

Please read this carefully  
before using your AdaptEar™

Operating Instructions

AdaptEar™  
with LimitEar™ Technology



### Setting Sensitivity\*

Before using your AdaptEar™ it is important to set the unit's sensitivity to the correct level to match your earpieces to the PMR. The potential for hearing to be damaged comes from both the exposure intensity and exposure duration. Listening at higher levels reduces the safe listening duration, which is normally considered as exposure during any 24 hour period.

The tables show sensitivity switch settings for specific earpiece sensitivities and are arranged by impedance and exposure duration. The sensitivity of earpieces is a measure of the audio level produced for a given signal input level. This is usually specified in units of dB/mW, but sometimes as units of dB/V.

**Table 1** must be used where units are dB/mW.

**Table 2** must be used where units are dB/V.

Impedance is normally 16 or 32 ohms, although other earpiece impedances are available. Only 16 and 32 ohms are covered in these tables. LimitEar Limited cannot accept responsibility for other manufacturers information.

### To Set Sensitivity:

- 1) Having established the units of sensitivity for your earpieces (dB/mW or dB/V), select table 1 or 2.
- 2) Select the row in the selected table for your earpieces impedance and the expected duration.
- 3) In the selected row find the nearest value to your earpieces sensitivity; the letter at the top of the column is the setting required.
- 4) Using a 5mm flat bladed screwdriver, align the sensitivity switch with the setting letter.

Table 1 dB/mW

Impedance	Duration	A	B	C	D	E	F
32R	8 hrs	117	113	109	105	101	97
32R	4 hrs	120	116	112	108	104	100
32R	2 hrs	123	119	115	111	107	103
16R	8 hrs	116	112	108	104	100	96
16R	4 hrs	119	115	111	107	103	99
16R	2 hrs	122	118	114	110	106	102

Table 2 dB/V

Impedance	Duration	A	B	C	D	E	F
32R	8 hrs	132	128	124	120	116	112
32R	4 hrs	135	131	127	123	119	115
32R	2 hrs	138	134	130	126	122	118
16R	8 hrs	134	130	126	122	118	114
16R	4 hrs	137	133	129	125	121	117
16R	2 hrs	140	136	132	128	124	120

### Operational Notes

It is normal for the red limit light to flash briefly when the sound source produces momentary loud noises, as this indicates that AdaptEar™ is helping to protect your hearing. If you notice that the red limit light is illuminating frequently then it is indicating that the input level to the AdaptEar™ is too high and you should turn down the volume on the source device.

If you find that you are having difficulty hearing the sound from your earpieces at the controlled level, then you need to improve your isolation from the ambient noise, either by moving further away from it, or by using custom earpieces that block your hearing canal. If you are only using one earpiece you will find that putting in another earpiece, wearing an earplug or a custom fitted hearing attenuator in the other ear will improve your ability to hear considerably.



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Made in U.K.

## AdaptEar™

Thank you for purchasing an AdaptEar™, with LimitEar™ technology, an adapter to help you safely use a private mobile radio (PMR) with a variety of sensitive earpieces.

### Compatibility\*

- AdaptEar™ is supplied with a standard adapter cable with a 3.5mm mono jack plug designed for listen only operation with a wide range of PMRs. Please note that some PMRs will require a specific adapter plug or cable.
- AdaptEar™ may not function with some automatic noise cancelling earpieces.

### Use with Speaker-Microphones\*

- Fist microphones can be used with AdaptEar™ and most PMRs, but will require an optional adapter lead.

### Using AdaptEar™\*

**Before use** it is important to set the AdaptEar™ to suit the sensitivity of your earpieces. Refer to **Setting Sensitivity**.

- For listen only operation, connect the AdaptEar™ adapter curly cable's 3.5mm jack plug to your PMR audio output. Plug the adapter cable miniDIN plug into the **Adapter** socket, aligning its flat with the back of the AdaptEar™ case.
- Connect your earpieces to the **Phones** socket.
- To remove adapter lead, pull on case of plug - **Do Not** pull on the lead.
- You may also connect a second source, such as another PMR or MP3 player, to the **AUX IN** socket for simultaneous listening. Using the source volume control, it will mix at an attenuated level with the primary source. This is a 3.5mm 4-pole jack, allowing some MP3 players\* to work with their compatible earpieces and remote control facilities.

### Warnings\*

#### You are advised:

- Only use your AdaptEar™ when it's sensitivity has been set to match your particular earpieces.
- Do not adjust the sensitivity of your AdaptEar™ whilst wearing your earpieces.
- The table settings establish the general sound level for typical audio content; we recommend you avoid prolonged exposure to atypical content such as test tones.

\* For more information about compatibility of AdaptEar™ with PMRs, earpieces, speaker-microphones and MP3 Players or performance and settings, please consult your dealer or visit [www.limitear.com](http://www.limitear.com).

