Oticon Amigo

FM for Real Life







Hearing more speech

Keeping it simple

Designed for real life

The new Amigo T30 and T31 FM educational transmitters are prime examples of technological evolution designed to meet the demands of real life situations. That's what our "FM made friendly" promise is all about.

It's all about...

learning and socializing.

We listen and respond we respond.

Amigo keeps on getting better The Amigo T30/T31 transmitter is a perfect example of evolution designed to meet real life demands. Teachers and audiologists seeking simplicity and reliability will find these qualities in Amigo. And students seeking clear access to speech, comfort and a way to fit in will experience all this and more.

Keeping it simple

With the Amigo T30/T31, the audiologist has full programming and fitting capabilities in the same unit and the teachers can get classes underway at the mere touch of a button.

More bandwidth for more speech

While some FM systems use vital bandwidth for data transmission, Amigo uses every bit of bandwidth on transmitting key highfrequency speech cues.

Inspiring confidence With built-in LEDs in both receiver and transmitter, teachers can be certain that Amigo is working properly.

Built for real life Since there's no time for down time, Amigo is built to withstand the daily wear-and-tear of life in the classroom.



Oticon's commitment to the pediatric cause is evident in Amigo, an ever-evolving family of FM solutions. In everyday situations - particularly at school - Amigo delivers what children need the most: maximum speech intelligibility for language development,

For over a century Oticon has been creating specialized solutions for adults and children of all ages. When professionals and users describe the challenges they face, we listen. And whenever technological developments offer opportunities for improvement,



< Amigo R12 Ear FM Gain • +8 LED Light

Hearing

more speech

Keeping it simple



Program transmitters directly The Amigo T30/T31 programming menus offer easy access to features such as Team Teaching; individual FM channels and advanced digital sound processing.

Fit receivers on the spot Amigo receivers can be fit either liveon-the-ear at school or at your clinic for optimum convenience.

Saving the audiologist valuable time

By taking the tedious work out of programming and fitting, Amigo makes the school day easier and more productive.

Rather than making audiologists take extra time gathering PCs, cables and other required programming devices, the Amigo T30/T31 offers full programming and fitting capabilities in the palm of your hand. Preprogrammed channels and a built-in Channel Wizard take the work out of

channel management by creating a prioritized local channel list. A simple menu leads you through the individual steps, and features such as Team Teaching can easily be enabled or disabled. A flexibile programming range of 1-20 inches ensures robust, easy fitting of receivers.

Easy upgrades to the latest software Amigo T30/T31 transmitters are equipped with a USB port for easy upgrading of software. Access to new features will keep your Amigo transmitters efficient and cost-effective.



Freedom to choose

Audiologists don't want to be limited to which FM system to use. That's why Amigo offers complete freedom to choose. Amigo solutions work with virtually all BTEs, CI processors and other brands of receivers and transmitters, without compromising signal durability or sound quality.



No child should be left behind



Hearing more speech

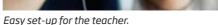
Keeping it simple



As part of their daily routine teachers have to operate FM systems. As part of Oticon's commitment to provide user-friendly solutions, Amigo makes this process simple.

- 3 simple actions teachers can do at the touch of a button:
- Synchronize the transmitter and receiver
- Activate Team Teaching
- Mute the microphone









Waist-worn with belt clip.

Omni-directional microphone

Teachers want less hassle with FM

Teachers want to spend their time on teaching - not on trying to decipher complex FM systems! With the Amigo T30/T31 all they have to do is press a button. There are no disruptions to daily routines - only discreet, dependable FM support.

The display screen provides instant validation of actions taken, to avoid confusion and accidental adjustments.

Teaching the way they like

The Amigo T30/T31 comes with a high quality onmi-directional lapel microphone. To fit the teacher's style or individual situation, directional or boom microphones are also available - all with a built-in external antenna in the microphone cord.

Wearing it the way they like

For maximum comfort and flexibility the transmitter can be worn on either a belt or in a pocket.





Boom microphone.

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More bandwidth for more speech

Amigo uses every bit of its broader bandwidth to provide clear, consistent access to vital speech cues. No other FM system can match that!

At school, children spend their days in constantly alternating listening situations (Crukley & Scollie, 2010). A hearing loss can make navigating through the day extremely tiring. As the day progresses it becomes increasingly difficult to fill in missing information or instructions - affecting the child's ability to learn. By providing clearer access to vital speech, Amigo helps children stay on track.

