

Important notice

Please familiarize yourself with the entire contents of this guide before using your Amigo R12 receiver. This guide contains safety instructions and important information about use and handling.

Introduction

The Amigo R12 is part of Oticon’s Amigo FM product family, which is designed to make listening at school and at home considerably easier.

Features



Preparing your FM system

Setting the system up requires an FM transmitter, an Oticon Amigo R12 and either an Oticon Epoq or an Oticon Vigo hearing instrument. Connect the Amigo R12 to the hearing instrument (see pictures) and switch on the FM transmitter to activate the FM system. Please see the user guide for the FM transmitter for more information.

Attaching the Amigo R12 to an Epoq or Vigo hearing device

1. Open the battery door.
2. Insert a battery into the hearing device.
3. Slide the Amigo R12 on until you feel a small “click” (use of force is unnecessary).
4. Close the battery door carefully.
5. The battery door can be made tamper resistant by turning the screw 45 degrees (when optional tamper-resistant battery door is ordered with hearing aid).



Note: NEVER attempt to open the receiver casing.

Hearing instrument operation

When the Amigo R12 is connected, the hearing instrument will automatically detect the R12 and add two extra programs. The hearing instrument program will default to FM + M (Hearing instrument microphone). If you need to change the setting to FM only, you can switch to the next program on the hearing instrument by using the program switch button.

With the Amigo R12 attached the push button of the hearing instrument can at any time be used to switch back and forth between standard programs and the two FM programs.

Note: For detailed instructions on handling and use of the hearing instrument, please refer directly to the specific hearing instrument user guide.

LED

The Amigo R12 has a Light Emitting Diode (LED). When this light is on and blinking, it confirms that:

- The hearing aid battery is working.
- The receiver is ON.
- The receiver is receiving an FM signal.

Programming the LED

Use an Amigo T20/T21 or an Amigo WRP to program the LED in one of two ways:

- ON:** Blink. The LED will blink when an FM signal is present.
- OFF:** The LED will remain off, even though an FM signal is present.

Note: Amigo receivers have no battery. They draw a small amount of power from the hearing aid battery.

Push button channel changer

The Amigo R12 has a push button that can be used to change channel.

- A short press will launch a search through the pre-defined channel list search.
- A longer press (more than two seconds) will turn the Amigo R12 OFF.

A short melody will be played to notify the user that the R12 goes into off mode.

The R12 only scans the channels that are in the channel list. If no channel can be found (because there is no FM signal) it will revert to, and remain on, the original channel.

If more than one channel with a strong FM signal is present, it will lock on to the first one in its channel list. For a different channel, simply press the button again.

Channel management

The Amigo R12 contains a predefined list of channels, all of which are functional. You can customise the channel list using the Amigo T20, T21 or WRP. These units can also be used to wirelessly synchronize the Amigo R12.

Amigo receivers can be programmed to wake up in the channel last used or any pre-specified channel. If you are not using the Amigo T20, T21 transmitter or WRP, you can still change channels using the pushbutton on the R12.

Amigo receiver features

The Amigo R12 has Sleep Mode functionality. Whenever the FM signal is no longer present for more than 7 seconds, the unit will automatically “fall asleep” to conserve battery power. A built-in signal sensor will detect any FM signal. When this signal reappears, the receiver will reactivate and the LED will be lit. 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 by pressing a few seconds on the receiver’s push button.

In sleep mode, the hearing instrument will disable the two FM programs and revert to the P1 of the hearing aid, but if the R12 detects an FM signal, the two programs will be added automatically again at which time the program will now be FM+M.

Using with other manufacturers’ products

The Amigo R12 receiver is compatible with most other manufacturers’ FM transmitters; however, Amigo receivers can only be synchronized wirelessly with the Amigo T20, T21 or WRP.

To ascertain whether an FM signal is present, you must ensure that both the transmitter and the receiver are on the same channel. To change channel on the R12, simply turn on the transmitter (to one of the channels pre-programmed in the receiver), and press the push button on the R12.

