

# fmGenie Fast Track Guide for use with cochlear implants



This *Fast Track Guide* takes you through the basic steps required to get your fmGenie working with Cochlear Implant Processors.

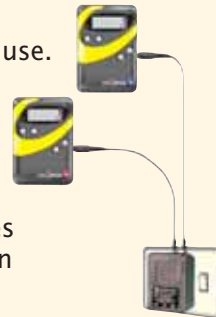
## Part 1 Batteries

The fmGenie uses standard size AA batteries. Rechargeable batteries are the recommended option and, once fitted, are charged 'in situ' – just like a mobile phone.

### Rechargeable batteries – nickel metal hydride (NiMH)

New rechargeable batteries require charging before use.

- 1 To fit the batteries, slide open the battery cover and insert as shown. The technique is a combination of 'squeeze, thumb and wiggle' – you won't break it and the firm fit stops the battery cover accidentally falling off.
- 2 Do NOT turn on the fmGenie.
- 3 Plug the twin tail charger into the socket marked 'Chg' and turn on charger – rolling battery bars should be visible on the right of the status display.
- 4 The equipment will be given an initial 4 hour charge – enough for a few days' use.
- 5 When the display goes blank, fmGenie is ready for use.



After this initial charge, your fmGenie will automatically take either a full or top up charge as required.

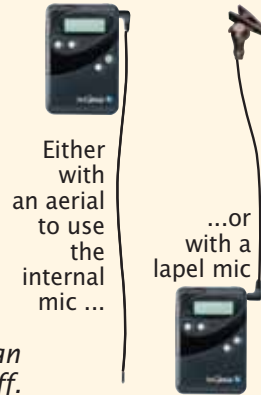
### Alkaline batteries

The fmGenie can also be used with alkaline AA batteries – which can be useful in an emergency – you could even borrow some from your TV remote controls!

The performance is the same whatever type of AA battery is used.

### Part 2a Turning on

- 1 Connect either an aerial or lapel microphone into the fmGenie transmitter external microphone socket (Ext mic).
- 2 Turn on both the transmitter and receiver by pressing and holding the ON/OFF button until the display turns on and the alert indicator flashes.



*It is time rather than pressure which turns on an fmGenie – to prevent accidental switching on/off.*

- 3 Check that both units are showing the same channel number. If they are not, you will need to match the channels, see pages 10 and 11.



For use with a cochlear implant, we recommend that the transmitter is set to long range (LR) in the battery compartment settings.



Pages 48 and 90 – User Guide (3rd Edition)

### Part 2b Using test headphones to check the fmGenie system

**Cochlear implant users setting up an fmGenie for themselves should skip this section and move on to Part 3.**

- 1 Check that 'HI' audio output is selected on the receiver by checking the display.  
If is not shown, you will need to refer to page 4 and set 'HI' rather than 'LO' .



See opposite or Page 95 – User Guide (3rd Edition)

- 2 Give the fmGenie transmitter to a colleague and ask them to walk to the other side of the room while talking into the microphone at 150mm (the length of a biro) from the mouth.
- 3 Plug the test headphones into the fmGenie receiver audio output socket (Audio out).
- 4 Using the test headphones, listen to the fmGenie receiver adjusting the Tx volume to a comfortable level.



Assuming you are able to hear your colleague talking, well done – you are halfway to a fully working system. The next step is to get the implant processor working with the fmGenie receiver.



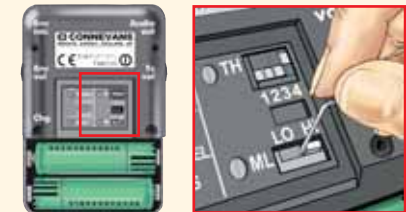
### Part 3 – Using an fmGenie receiver with a cochlear implant processor



Each type of processor requires a specific lead and sometimes an adaptor. Your processor instruction guide should tell you the processor settings to use.

Please refer any processor questions to your Cochlear Implant Centre.

- 1 Ensure that the 'Tx vol' volume is at minimum.
- 2 Make sure that you select 'HI' audio output in the battery compartment by sliding the switch to the right – this is important for the correct level of signal for the processor. The symbol will then show on the status display.



Page 95 – User Guide (3rd Edition)


3 The CI user should listen at arms length to somebody talking, to establish the level of sound from the cochlear implant alone. Page 5 explains further as to why we do this.





4 Plug the direct input lead into the 'Audio out' socket and connect to the processor using an adaptor if required. It may be necessary to temporarily remove the processor to do this.



