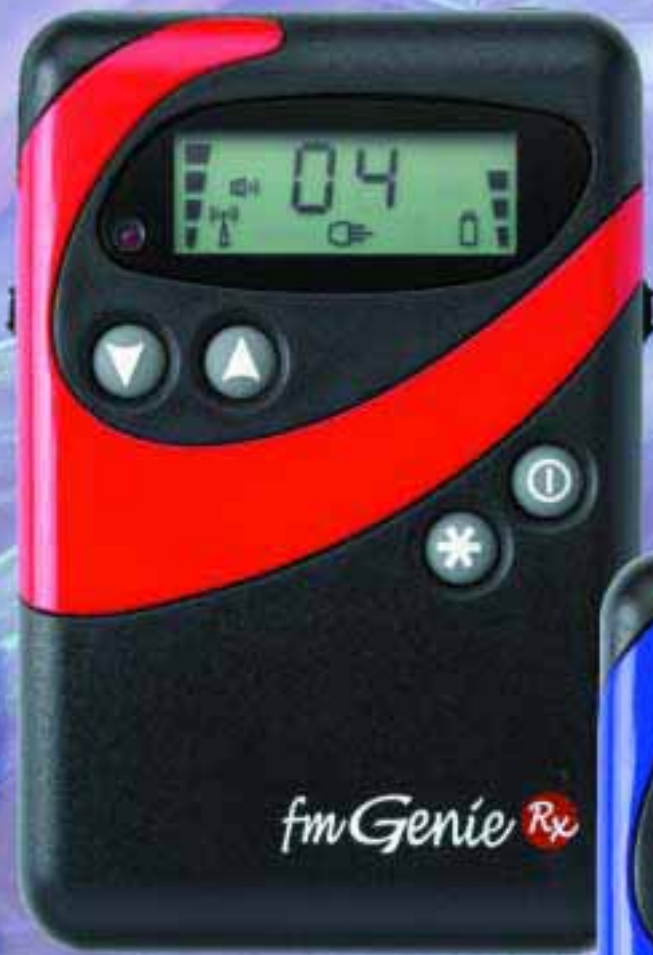


GO ONNNEVANS



Bring the magic of
sound to your ears

fmGenie

fmGenie – Communication for life

Connevans have harnessed the power of advanced digital microchip technology to bring you the next generation of multichannel radio system. The fmGenie combines innovative features with visual appeal and superb sound quality.

The fmGenie is an undoubted leader in the application of new sound technology for hearing impaired people.

Simplicity through technology

The fmGenie has an amazing and unrivalled array of features, all presented in a way that users will understand – simplicity through technology.

You are in control with the *fmGenie*

The range of features given to the user can be easily set. Taken to the extreme, once the controls are set to the user's requirements, all functions can be locked, leaving simply the on/off button working.

Information at a glance

The fmGenie continuously monitors itself, updates the status display and gives you confidence that all is well.



fmGenie - Advanced Sound Technology

Audio out 
TV level input 

Unique status display

Internal microphone 

LED alert indicator  

External microphone input  

Transmitter volume control 

Environmental microphone volume control 

Designer flash  

Plug-in charger input  

Multichannel select up/down  

Power on/off  

Star function control  



fmGenie - Information at a Glance

The status display gives a visual update on how the fmGenie is working. Providing information and reassurance to both the user and those working with them.

fm Signal strength  

On a transmitter 3 bars indicate that standard range is selected and 4 bars long range. On a receiver the display indicates the received fm signal strength.

Channel number  

Displays current channel in use.

Battery level  

Displays battery life remaining. Charging is indicated by a 'rolling' effect.

Triangle symbol  

Flashes during channel select period.

Circle symbol  

On a receiver this indicates that dynamic muting is available and on a transmitter that the test tone is on.

Sound symbol  

The speaker symbol shows when sound is passing through the system; very useful for routine monitoring and diagnostics.

Microphone mute  

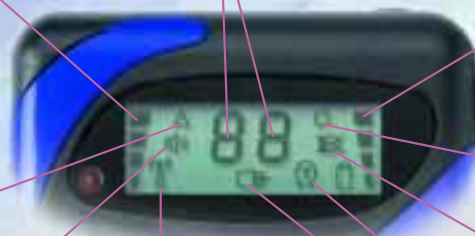
This symbol shows that the microphone is muted.

Aerial symbol  

Flashes on a transmitter if there is an aerial or microphone fault. On a receiver the symbol flashes when there is no fm signal.

Operating mode 

These symbols indicate the receiver output mode. Low level output for hearing aid direct input and high level output for headphones or neckloop.



fmGenie – Superb range of features and facilities that

Multichannel choice

Up & down buttons allow easy selection of radio channels. Pressing both together will select the chosen default channel. These controls are only operational for a short period after turning on to reduce the likelihood of 'fiddling'.

LED alert

The red LED alert indicator gives you a confidence wink when the fmGenie is switched on and will flash when acting as a warning indicator.

Designer flash

The flash, available in a wide choice of colours, is not just an important element of the visual design, it also conceals some of the system management settings.

TV sound input

On the fmGenie transmitter the 3.5mm socket can be used to connect directly to a TV SCART or similar signal level. The microphone normally remains live allowing talkover but can be muted if required.



