



operations manual



lexis
FM wireless
communication
system



LEXIS

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**This device may not interfere with TV
reception or Federal Government radar.**

your lexis FM wireless system

TRANSMITTER



RECEIVER



Your Lexis FM wireless system is designed to enhance your ability to enjoy improved speech understanding in most environments – even those with noise or reverberation, or at a distance from the speaker.

The Lexis receiver is connected through the use of a direct audio input (DAI) boot to your BTE instrument.



DAI BOOT

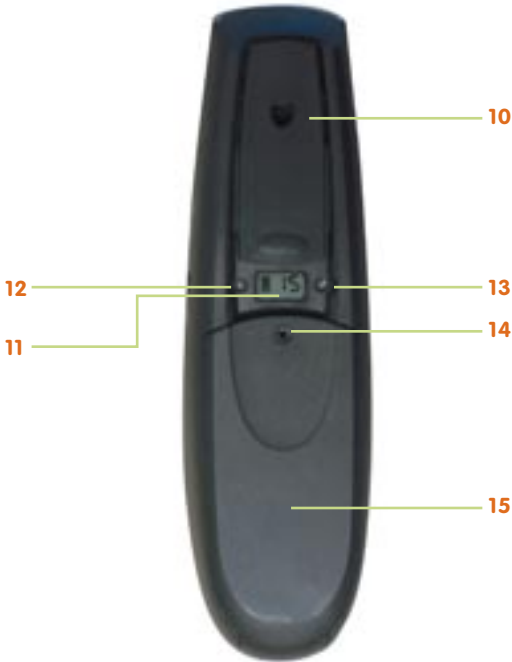
transmitter/microphone features



TOP

- 1 = MICROPHONE GRILLE**
- 2 = SUPERFOCUS MODE**
- 3 = FOCUS MODE**
- 4 = OMNI MODE**
- 5 = OFF**
- 6 = ON/OFF MODE SWITCH**
- 7 = CHARGE JACK**
- 8 = AUXILIARY AUDIO INPUT JACK**
- 9 = EXTERNAL ANTENNA JACK**

transmitter/microphone features



BOTTOM

- 10 = POCKET CLIP**
- 11 = BATTERY STATUS & CHANNEL DISPLAY**
- 12 = CHANNEL BUTTON**
- 13 = HI/LO LEVEL BUTTON**
- 14 = TAMPER RESISTANT SCREW**
- 15 = BATTERY CHAMBER & STAND**

receiver features



- 1 = INPUT PIN TO BE CONNECTED TO HEARING INSTRUMENT VIA DAI BOOT**
- 2 = FM GAIN CONTROL (PROFESSIONAL USE ONLY)**
- 3 = CHANNEL LABEL**
- 4 = PIN ORIENTATION LOCK;
BLUE = LEFT EAR, RED = RIGHT EAR,
GRAY = NEUTRAL**



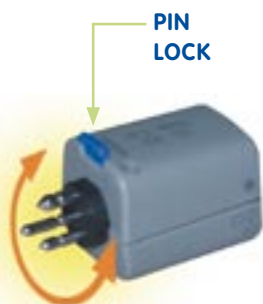
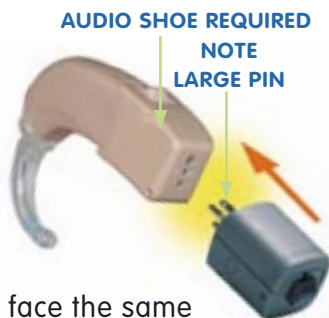
- 5 = MODE SWITCH**
- 6 = LEXIS ONLY**
- 7 = LEXIS + HEARING INSTRUMENT**
- 8 = HEARING INSTRUMENT ONLY**

connecting receiver to hearing aid

Attach your receiver to your hearing instrument via the DAI boot.

Important:




The Lexis logo is on the back of your receiver. The back of your receiver must face the same direction as the back of your hearing instrument, which has the user controls.