Capturing high frequency phonemes Today's advanced hearing solutions

employ extended bandwidth to capture key high-frequency speech cues - a benefit that FM systems should take advantage of.

Research has shown that children with hearing loss can benefit from additional high frequency information available with broader bandwidth (Kortekaas & Stelmachowicz, 2000).

With a bandwidth broader than any other FM system (8.5 kHz), Amigo T30/ T31 transmitters can make the soft

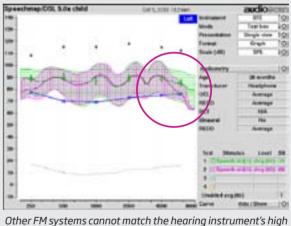
consonants stand out more clearly. By capturing more high-frequency information Amigo delivers more natural sounding speech - a quality that makes listening far less fatiguing.

Rather than diverting valuable bandwidth on communicating with the receiver, as in some FM systems, the Amigo T30/T31 uses it to improve speech intelligibility. Maximum speech intelligibility makes language development, learning and socializing easier for the child (Flexer, 1995).

Amigo's 8.5 kHz bandwidth compliments extended high-frequency bandwidth hearing instruments.

It doesn't get clearer than Amigo With an FM system designed to handle the broader bandwidth offered by today's advanced hearing instruments, children gain more access to the sounds they need to hear (Lindley, 2009).

Verification of acoustic transparency. When an Amigo R12 receiver is coupled to a Safari 900 13P BTE, the Amigo T30/ T31 takes advantage of the fuller bandwidth. Amigo matches Safari's frequency response even at higher frequencies and the desired acoustic response is maintained.



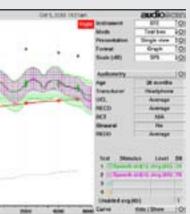
frequency response.

As the graphs above indicate, Amigo offers a closer match to the frequency response of broader bandwidth instruments, and consequently broader acoustic transparency than other ear level FM systems on the market. So professionals needn't be in any doubt as to which FM system provides the most auditory information.

References

Crukley, J. and Scollie, S. (2010): A school-age listening landscape: Implications for hearing aids. IHCON conference, Lake Tahoe, California, August 2010 (poster). Flexer, C. (1995): Classroom management of children with minimal hearing loss. The Hearing Journal, 48 (10), 53-58. Kortekaas R. and Stelmachowicz P. (2000): Bandwidth effects on children's perception of the inflectional morpheme /s/: acoustical measurements, auditory detection, and clarity rating. Journal of Speech, Language and Hearing Research, 43: 645-660. Lindley, G. (2009): Children seen to gain extra benefit from greater bandwidth, binaural compression. The Hearing Journal. 62 (10), 28-33.

No child should be left behind



Verification you can trust

- Amigo makes it easy to comply with the latest Hearing Assistive Technology verification guidelines.
- Amigo doesn't alter the gain in the receiver; so audiologists can trust the signal to remain stable.

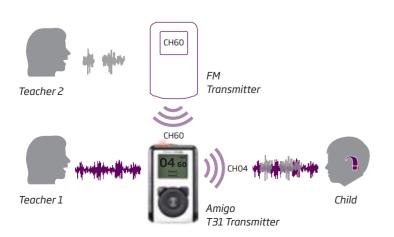
Hearing more speech

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Teachers want to be heard

Teachers on the move - and teachers teaming up - can trust Amigo to transmit every word.



In today's schools, teaching is often dynamic and interactive. Teachers move around a lot - as do students. And just as classmates often work in groups, teachers often run classes in pairs.

In Team Teaching situations, teachers need to know they can be heard - even when they're talking simultaneously. While some FM systems cut one teacher off when the other starts talking, Amigo keeps both voices audible, securing a natural conversation flow.

How Amigo keeps Team **Teaching natural**

The Team Teaching transmitter - the T31 - supports natural interaction by sending the voice of both teachers directly to the child's FM receivers.

With no artificial cut-offs, teachers won't have to stop and wait to make way for each other's words; they can relax and communicate freely.

And since the students with hearing loss will experience the teacher's dialog in much the same way as their normal-hearing peers, they will also be able to respond naturally and participate actively.



Kids want to keep up

Children invest enormous effort in trying to follow and interpret what they hear. Thus the more protection we can offer from intermittent noise, the more energy they will have for keeping up.

As well as attenuating ongoing background noise to preserve the integrity of the speech signal, Amigo takes every opportunity to reduce noise during quieter periods.