Microphone options

The fmGenie transmitter may be used with any of the wide range of external microphone options or the internal microphone.

External microphones use a 2.5mm connection. This connection is also used for an aerial when using the internal microphone.

The fmGenie receiver also has an environmental microphone facility.

Audio output modes

The fmGenie receiver has two audio output modes; 'High level' for neck loop or headphones and 'Low level' for hearing aid direct

input. Connection is via a 3.5mm socket.

Volume controls

The fmGenie receiver has two thumbwheel volume controls, one for the transmitter and one for the environmental microphone – they can be locked as required.

fmGenie – User preference controls and system management

The user preference controls and system management settings are personal to the user and can be tailored to their individual preferences and hearing loss.

These settings would normally be chosen with the guidance of an audiologist and once set are unlikely to need changing.

The user preference controls are accessed by sliding open the battery compartment cover. The system management settings are hidden under the designer flash.

Feature selection

Channel change disable

The radio channel can be locked.

Default channel

Each unit can have its own default channel.

Treble boost/cut adjustment

(+/- 20dB @ 10KHz relative to level at 1KHz).

Bass boost/cut adjustment

(+/- 20dB @ 100Hz relative to level at 1KHz).

Tone adjustment cancel

This switch provides a flat frequency response.

AGC fast/slow

A choice of two AGC recovery speeds.

Dynamic mute enable

This control allows automatic environmental sound muting.

Manual mute enable

Allows manual control of the microphone.



are tailored to suit the needs of the user

Battery options

The fmGenie uses standard AA sized batteries. Rechargeable nickel metal hydride batteries give approx. 40 hours use and can be recharged safely 'in situ' using the intelligent internal charger or removed for external charging.

For those preferring non rechargeables, alkaline batteries give approximately 120 hours use.

Power

The ON/OFF button has a press and hold operation to prevent accidental switching.

The fmGenie will automatically detect when no sound is going through the system and turn itself off after an hour to save battery life.

Dynamic microphone muting

The fmGenie receiver has optional dynamic muting. When selected the dynamic muting facility will mute environmental sound pickup while the lecturer is speaking thus reducing the effect of ambient noise.

gement settings

Sound present threshold

This control provides adjustment for the dynamic muting and auto power off features.

Mute level balance

This control adjusts the volume of the transmitter during muting.

Standard/long range power output

This switch changes the transmitter range.

500 Hz test tone enable

A useful facility for fault finding.


High or Low level audio output

High level for headphone and neck loop.
Low level for hearing aid direct audio input – in order to offer direct input hearing aid microphone muting the fmGenie uses unattenuated direct input leads.

Autotune enable

When chosen, this facility allows a receiver to automatically tune to a transmitter.

Star function features

A number of special functions are accessed using the star button – .

Manual microphone muting – A press of the star function button will mute the microphone.

For the fmGenie receiver, the direct input hearing aid microphone or the fmGenie environmental microphone is muted.

For the fmGenie transmitter, its own microphone is muted; a very useful facility for use with TV's or when holding aside conversations.

The **Autotune facility** allows users to quickly and easily tune to the correct transmitter channel. When the fmGenie star button is pressed on both transmitter & receiver the receiver will automatically tune to the transmitter channel. This facility is disabled shortly after turning on.



fmGenie



fmGenie - Accessories



Wide range of microphone options



See through pouch with belt clip - choice of designer flashes



A full range of harnesses



System carrying cases



Direct input or neck loop



Headphones or earphones

The Connevans Catalogue and website feature the full range of fmGenie accessories.

Technical details

Overall system performance

Audio frequency response	Better than (\geq) 70 Hz to 11KHz (measured electrically to -3dB points)
Distortion	Typically 0.5% at 1 KHz (measured electrically)
Signal to noise ratio	Typically 55dB or EIN 28dB SPL (measured electrically)

General details

Size	88 x 59 x 25mm
Weight (approx.)	Rx 84g, Tx 74g excl. batteries 2 NiMH batteries 52g
Batteries	Two AA size Rechargeable Nickel Metal Hydride or Alkaline disposable
Battery life	NiMH rechargeable \approx 40 hours Alkaline \approx 120 hours
Battery charging	Intelligent internal or by automatic external charger

Recharge time	4-10 hours dependent upon residual charge
Channel frequencies	Any of the frequencies in the VHF band (173-175 MHz) specified for radio hearing aid use by the DTI; currently 22 in the UK. Maximum channel capability 100.
Transmitter output power	100 μ W - standard range 1mW - extended range
AGC threshold	83dB SPL with internal or lapel mic.
AGC recovery	Long (traditional) 2 secs, for use in noisy environments Short 26mS, for use with close talking & conference microphones
Audio output	High: 2 x 30mW into 32 Ω Low: 2 x 1mV into 2k Ω
RF sensitivity (measured via artificial antenna)	Typically 1 μ V for 28dB SINAD

The Connevans *fmGenie* has been type approved under the R&TTE Directive to European Telecommunication Standards ETS 300 422 & EMC standard ETS 300 445.

A fully detailed specification sheet is available on our website or from customer services.

Connevans reserve the right to alter specifications and/or appearance without notice.

The fmGenie is designed and manufactured by Connevans in England.



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