFF modes
- 0-30 dB gain range
- Wireless synchronisation
- Tamper-resistant battery door lock

Compatibility with hearing instruments

The Amigo R12 can only be used with the Oticon Epoq and Oticon Vigo family of hearing instruments.



Channel management

With Amigo transmitters and receivers, channel management is easy. The Amigo Channel Wizard in T20/T21/WRP scans the environment to identify interference-free channels, which can then be programmed into the receivers. Please see the Amigo Fitting Guide for more information.

Hearing instrument program management

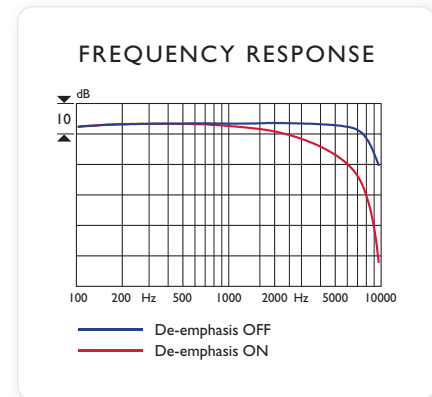
The Oticon Epoq and Oticon Vigo hearing instruments automatically add two programs when a connection to an FM receiver is detected, and these will default to the FM+M setting.

To switch between programs, simply use the toggle switch on the hearing instrument. When the receiver is OFF or in sleep mode, the two programs will be automatically disabled.

Sleep mode

Should the FM signal be absent for more than 7 seconds, the R12 will fall into Sleep Mode to conserve energy and the LED will turn Off. It will wake up every 5 seconds to search for an FM signal. Should the signal be absent for more than 90 minutes, the R12 will automatically drop into OFF mode. It will then have to be turned on manually.

In sleep mode, the hearing instrument will disable the two FM programs, but if the R12 detects an FM carrier, the two programs will be added automatically again.



Amigo R12

Dimensions	14 x 8.3 x 11 mm
Weight	1.3 g
Battery drain	1.70 mA with LED ON (blinking) 1.67 mA when LED is OFF 0.60 mA in sleep mode 170 µA in OFF mode
OFF	Press the channel button for two seconds to turn the R12 off
Supply range	0.9-1.8 V
Operating frequencies (country dependant)	169.40-169.80 MHz 173.30-175.05 MHz 181.40-186.40 MHz 216.00-218.00 MHz
Programming frequency	3.7 MHz (magnetic link)
Channel selection	The Amigo R12 has a Channel Seek button. Press this once to seek and lock on to a channel with an FM signal.
De-emphasis (can be disabled)	80 µs time constant
Channel spacing	150 kHz
Antenna type	Built-in
Colour	The Amigo R12 is available in a champagne colour
Emissions	The Amigo R12 is in compliance with all relevant standards
Intended climate conditions	-10-50°C
FM range	Up to 30 m
Audio bandwidth	100 Hz-7.5 kHz
Programming range	50 cm (T20/T21/WRP)
Synchronisation range	Up to 80 cm (T20/T21/WRP)
SNR	50 dB
Distortion	THD < 1 %