No child should be left behind

Whenever the teacher stops talking the Silencer function in the Amigo receivers lowers the receiver noise by 8 dB, so the child doesn't get unnecessarily tired or distracted. During these 'breaks' the child will find it easier to communicate with their classmates. Naturally, the moment the teacher starts talking again, the Silencer immediately releases.





With Amigo receivers, the intelligent Silencer function lowers the noise by 8 dB.

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out of FM With some FM systems, teachers have to guess whether their students are getting the signal. With Amigo they just know.

Taking the guesswork

During lessons teachers prefer not to have to interrupt students to check whether the FM system is working. It slows things down and draws unwanted attention to the child with hearing instruments. Also, small children cannot be relied on to provide accurate feedback.

Instant confirmation for total confidence

The LED status indicators on Amigo T30/T31 transmitters and Amigo

receivers take the guesswork out of FM systems. The transmitter LED indicates whether the unit is turned on, whether it needs recharging, or whether it is in mute mode.

Teachers can also feel confident that the signal will remain stable: extremely robust transmission keeps the risk of drop-outs to an absolute minimum.



Inspiring

confidence



TWO little lights say it all

The transmitter LED indicates whether:

- The unit is on
- The battery needs charging • The unit is muted

The receiver LED indicates that:

- The receiver is on
- The transmitter and receiver are on the same channel
- The child is receiving stable FM input
- Battery supply OK



- used or in a default channel, to prevent accidental changes
- All of the receiver switches can be disabled if necessary



No child should be left behind

Bright and flexible receivers

- When using Amigo universal receivers (R1 or R2), the LED can be
- positioned so the light is visible from the back or the front.
- · Most Amigo receivers' LEDs can be programmed to shine constantly, blink every two seconds, or not light up at all
- Amigo receivers can be programmed to wake up in the last channel



The keypad switches can tolerate 1,000,000 presses and are sealed with silicone rubber for high moisture resistan<u>ce.</u>



The rigid center frame protects Amigo's internal components. The molded rubber exterior ensures a safe grip, yet absorbs impact if dropped.



The microphone jack can tolerate 10,000 insertions.



The durable LCD shield is made of shatter-proof polycarbonate.

Teachers want solutions they can trust

System breakdowns can be tough for both teachers and students. That's why Amigo is built to last.

Classroom environments are tough enough without teachers and audiologists having to spend precious time on troubleshooting. Demanding school settings are no match for Amigo. From the exterior casing to the internal components, Amigo is the toughest FM solution ever made.

Amigo is built to:

- Withstand accidental dropping
- Repel moisture
- Offer fail-safe recharging

Why Amigo is so dependable

Accident-proof

Amigo FM transmitters that accidentally hit the floor are more than capable of surviving. The ultrasonic welding and molded rubber case create an extremely robust unit that is highly resilient to everyday classroom and tear.

Moisture repellent

The transmitter can safely come in contact with anything from finger paint to water or hot coffee. Silicone-sealed buttons make it both moisture-resistant and easy to clean.

Fail-safe battery charging The Amigo T30/T31 uses a single rechargeable AA NiMH battery that can be exchanged with a standard alkaline battery whenever necessary.





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Meet the Amigo family

Amigo T31 transmitter



- Transmitter and programmer in one
- Fitting range ~ 1-20 inches
- Covers World Band FM: 169-177 MHz, 180-188 MHz and 216-218 MHz
- Bandwidth 8.5 kHz
- Digital Signal Processing

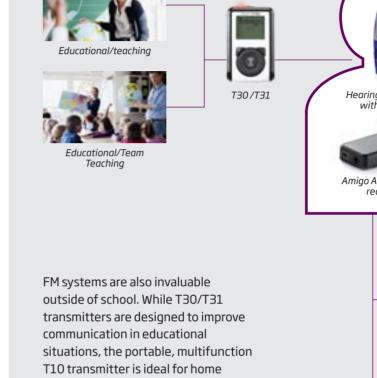
- External antenna built into microphone cord
- FM Channel Wizard
 - Monitor FM channels
 - Scan room for best FM channels
 - Team Teachina function

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- Software/channel updates via USB jack
- AA Standard NiMH batteries
- Fail safe charging sensor
- Keypad lock
- More than 10 hours of battery life
- One touch mute

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Everyday use of Amigo

Freedom to mix and match

Amigo solutions offer complete freedom to mix and match. FM receivers come in different styles - from clipon, ear-level receivers to the attractive, Amigo Arc neckloop receiver - to fit each child's individual needs.

