

### A professional FM system

The Amigo T20/T21 body-worn FM-transmitters are designed for use in classrooms. They also offer fitting and programming functions, thereby eliminating the need for any additional equipment.

### Certainty

Amigo transmitters and receivers provide instant confirmation that the FM-system is working. Synchronisation takes place wirelessly and can be seen very clearly, both on the transmitter and on the receiver.

### Durability

The T20/T21 are built to withstand rough handling in classrooms. From the exterior casing to the internal components, Amigo is the toughest FM solution ever made.

- Withstands accidental dropping
- Moisture repellent
- Fail-safe battery recharging

### Voice Priority

Amigo intelligently prioritizes voice over noise by:

- Reducing noise before transmitting to the child
- Balancing varying voice levels
- Compensating for different microphone placements
- Muting when the teacher isn't speaking

### Convenience

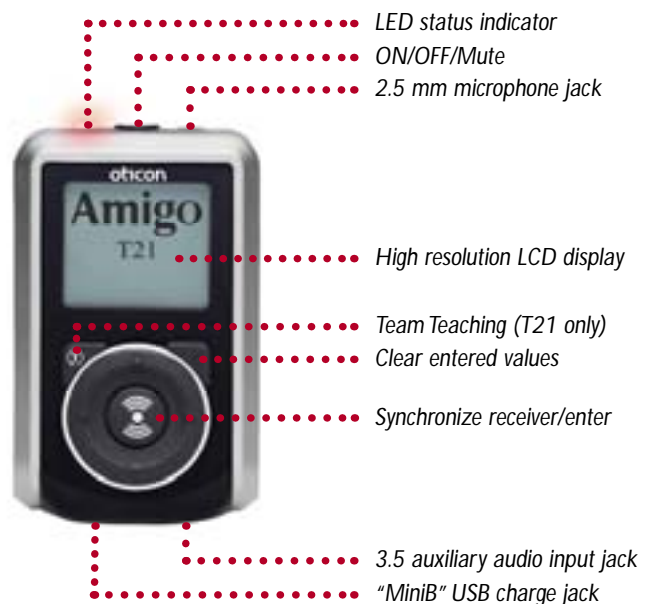
The T20/T21 transmitter also doubles as a programmer, allowing you to program and fit Amigo receivers wirelessly and "on-the-ear". The FM Channel Wizard assists by scanning the FM-environment and automatically finding channels that are interference free.

### User features

- Multi-channel
- Wireless synchronisation
- One touch mute
- Keypad lock
- One-touch Team teaching (T21)
- Auxiliary audio input
- Built-in antenna  
(no auxiliary antenna needed)

### Programming features

- Wireless programming of Amigo receivers
- Integrated programmer
- Programmable display name
- FM-Gain adjustment 0-30 dB
- Multiple languages
- Programmable Channel list
- FM Channel Wizard for proactive channel management

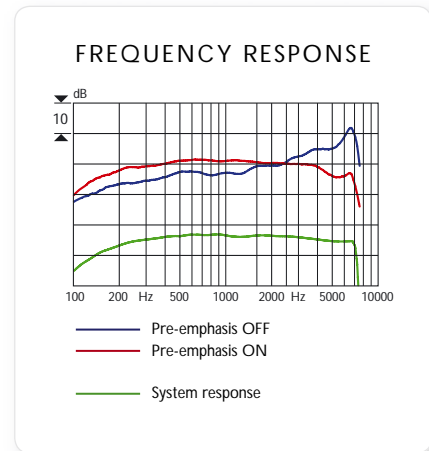


### Accessories

- AA NiMH battery (2500 mA)
- Audio cable
- USB AC/DC charger
- Earphones
- Omni-directional lapel microphone

### Optional accessories

- Directional microphone
- Boom mini microphone
- Lavalier microphone



### Technical data

#### Microphone and Transmitter

|   |   |
|---|---|
| Dimensions  | 81 x 51 x 30 mm   |
| Weight  | 117 g   |
| Power supply  | 1 NiMH chargeable battery AA or 1 disposable battery AA.  |
| Battery drain   | 180 mA when on  |
| Battery life  | 10 hours  |
| Charging time   | First time charging of a new battery is 14 hours.<br>Charge 10 hours for 10 hours of use.<br>Oticon recommends to change rechargeable batteries once a year, as the charge efficiency degrades over time. |
| Operating frequencies (country dependant)<br>One model covers all bands | 169.40-169.80 MHz<br>173.30-175.05 MHz<br>181.40-186.40 MHz<br>216.00-218.00 MHz  |
| Programming frequency   | 3.7 MHz   |
| Channel selection   | The T20/T21 have frequency synthesis. Press and hold either the ▲ button or the ▼ button for two seconds to select a channel from the predefined lists.   |
| Channel spacing   | 150 kHz   |
| RF output   | +4 dBm in 50 Ohm  |
| Type of modulation  | Analogue FM (narrowband), $\Delta f = 5$ kHz  |
| Antenna type  | The FM antenna is built into the microphone cord.   |
| Microphone sensitivity  | 10 mV @ 1 kHz for 100% modulation, $\Delta f = 5$ kHz   |
| Microphone power  | 1.5V, $R_L = 2$ k $\Omega$  |
| Pre-emphasis (can be disabled)  | 80 $\mu$ s time constant  |
| Colour  | The T20 and T21 are available in black with silver.<br>The WRP is available in yellow with black.   |
| Emissions   | T20 and T21 are in compliance with all relevant standards.  |
| Intended climate conditions   | 0-50° C   |
| FM range  | Up to 30 m (R1/R2)  |
| Audio bandwidth   | 100 Hz-7.5 kHz  |
| Programming range   | 50 cm (R1/R2)   |
| SNR   | 50 dB   |
| Distortion  | THD < 0.2 %   |