5 Make sure that both units are turned on.

6 The CI user should take the receiver  and can now refit their processor and coil.

7 The helper should take the fmGenie transmitter  and walk to the other side of the room while talking into the microphone at 150mm (the length of a biro) from the mouth.

8 The CI user should be able to hear the helper through the fmGenie, adjusting the receiver  Tx volume control to a suitable level as required.



It may be necessary to repeat steps 3 – 8.

It is important not to overload the input of the processor by turning the output of the receiver too high as this will result in poor sound quality by over activating the compression circuit in the processor. It can also result in the user complaining of back ground noise when no-one is speaking into the transmitter. In the absence of a signal the compression circuit of the processor opens and amplifies the back ground noise which would otherwise be negligible.

### fmGenie user features

This generic fast track guide is designed to get you started with your new fmGenie quickly and easily. To help achieve this, your fmGenie has been factory set for single channel operation with some user features disabled.

The available features are all explained in section 4 of the main fmGenie User Guide & Reference Manual and, when you have chosen the features you wish to use, appendices 1-3 will explain how to access them.

### Part 4 – Setting the volume

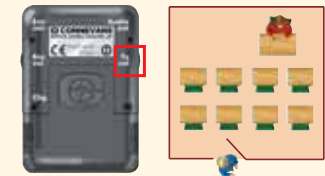
In an ideal world, setting volume controls would be done with the help of an audiologist, however it is also possible for a good listener to set their own listening preference.

*Very simply, the sound heard at a distance through the fmGenie should be similar to, or slightly louder than, the sound heard from the Cochlear Implant on its own at close range in a quiet room.*



**Volume controls** The volume can be set by a comparison method.

- 1 Initially establish a satisfactory listening level with the Cochlear Implant(s) alone, at arm's length from somebody talking to you.
- 2 Turn on the fmGenie system, give the transmitter to your helper and ask them to walk away whilst talking.






- 3 You should now listen to the Cochlear Implant but this time through the fmGenie receiver without changing the processor sensitivity controls.



Adjust the transmitter volume control (Tx vol) to match, or be slightly louder than, the original listening level through the processor alone.

**Tone controls** Setting the tone controls is straightforward but rarely need adjusting at this stage. See page 91 of the User Guide (3rd Ed).

### Transmitter microphone muting (Default setting: enabled)

The microphone mute is a useful facility for making discreet aside comments without being overheard or for use when the tutor is talking to people other than the fmGenie user.

If there is no flashing , a short press of the  star function  button will mute the transmitter microphone – as long as the facility has not been disabled.

If the feature is active the alert indicator and microphone mute  symbol will flash (as a reminder that users cannot hear you). Another press of the  button returns to normal.



## Putting an fmGenie system together

Please refer to the Instruction Booklet for full information, however the following illustrations will give you a quick guide to 'what goes where'.

### Using fmGenie Transmitter with integral microphone



fmGenie Transmitter  
Part No. FMG110

fmGenie aerial supplied with transmitter, fits into external microphone socket (Ext Mic)

Page 34 - User Guide (3rd Edition)

### Lapel microphone

The microphone pack (Part no. FMG213M6) contains 3 items; a microphone head, 600mm lead and lapel clip.

The microphone head plugs directly into the lead with a push on fitting.



Black stub microphone head  
Part No. FMG211

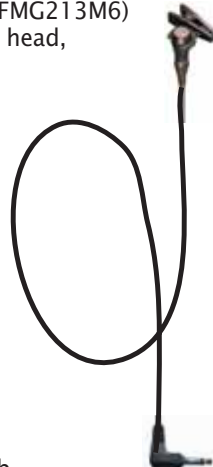


Lapel clip for black stub mic head  
Part No. FMG212



fmGenie stub microphone 600mm lead  
Part No. FMG21M600

Page 20 - User Guide (3rd Edition)



### Using fmGenie Transmitter with lapel microphone

fmGenie Transmitter with lapel mic



Sound input

Page 34 - User Guide (3rd Edition)

### Wearing the fmGenie transmitter

Tx with pouch  
Tx with pouch & modular waist harness  
Tx with neck pouch  
Tx with hip pouch



Pages 22-25 - User Guide (3rd Ed.) and Connevens Catalogue - section 1

### Using an fmGenie Transmitter with conference microphone



Tx and conference microphone in centre of table



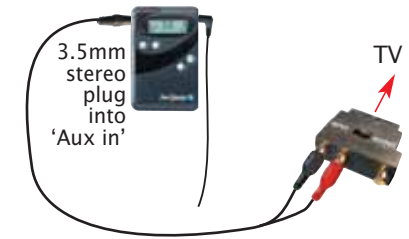
Conference mic plugged into receiver, presenter wearing transmitter