If pins don't align with holes

Pull up on pin lock but do not remove. Rotate pins to align with DAI boot holes while maintaining the appropriate orientation of Lexis to the hearing instrument. You can rotate the pins 270° in 90° increments. Push pin lock back in.

receiver settings

Noise	Group	Mode	Use
HIGH	SMALL		LEXIS ONLY
MEDIUM LOW	MEDIUM LARGE		LEXIS + HEARING INSTRUMENT
NONE	NONE		HEARING INSTRUMENT ONLY



LEXIS ONLY



LEXIS +
HEARING
INSTRUMENT



HEARING
INSTRUMENT
ONLY

Note: When not using the transmitter/microphone, switch the receiver to the hearing instrument only setting.

Each transmitter/
microphone can be
identified by its serial
number, located
under the battery
compartment/
table stand.

**BATTERY COMPARTMENT/
TABLE STAND**

000-00-000-00

**SERIAL
NUMBER**



Each receiver can be identified by its serial
number located on the front of the receiver
case next to the frequency band and
channel information.

batteries

Your Lexis transmitter/microphone uses 2 AAA rechargeable batteries. These will eventually need to be replaced – after about 1 year for rechargeable batteries, and after about 8 hours of use for alkaline batteries. Batteries can be replaced with any of the following:

- Special “short-sleeve” rechargeable batteries (available only from your hearing professional). Only these batteries can be charged inside your transmitter/microphone.
- Standard rechargeable NiMH batteries. These will NOT recharge inside your transmitter/microphone, but can be removed for charging.
- Standard non-rechargeable alkaline batteries (when you don’t have time to charge). Never recharge alkaline batteries.



Upon removal from your hearing instrument, dispose of spent battery cells immediately in the proper waste or recycling receptacle.

When battery levels are too low, the Lexis transmitter will cycle on and off to give an audio indication of the low battery.



LOW BATTERY INDICATOR



Your receiver draws a small amount of power from the battery inside your hearing instrument. It does not require a separate battery.



DO NOT ATTEMPT TO OPEN THE RECEIVER CASE. DAMAGE WILL OCCUR.

replacing batteries

To remove the existing batteries, open the table stand and remove tamper resistant screws, if present. Squeeze and lift the battery compartment cover.

**TABLE STAND/
BATTERY
COMPARTMENT**



**TAMPER
RESISTANT
SCREWS**

Place the new or charged AAA batteries in the compartment as shown.



charging batteries







The rechargeable AAA batteries must be charged before initial use. **Please allow 15 hours to reach a full charge.** If necessary, attach the power plug appropriate for your electrical system into the charger. Plug the charger into a wall outlet and into the transmitter.

Begin charging by turning off the transmitter/microphone. The battery bars will scroll while charging and flash when fully charged. Only the special "short-sleeve" batteries will charge inside the transmitter/microphone.



using the lexis system

Listening environments change as you move from place to place – from home to school/work to restaurants and parties. The Lexis transmitter/microphone helps improve understanding in most environments by changing the switch setting and positioning of the transmitter.

Noise	Group	Mode	Use
HIGH	SMALL		SUPERFOCUS
MEDIUM	MEDIUM		FOCUS
LOW	LARGE		OMNI
NONE	NONE		OFF



These are suggested settings and positions for a variety of situations. It is important that you practice and modify these settings and positions of the transmitter as you become familiar operating your Lexis system.

Some of these situations may require use of the external antenna. The transmitter/microphone has a range of up to 10 m or 30 ft. The external antenna will extend the range up to 30 m/100 ft. For best results the antenna should hang straight down (do not coil).



**EXTERNAL
ANTENNA**





HAND HELD POINT AND LISTEN

- Parties
- Shopping
- Small group discussions

Hold and point toward sound source.



AROUND THE NECK

- Lectures
- Sports
- Parent/Partner communication
- School Classrooms
- Boom microphone



Snap on lavalier and adjust cord length.

ON THE TABLE

- Meetings
- Larger group discussions
- Restaurants

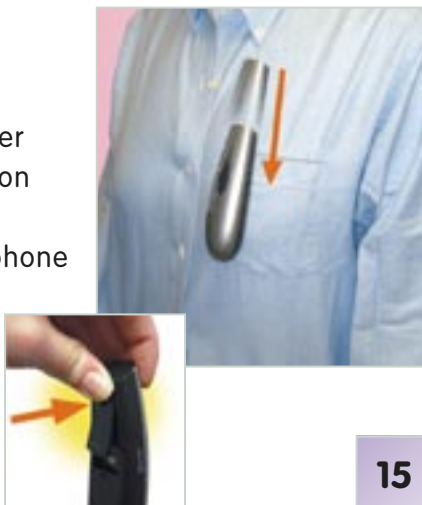
Flip down and adjust table stand.