Being compatible with virtually all manufacturers' BTE instruments, Amigo universal receivers are ideal for growing children who regularly upgrade their instruments. Amigo receivers also work with all Amigo transmitters – plus most other brands of transmitters - to make life in the classroom easier.

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The Amigo family

Oticon Amigo T30: Body worn transmitter for use in educational settings. The transmitter also serves as a programming and fitting unit.

Oticon Amigo T31: Same functions as T30 but also features 0 built-in Team Teaching.

> Oticon Amigo T10: Multi-purpose transmitter designed to be used inside the classroom and at home.

Oticon Amigo T5: Cost efficient educational transmitter.

Oticon Amigo WRP: Wireless Receiver Programmer used for wireless fitting of all Amigo receivers and offers FM channel wizard functionality for pro-active channel management.

Amigo eZync: Provides instant walk-by synchronization of Amigo receivers, removing the need for individual synchronization.

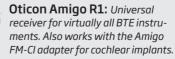
around the neck.



Oticon Amigo Arc: Universal Neckloop receiver for virtually all instruments with telecoil including cochlear implants. Comes in five colors

use or for leisure activities. It can be

handheld, placed on a table or worn



Oticon Amigo R2: Same functions as Amigo R1. Features a unique push button for on/off, and channel seek.

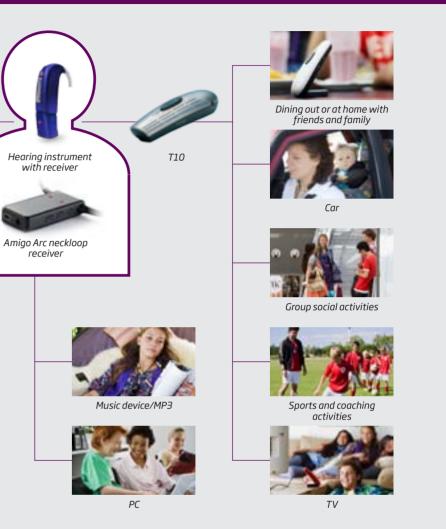
Oticon Amigo R2BA: Universal receiver for Oticon Medical Ponto bone-anchored sound processors. Offers the same functionality as the Amigo R2.

Oticon Amigo R5: Cost efficient body-worn receiver. Connect headphones, neckloop or DAI cable.

Oticon Amigo R7: Dedicated

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Oticon Amigo R12: Dedicated receiver for Oticon's BTE and RITE styles including all Oticon Safari models. Push button for on/off and channel seek. Comes in 13 colors to complement Oticon hearing instruments.



receiver for Sumo BTE styles. Offers the same functionality as the Amigo R2.



directional or boom

Microphones: Omni-directional,

Wearing options: Belt clip, waist strap.

Skins: 10 colorful skins for all Amigo transmitters and the Amigo R5 receiver.

to last

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No child should be left behind

Whether children wear hearing instruments, cochlear implants or bone-anchored devices, Amigo will be a trusty companion.

FM made friendly - for everyone!

When designing FM solutions we do our utmost to make sure that no child is left behind. Whether they wear hearing instruments, cochlear implants or bone anchored devices - or whether they have auditory processing difficulties and require extra support, they'll be able to benefit from Amigo solutions.

FM at school, at home - or anywhere else!

The benefits of FM don't end in the classroom. Portable solutions for outside of school are extremely easy for parents or other caregivers to use. In playgrounds, sports centers, buses or cars, these solutions provide consistent access to speech. So wherever children go, they won't feel left behind.



Supporting teachers and audiologists

By designing systems that are easy to use, easy to trust and easy to troubleshoot, Oticon strives to remove any obstacles that teachers might face when changing to a new solution. No matter which performance category they choose, Amigo will deliver day after day.

Educational materials, training and troubleshooting are also on our list of deliverables. We even offer extended service plans designed to meet the

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diverse needs of large and small school systems, mainstream and self contained classrooms, and children of all ages.

All to help audiologists and teachers succeed in their daily efforts to help children cope with real life. With our combined efforts, children with hearing loss and auditory processing disorders have every chance of realizing their true potential!

child friendly hearing care

It takes a truly dedicated approach to help children with hearing problems achieve their full potential. That's why we deliver the solutions and services that professionals and caregivers need to provide children the opportunities they deserve. This is what child-friendly hearing care is all about.



