

Technical Specifications

Transmission Mode	:	Ch1= 863.8MHz, Ch2=863.4MHz, Ch3=864.2
UK	:	Ch1= 916.0MHz, Ch2=916.5MHz, Ch3=917.0
USA/Canada	:	Ch1= 864.5MHz, Ch2=865.0MHz, Ch3=865.5
New Zealand	:	
Operating Voltage	:	12V DC 200mA, negative centre
Transmitter	:	3V DC (2 x size AAA 1.5V Ni-MH rechargeable batteries)
Receiver	:	
Frequency response	:	80 Hz - 15,000 Hz
Distortion	:	2%
S/N Ratio	:	>55dB (A)
Operating Distance	:	Free field approx. 30m, In door 12-15m (depending on environment)
Dimensions and weights	:	
Transmitter	:	154 x 35 x 90 mm 178gm
Receiver	:	100 x 60 x 35 mm 112gm (inc. batteries)

Hearing Products

International Limited

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Established 1992

We reserve the right to alter design and/or technical specifications & prices without prior notice.
E & O E

Revision 110404-1

PS1-OHE02-COM03

SENTON

CERTIFICATE

Conformity with European Telecommunication Standards
specified in Test Report No. 57101-2006/0-2/-3/-4/-5

EUT:	EchoFM
Description:	Wireless Speaker System
Applicant:	Hearing Products International Ltd.
Regulations:	EN 301 357-1 V1.2.1 (2001-06) EN 301 357-2 V1.2.1 (2001-06) EN 301 489-1 V1.2.1 (2000-08) EN 301 489-2 V1.1.1 (2000-09)

Test result:
The tested samples are in compliance with the EMC requirements/technical characteristics for radio equipment and systems based on the standard(s) mentioned above.
The appropriate test results are collected in test report no. 57101-2006/0-2/-3/-4/-5.
Regarding the Electromagnetic Compatibility (EMC) the following severity levels have been achieved:

RFI-Emissions:	Limit Class B according to EN 55022 Harmonic Current Emissions according to EN 61000-3-2:1995/0A/14:2000 Voltage Fluctuations and Flicker according to EN 61000-3-3:1995
Immunity:	RF Electromagnetic Field according to EN 61000-4-3:1996 80 MHz - 1000 MHz: 3 V/m, AM 80 %, 400 Hz Electrostatic Discharge according to EN 61000-4-2:1995 Air Discharge: 8 kV, Contact Discharge: 4 kV Electrical Fast Transients (Burst) according to EN 61000-4-4:1995 AC power: 2 kV, Signal/Control Ports: 1 kV RF Common Mode according to EN 61000-4-6:1996 150 kHz - 80 MHz: 3 V rms, AM 80 %, 400 Hz Voltage Dips and Interruptions according to EN 61000-4-11:1994 Reduction of 30 % of U _n for 10 ms, of 60 % of U _n for 100 ms, Voltage Interruption for 500 ms Surge, Common and Differential Mode according to EN 61000-4-5:1995 True Common Mode (line-to-ground): 1 kV Differential Mode (line-to-line): 0.5 kV

[Signature]
Johann Rindl
Senton GmbH
Date: 03 April 2001

[Logo]
DAB-Registration No. TT-7-G 002/94-40

SENTON GmbH - EMC Testcenter - Aussen Postfach 40 - D-94015 Straubing - Tel. 09421/55 22-0

EchoFM™ Wireless System

User Instructions



Hearing Products

International Limited

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Echo FM™ WIRELESS LISTENING SYSTEM

1. Introduction

Thank you for purchasing our product. This wireless microphone system operates in the UHF band frequencies shown in the Technical Specifications. Please Read this instruction manual carefully before operating the system. This manual covers the function and operation of the wireless microphone system.

2. Safety

- Do not spill liquid on the appliance and do not drop it on a hard concrete floor.
- Do not place the appliance near heat sources such as radiators, amplifier, etc. Do not expose it to direct sunlight, excessive dust, moisture or vibration.
- Do not cover the transmitter with items such as newspapers, table cloths, curtains or plastic bags.
- Remove the batteries from receiver if the appliance is not being used for a long period. This will avoid the damage resulting from a defective or leaking battery.

3. Environment

- Do not throw used batteries into a fire or garbage bin with domestic rubbish. Be sure to dispose of used batteries in accordance with local waste disposal rules.
- When disposing of the equipment, remove the batteries, separate the case, circuit boards and cables, and dispose of all components in accordance with local waste disposal rules.