Note: The channel selected on the transmitter must be in the receiver channel list.

Amigo T20, T21 and WRP

If an Amigo T20, T21 or WRP is used with the Amigo R12, the following programmable features will be available:

- Multi-channel (can be wirelessly programmed with an Amigo T20, T21 or the WRP)
- LED indicator
- Manual channel pushbutton
- Assigning a name to the receiver
- Assigning an ear to the receiver
- FM-only gain
- FM+M gain
- Confirmation beep

Note: When using the R12 together with other manufacturers’ transmitters, the De-Emphasis in the R12 must be disabled to maintain the sound quality of the system.

Troubleshooting

Problem	Solution
No sound / no FM reception	Check that the hearing aid battery is inserted correctly. Check that the receiver is on and correctly connected. Check that the transmitter is on. Press the Amigo transmitter SYNC button again.
The R12 cannot be synchronized	Synchronization takes place wirelessly, so if the receiver fails to confirm (with three blinks of the LED), try to move the Amigo T20/T21/WRP closer, farther away or slightly to one side. Then press the SYNC button again.

Cleaning

Being moisture repellent, the Amigo R12 is easy to clean. It should be cleaned on a regular basis, using a damp cloth. DO NOT use liquids to clean the R12.

Safety requirements regarding Direct Audio Input (DAI)

The safety of an Amigo with DAI (Direct Audio Input) is determined by the external signal source. When connecting the DAI to AC-operated equipment, this equipment must comply with IEC-60065, IEC-60601 or equivalent safety standards.

Manufacturers’ warranty

As the manufacturer, Oticon, issues a two-year limited warranty to the original consumer of this product.

This warranty comes into effect upon the date of original purchase of this equipment, and will remain in effect for two calendar years from that date.

What is covered by this warranty?

Any electronic component which, due to workmanship, manufacturing, or design defects, fails to function properly under normal use during the warranty period will be replaced or repaired at no charge for parts or labor when returned to the point of purchase. Transportation must be paid by the customer. If it is determined that repair is not feasible, the entire unit may be replaced with an equivalent subject to mutual agreement between the hearing care professional and customer.

Warnings and precautions

Amigo parts can be dangerous if swallowed:
Amigo receivers should be kept out of children’s reach and anyone else who might play with them and cause injury to themselves. Special attention should be paid to prevent children from swallowing them and perhaps choking. If a receiver is swallowed, see a doctor immediately.

- NEVER change the battery and never connect the receiver to the hearing instrument in front of infants, small children or people with learning difficulties.

System dysfunctions

The Amigo system will cease to function if the batteries run out. The system may also produce a high whistling noise (feedback) if the battery is low, or if it is subjected to loud sound while the microphone is off but the receiver is still on. Users should be aware that these sounds should not be confused with warning sounds – e.g. car horns in traffic.

Interference

Your receiver has been thoroughly tested for interference, according to the most stringent international standards. But new technical developments constantly bring new products into society, and some may emit electromagnetic radiation, leading to unforeseen interference in hearing instruments. Examples include induction cooking appliances, shop alarm systems, mobile telephones, fax machines, personal computer devices, X-rays, computer tomography etc.

Use in aircrafts:

- FM systems should not be used on aircrafts without the permission of the flight crew.

Please note that Amigo FM devices can cause interference with other medical devices. Such interference can also be caused by radio signals, power line disturbances, airport metal detectors, electromagnetic fields from other medical devices and electrostatic discharges.

Manufacturer’s declaration

This Amigo product fully complies with the essential requirements and other relevant provisions of Directive 1999/5/EC. Declaration of conformity is available at:

Oticon A/S
Kongebakken 9
DK-2765 Smørum
Denmark.
www.oticon.com

Statement:

NOTICE:
This device complies with Part 15 of the FCC Rules (and with RSS-210 of Industry Canada). Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

NOTICE:
Changes or modifications made to this equipment not expressly approved by Oticon A/S may void the FCC authorization to operate this equipment.

NOTICE:
This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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Waste from electronic equipment must be handled according to local regulations.



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