

description

LEXIS is a wireless FM personal communication system for use with BTE hearing instruments. During conversation, LEXIS helps overcome the listening challenges created by noise, distance, and echo. It also attaches easily to other sound sources (TV, stereo, computer, etc.).

application

The LEXIS system has two components: a hand-held transmitter/microphone and an ear-level FM receiver. The directional transmitter/microphone provides 8.5 AI-DI, when set in the superfocus mode, to enhance understanding in noisy and reverberant conditions. By using digital signal processing (DSP), it is able to focus in on the desired sound (e.g., speech). The ear-level receiver connects to most hearing instruments via an audio shoe. It works with most FM narrow-band transmitters operating on the same frequency and has a sensitivity control trimmer adjustable within ± 7 dB. While FM is in the OFF position it does not drain the battery, so the receiver can remain attached and ready to use.

specifications:
LEXIS™
wireless FM
communication
system

**transmitter/microphone****receiver**

dimensions (WXHxD)	125 x 20 x 35 mm/4.9 x 0.78 x 1.37 in
weight	75g
power supply	2 x 1.2V NiMH rechargeable batteries AAA 2 x 1.5V disposable Alkaline batteries AAA 6.5VDC charger 100 - 240V (60/50 Hz)
battery life	8+hrs (10 hrs with disposable AAA)
operating frequencies (model-dependent)	173, 183 and 216 MHz
maximum frequency deviation	5kHz
rf power output	5mW (216MHz); 2mW (173 & 183 MHz)
channel selection	unit preprogrammed selection by pen-push buttons
type of modulation	FM
processing	Digital Audio Processing
range	up to 10m/30ft with internal antenna up to 30m/100ft with external antenna
SNR*	>50dB
audio bandwidth	100Hz - 6.5kHz delivered from system to hearing instrument
minimum channel spacing	50kHz
external audio	input (mini-jack) 3.5mm stereo walkman type 200mV _{rms} max.
distortion	<1.5%

* 3kHz deviation at 1 kHz rate

dimensions (WXHxD)	15.2 x 12.4 x 11.3 mm/0.59 x 0.48 x 0.44 in
power supply	from hearing instrument battery
standby	no drain
battery current drain - on	2.0mA (1.2V)
battery current drain - off	no drain
operating frequencies (model-dependent)	173, 183 and 216 MHz
channel selection	fixed-crystal based
type of modulation	FM
antenna	internal antenna
HA power range	0.95 - 1.6V
audio bandwidth	100Hz - 6.5kHz delivered from system to hearing instrument
total harmonic distortion*	<1%
SNR*	>55dB
adjacent channel rejection	>45dB at 50kHz channel spacing

* Fully-quieted carrier, 3kHz deviation at 1 kHz rate

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microphone options



AT0655R
behind-the-neck microphone

accessories



650-02-100-03
lavalier cord



external antenna
389-02-100-08 (173MHz)
389-02-110-00 (183MHz)
389-02-120-02 (216MHz)



384-01-210-08
auxiliary input cable
(to connect to TV, VCR,
DVD, etc.)



384-01-220-00
auxiliary input cable
(to connect to portable
devices, i.e. computers)



895-06-500-05
belt case



890-60-010-04
transmitter/microphone
charger

user controls



off



omnimode



focus



superfocus