CLIP POCKET

- Lectures
- Sports
- Parent/partner communication
- Car
- Boom microphone

Push clip and attach to clothing.



connecting a boom microphone



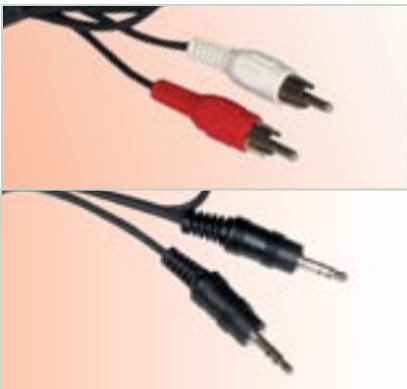
Attach the boom microphone via the auxiliary audio input jack and push the HI/LO button next to the LCD display with a pen to the HI level. The display will alternate between the channel number and "HI" when it is set to the high sensitivity (boom mic) level.

The transmitter/microphone must be in the Omni mode to use the boom microphone. To attach a boom microphone, switch the transmitter to the Omni mode.



To override the boom mic signal, switch to either Focus or Superfocus mode.

connect to TV, stereo & other devices



There are two auxiliary audio input cables provided with your Lexis system.

To attach the auxiliary audio input cables, plug the cable into

the transmitter/microphone and plug the opposite end into your audio source (TV, VCR, CD, etc.). Ensure the transmitter/microphone is operating in Omni mode and LO sensitivity mode. The display will only show the channel number when in the default LO sensitivity mode. If the display is alternating between the channel number and HI, push the HI/LO button, next to the LCD, with a pen to set to LO.

Use of the external antenna is recommended for optimum performance.



connect to tv, stereo & other devices

- If your transmitter/microphone is turned “off”, it will automatically turn “on” when you plug in the auxiliary audio input cable and a signal is present.
- If no auxiliary audio input signal is present for 5 minutes (e.g., if the TV is turned off), your transmitter/microphone will automatically shut off.
- To override the 5-minute auto shut off, unplug the auxiliary audio input cable and switch to Superfocus mode, then to Off.
- It is recommended that you use the TV Audio Out jacks (on the back of most TVs). If you use the Headphone jack, the TV speaker may turn off.

connect to TV, stereo & other devices

- You will hear only the auxiliary audio input signal when the transmitter/microphone is off.
- You will hear both the audio input signal and the Omni transmitter/microphone signal when the transmitter/microphone switch is in the Omni mode.
- You will hear only the microphone signal when the transmitter/microphone is in the Focus or Superfocus mode.

changing channels

Your Lexis system is a radio device, and like any other radio, it communicates on specific channels. Your transmitter/microphone and receiver must be on the same channel to work together.

If you want to use your transmitter/ microphone with a receiver on a different

channel, you may change the transmitter/ microphone channel by pushing the channel pen-push button next to the LCD display.



Never operate two transmitter/ microphones on the same channel at the same time; you will experience interference. You may operate two or more receivers on the same channel at the same time without experiencing interference.

Each country regulates the frequency bands and channels on which wireless assisted listening devices may operate within its borders. Your current Lexis system's band or channel may or may not be acceptable for use in a foreign country. Whenever you travel outside of your home country, confirm in advance that use of your system's band and channel is permitted in the destination country.

A list of currently approved frequencies in various countries is available at <http://www.lexisfm.com>. If you have questions about purchasing a Lexis system on a different band or channel, contact your hearing professional.

Charging your Lexis for international use may require the appropriate power plug adapter. Lexis comes standard with the appropriate power plug adapter for the user's country – other types are available as an option and do not come standard. Follow the instructions on page 11 using the specific power adapter for the country of intended use.

cleaning and care

Proper care and maintenance can help ensure trouble-free operation. This includes daily cleaning on your part with a soft damp cloth. Do not use solvents or chemicals.

When not in use, remove the batteries, store the Lexis in the case provided and keep in a safe place, away from pets and children. Keep away from excessive heat and direct sunlight. Never allow liquids to come in contact with the instrument.