Pages 69-70 - User Guide (3rd Edition)

### Connecting an fmGenie transmitter to a TV

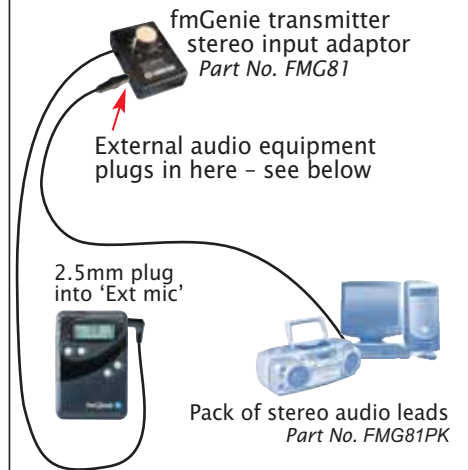
An fmGenie can be directly connected to a TV SCART socket



SCART plug to phono sockets  
Part Nos \*A121BA\* and \*T114\*

### Connecting an fmGenie Tx or Rx to external equipment

A transmitter input adaptor allows you to connect an fmGenie Tx (or Rx) to other equipment such as hi-fi or computer



Pages 66-68 - User Guide (3rd Ed.) and Connevens Catalogue sections 1 & 11

**Wearing the fmGenie Receiver**

Pages 24-25 - User Guide (3rd Edition) and Connevans Catalogue - section 1 fmGenie

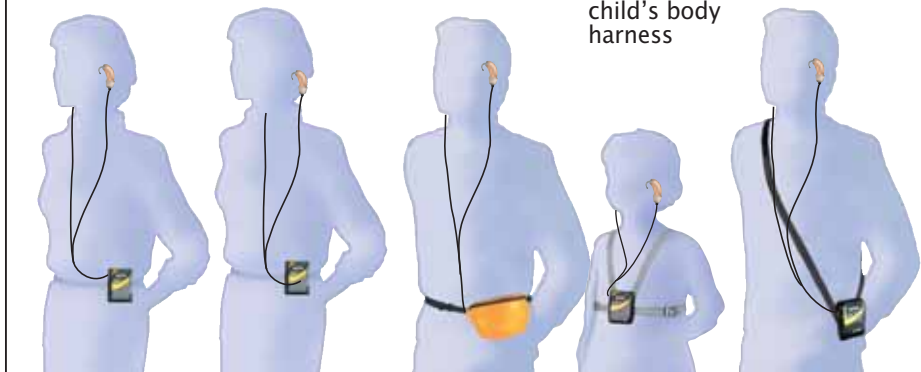
Rx with belt pouch on wearer's own belt

Rx with belt pouch & modular waist harness

Rx with bum bag - two styles available

Rx with hip pouch

Rx with child's body harness



Notes

**Tips for maintaining radio system reliability**

Don't scrunch or wind up your leads when not in use - they will break more quickly.



Daily testing should cover the overall system and should include the processor and leads. It is not necessary to change the HI/LO switch in the battery compartment during routine testing.

Save time by not unplugging leads more often than really necessary, leave them connected - this helps reliability too.



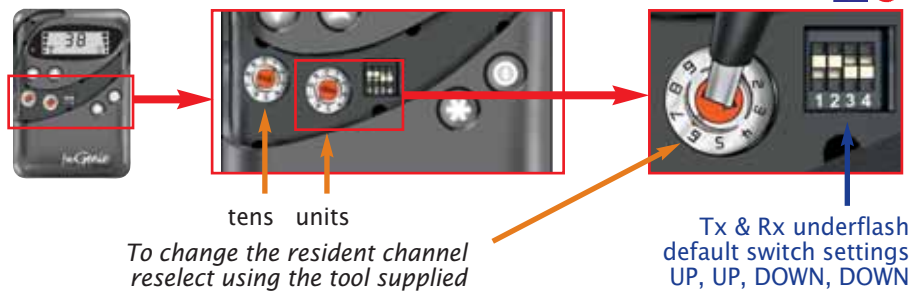
### fmGenie user facility settings

The fmGenie default settings can be easily changed – the 3rd edition of the fmGenie User Guide & Reference Manual has a lot of improved and clearer information including clear diagrams for activating or changing fmGenie features. Turn off fmGenie when making changes to settings.

Connevans tip: we advise using the bent out end of a paperclip to change switch settings; we can sell you a magnifying glass too, if you need one!



