FM for Real Life

child friendly hearing care

Oticon | Amigo

Oticon PEDIATRICS
Built to last
Inspiring confidence
Keeping it simple
Hearing more speech
No child should be left behind

Built to last
Inspiring confidence
Keeping it simple
Hearing more speech
No child should be left behind

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, learning and socializing.

We listen and respond
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, 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.

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.

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, learning and socializing.

We listen and respond
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, 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.

It’s all about...

FM made friendly

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 high-frequency 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.

FM made friendly

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 high-frequency 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.
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. Pre-programmed 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 flexible 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.
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.

The Amigo T30/T31 comes with a high quality omni-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.

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

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.

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.

References

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.

With a standard FM receiver, with Amigo receivers, the intelligent Silencer function lowers the noise by 8 dB.

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.

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.

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.

No child should be left behind

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.
Taking the guesswork out of FM

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

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.

**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

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

**Built to last**
Inspiring confidence
Keeping it simple
Hearing more speech
No child should be left behind

Built
Inspiring
Keeping it
Hearing more speech
No child should be left behind

Built
to last
Inspiring
Keeping it
Hearing more speech
No child should be left behind
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.
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 Teaching function
- Software/channel updates via USB jack
- "MiniB" USB charge jack
- Protective frame
- Navigation pads
- On/Off/Mute
- 2.5 mm microphone jack
- 3.5 mm auxiliary audio input jack
- Battery compartment 1-4 AA
- AA Standard NiMH batteries
- Fail safe charging sensor
- Keypad lock
- More than 10 hours of battery life
- One touch mute

Everyday use of Amigo

FM systems are also invaluable outside of school. While T30/T31 transmitters are designed to improve communication in educational situations, the portable, multifunction T10 transmitter is ideal for home use or for leisure activities. It can be handheld, placed on a table or worn around the neck.

Freedom to mix and match

Amigo solutions offer complete freedom to mix and match. FM receivers come in different styles – from clip-on, 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.

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 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.
- Oticon Amigo Arc: Universal Neckloop receiver for virtually all instruments with telecoil including cochlear implants. Comes in five colors.
- Oticon Amigo R5: Cost efficient body-worn receiver. Connect headphones, neckloop or DAI cable.
- Oticon Amigo R7: Dedicated receiver for Sumo BTE styles. Offers the same functionality as the Amigo R2.
- 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.
- Oticon Amigo R2BA: Universal receiver for Oticon Medical Ponto bone-anchored sound processors. Offers the same functionality as the Amigo R2.

Microphones: Omni-directional, directional or boom

Wearing options: Belt clip, wrist strap.

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

16

17
No child should be left behind

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

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 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!
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.