If, for any reason, the instrument fails, do not attempt to fix it yourself. This could void the warranty and cause extensive damage. Should your Lexis fail or perform unsatisfactorily, check the troubleshooting guide on the next pages for possible solutions. If the problem persists, contact your hearing professional for assistance and service.

No Sound/FM reception

- Check to make sure the hearing instrument is functioning
- Check that receiver mode switch is in correct position
- Check that transmitter/microphone is turned on
- Check that receiver and transmitter/microphone channels match
- Recharge or replace batteries
- Adjust FM gain control (consult your hearing care professional for gain control adjustment)
- Confirm that the audio boot is compatible, is properly seated and undamaged (contact your hearing care professional for compatibility information)

Weak or distorted sound

- Check for improperly fitting or clogged earmolds, or excess earwax
- Recharge or replace batteries
- Adjust FM gain control (consult your hearing care professional for gain control adjustment)

troubleshooting guide

- Make sure the external antenna is connected and unwound

Static, intermittent sound, or feedback

- Move away from sources of interference (metal structures, computers, etc.)
- Make sure that no other transmitter is transmitting on the same channel
- Clean and check battery contacts
- Check for improperly fitting or clogged earmolds, or excess ear wax
- Turn down FM gain control (consult your hearing care professional for gain control adjustment)

Transmitter/microphone batteries will not charge

- LCD battery icon will flash if there is a problem with charging
- Check that batteries are special “short-sleeve” batteries – all other batteries cannot be charged while in your Lexis transmitter/microphone
- Check that charger is plugged into a working wall socket and clean charge jack

LCD error codes

- E2 – LCD communication error – contact your hearing care professional for help
- E1 – RF fault – contact your hearing care professional for help

Omni mode does not work

- Check the LCD panel – if the panel is flashing “HI”, then your transmitter/microphone is set to HI (or boom mic level). Ensure transmitter/microphone is set to Omni mode, and push the HI/LO button to reset the mic to LO mode (see page 16)

Very noisy sound when plugged into TV, stereo or other device

- If you experience a noisy signal when connecting the transmitter/microphone to TV, stereo, etc., check the LCD panel – if the panel is flashing “HI”, then your transmitter/microphone is set to HI (or boom mic) level. Ensure transmitter/microphone is set to Omni mode, and push the HI/LO button to reset the mic to LO mode (see page 16)

Very high noisy sound

- When the transmitter/microphone is off and the receiver is still on, a high noisy sound can come from the receiver when the hearing instrument is subjected to loud sound levels and/or the hearing instrument battery level is low. Switch the receiver to hearing instrument only and/or change the hearing instrument battery.

- Supervise small children to avoid swallowing or choking on parts
- Do not operate two transmitter/microphones on the same channel (causes interference)
- Do not use on aircraft without permission of flight crew
- Some electronic devices (microwave ovens, computers, and fluorescent lights, for example) can interfere with your Lexis signal
- Do not immerse Lexis units in water or other liquids

code of federal regulations

Lexis FM receivers and FM transmitters, when required, are approved by the Federal Communications Commission in the U.S. and Industry Canada. Other government approvals available upon request. (Other international regulations may also apply.)

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.

Any change or modifications made, to any government approved element of this instrument, without the expressed approval of the manufacturer in writing, could void the user's authority to operate those elements of the system.

If any changes or modifications are made it will be in the responsibility of the party performing the changes or modifications to ensure continued compliance with the FCC regulations and they are required to: (1) File for a new equipment authorization, or (2) Relabel the product(s) with "This product has been modified by [insert name, address and telephone number of the party performing the modification]".

PART 95

This transmitter is authorized by rule under the Low Power Radio Service (47 C.F.R. Part 95) and must not cause harmful interference to TV or United States Navy SPASUR installations. You do not need an FCC license to operate this transmitter. This transmitter may only be used to provide: auditory assistance to persons with disabilities; persons who require language translation; or persons in educational settings; health care services to the ill; law enforcement tracking services under agreement with a law enforcement agency; or automated maritime telecommunications system (AMTS) network control communications. Two-way voice communications and all other types of uses not mentioned above are expressly prohibited.

IMPORTANT NOTE: To comply with FCC RF exposure compliance requirements, only use supplied antenna that is sold with this transmitter. Use of any other antenna which has not been approved by the manufacturer will violate FCC rules and regulation and void the user's authority to operate this device. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

LEXIS