#### Default channel setting – Tx & Rx



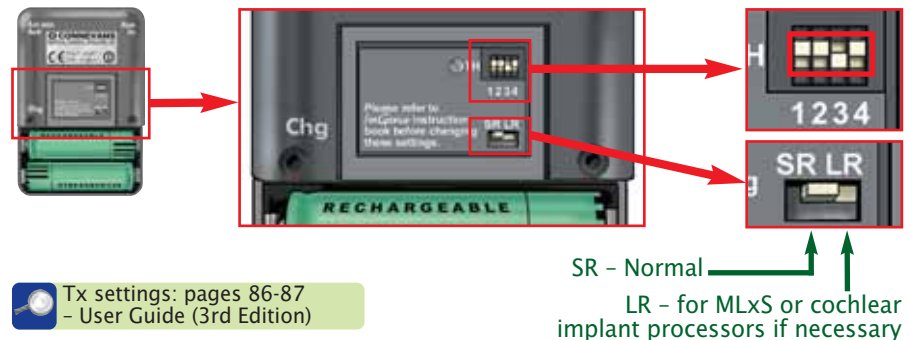
Normally the default channel should be set as the users own channel, matching the default channel on the receiver. We also advise that the transmitter channel should be left fixed – it is the receiver channel which usually needs to be changeable.

Be relaxed about changing channel, if an invalid channel is chosen by mistake the display will show an 'E1' error message to alert you.

Channel settings: page 84 and Error messages: page 98 – User Guide (3rd Edition)

#### Tx underflash switch settings – Default UP, UP, DOWN, DOWN

#### Tx rear battery compartment switch settings – Default UP, UP, DOWN, UP



#### Rx underflash switch settings



To enable the channel changing facility on the Rx, move switch 3 UP.

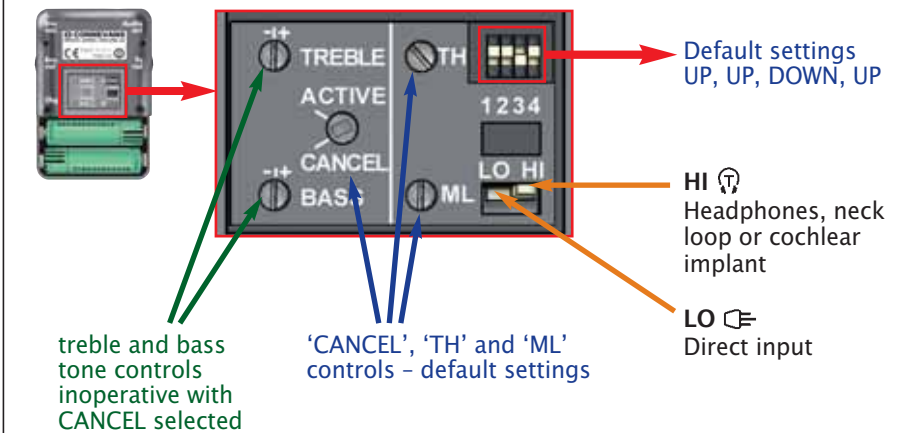
To minimise 'fiddling', channel changing on a receiver is only available for the first minute after turning on – indicated by a flashing Δ.

To enable the manual hearing aid microphone muting facility on the Rx, move switch 4 UP – please note that this feature may not operate with some digital hearing aids.

In use, a press of the Rx button mutes the hearing aid microphone and another press makes it live.

Connevans tip: The initial channel change period – shown by a flashing Δ – can be truncated by a short press of the ON/OFF button.

#### Rx rear battery compartment switch settings



Rx management and user settings: pages 92-97 – User Guide (3rd Edition)

## Euro channel frequencies

From January 2004, all new radio aid equipment has to be supplied on the new 50KHz Euro channel frequencies.

ALL fmGenies ever made are able to use these frequencies, but from January 2004 all new fmGenies are supplied factory set to the new Euro frequency channels.

Older fmGenies can be reset to the new channels by setting the under flash switches 1 & 2 to UP/UP as shown.

If new fmGenies are being used in conjunction with other radio aid systems which cannot be changed over to the new frequencies, then the fmGenies should be reset to the 'traditional' frequencies.

To change to the 'traditional' frequency channels, set switches 1 & 2 to DOWN/DOWN.

**It is important that you only use one set of channel frequencies on any site.**

For more information see [www.connevans.com/fmGenie](http://www.connevans.com/fmGenie)



Under flash switches 1 and 2 - settings are the same for both Tx & Rx

**CONNEVANS ON CD** - the entire catalogue on CD plus lots of other useful information including Powerpoint presentations for fmGenie users.



Please ask Customer Services if you would like a free copy with your next order.

Order spares online at: [www.DeafEquipment.co.uk](http://www.DeafEquipment.co.uk)

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