FCC ID: RB5HE-03

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Complies with ETSI EN 301 489-9 V1.2.1

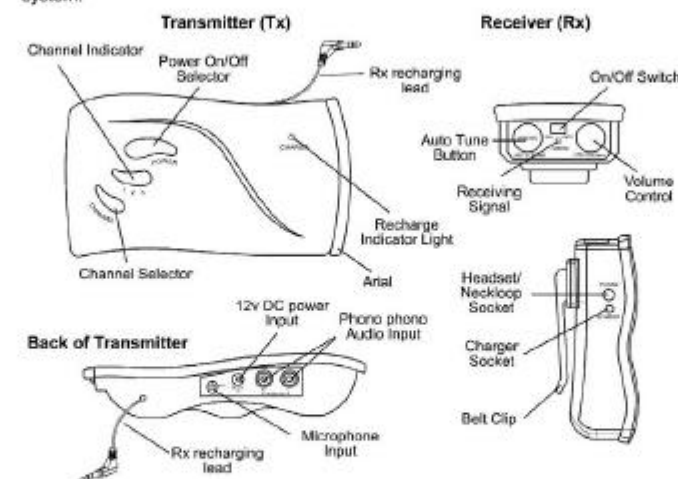
ElectroMagnetic compatibility and Radio spectrum Matters (ERM):

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services:

Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in ear monitoring devices.

Echo FM™ WIRELESS LISTENING SYSTEM

Congratulations! You have just purchased a most versatile and technically sophisticated EchoFM™ wireless listening system. This equipment will give you complete freedom to listen to your favourite TV/radio programmes, enjoy music or conversation, without irritating leads running across the floor. A microphone is also included to further enhance the flexibility of the system. Please read these instructions carefully as they will ensure that you get the most out of your new EchoFM™ system.



FEATURES

- Transmits audio signals from your TV/video/radio to your EchoFM™ receiver.
- Uses UHF radio waves to carry the audio signals, ensuring clear, sharp reception.
- 3 separate channels allow you to select the very best signal.
- Automatic Level Control (ALC) prevents overloading of the transmitter over a wide range of input signals.
- Mute function suppresses excessive noise when there is no input signal.
- Microphone can be used if your T.V. has no SCART or audio output socket.

WHAT IS INCLUDED

The set includes the following components:-

- 1 EchoFM™ transmitter
- 1 EchoFM™ receiver
- 1 Headset type 101 or Deluxe Neckloop type 111
- 1 microphone for TV speaker pick-up
- 1 lead (3.5mm male to phono/phono)
- 1 scart plug (audio out only).
- 1 lanyard for receiver
- 1 12V DC Power Adapter for the transmitter
- 1 Pack of AAA 1.5V Ni-MH rechargeable batteries for the receiver

OPERATION

- Connect the power lead to the transmitter and plug the 12V Power Adapter into the mains socket.
- When using the units for the first time, place the batteries in the receiver, as indicated on the unit and plug the Rx recharging lead from the transmitter into the receiver. Leave to charge for eight hours (or overnight). Unplug the receiver to use.
- Connect the audio source (TV etc.) to the line input sockets on the transmitter, using the appropriate combination of lead and scart plug and turn the audio source on. If the signal is not sufficient, then connect from the audio source directly into the microphone socket on the transmitter.
- Press the "Power On" button on the transmitter and the channel indicator light will show against channel 1, 2 or 3. You can select the "best" channel by pressing the Channel selector switch.
- Connect the headset to the receiver and switch on.
- Press the auto tune button until the green receiving signal becomes constant, indicating a strong signal.
- Turn the volume control on the receiver to a comfortable listening level (1, 2, 3, 4).
- If the signal is weak or you pick up a signal from another transmitter, press the channel selector on the transmitter to choose another channel.
- Press the auto tune button until the green receiving signal becomes constant again.
- When you finish using the unit or the signal starts to become weak, plug the receiver into the Rx recharging lead on the transmitter to recharge the batteries.

Microphone

If your T.V. doesn't have an audio output or scart socket you can use the microphone, which plugs into the transmitter 3.5mm jack socket, to pick up sounds from the T.V. speaker.

- Using the velcro pad fix the microphone at a distance of 30 cms. from the T.V. speaker with the sound set at a moderate level. The microphone is sensitive, so if you experience sound distortion in your receiver you should turn the TV's volume down, or move the microphone further away from the speaker, until you receive a clear sound signal.

NeckLoop

If your hearing aid has a 'T' switch, you can use our optional neck loop, type 111, with the receiver, instead of the headset. When using a neck loop ensure that your hearing aid is in the 'T' position and the neck loop is plugged into the receiver.