

## INTRODUCTION



Congratulation! You have just bought a most sophisticated, hightech RF-FM Wireless Stereo Headphone system. This system frees you from the tangle of headphone wires and lets you enjoy music without dragging a headphone cable behind you. To ensure the best performance of your system, please read this manual carefully.

## SPECIAL FEATURES

- Radio Frequency, emitting signals travel easily through walls and floors, delivering high-quality stereo sound to virtually anywhere in or around your home.
- Enabling you to enhance the convenience of your TV or audio sound sources. You can listen to your TV, CD or almost any sound sources as you move freely between rooms, exercise or do other activities.
- Headphone receiver can receive signals up to 40 meters away from transmitter omni-directional 360°.

## EXPLANATION OF CONTROLS

### HEADPHONE RECEIVER (FIG.1)

- 1) "LED" Power Indicator
- 2) Power Switch
- 3) Volume Control
- 4) Tuning
- 5) Charging Socket
- 6) Charging Battery Indicator

### TRANSMITTER (FIG.2)

- 7) Charging indicator
- 8) Power On Indicator
- 9) Send Channel (1 or 2)
- 10) DC Power Supply Socket
- 11) Charging cable socket
- 12) Stereo Input cable with 3.5mm

Accessories:      1 x adapter 12V-200mA  
                         1 x cable audio Y with plug 3.5mm  
                         1 x adapter 3.5mm/6.35mm jack

## INSTALLATION

1. Connect on the stereo signals to the Emitter with the adaptor cord as shown in figure 3.
2. Insert the supplied AC adaptor plug into the DC 12V input jack on the back of the Emitter. Then plug the adaptor module into a standard wall outlet.
3. Place two rechargeable batteries into the battery compartments of the Headphone as shown in figure 4. make sure the correct polarity is inserted.
4. Using the battery recharge cable to connect one side to headphone rechargeable cable jack ⑤ (Fig 1), the other side to the rechargeable cable jack of the transmitter ⑪ (Fig 2).



## OPERATION

1. Select the channel providing the best receiving quality (1 or 2).⑨
2. Turn on the POWER SWITCH ② of the Headphone and adjust the VOLUME CONTROL ③ to mid-position.
3. Adjust the TUNING ④ of the Headphone to receive the Transmitter signal for clear and loudest reception.

Hint: In case of a variable signal source, adjust the output to a comfortable level to avoid overloading and distortion.

## RECHARGING (BATTERIES NOT INCLUDED)

(Use only rechargeable LR03/AAA NiCd batteries.)

Note: Please ensure that the batteries are fully charged (for 16 hours) before using the FM headphone for the first time. This will guarantee a longer operating lifetime of the batteries.

1. Switch off the power of the headphone before charging.
2. Note: Before using the RF/FM headphone for the first time, please ensure that the batteries are fully charged (for 16 hours). This will guarantee a longer operating lifetime of the batteries.
3. Connect the recharge input on the headphone with the charge output on the transmitter via the recharge cable, see figure 3.
4. The charge indication LED on the headphone will light to indicate that the batteries are charging.
5. The batteries are fully charged after charging for at least 12 hours. Do not charge longer than 16 hours this will reduce battery performance.

## TECHNICAL DATA

Modulation system:	FSK (Modulation Index 0.5)
Transmission frequency:	2410 ~ 2473 MHz
Frequency range:	20 ~ 20000 Hz
Signal-to-noise ratio:	> 80 dB
Non-linear distortion factor:	< 0.5 % THD

Data subject to change without notice



## NOVELTY

### The 2.4 GHz Frequency Band Its characteristics and qualities

- a. The relevant system transmits audio signals in the 2.4 GHz frequency band, which is (essentially) less susceptible to interferences, than the 433 MHz or 863 MHz bands are.

Not less important is the possibility of the 2.4 GHz band to get protected from other signal sources interferences by changing the PLL (Phase-Lock-Loop), controlled frequency band to another channel. This should be done by simply sliding the band switch to another position on the transmitter and retune the signal on the receiver.

- b. The 2.4 GHz frequency being a "cleaner" band, is generating a superb sound quality: Its capacity and the relevant volume of traffic, combined with its density, provides an outstanding stable and clear sound image.

The technical characteristics/specs. of the 2.4-2.485 GHz frequency (for wireless connection use) is as follows:

#### Specifications

System	: Radio Frequency (RF)
Carrier frequency	: Tunable 2410~2473 MHz
Channel select (transmitter)	: Channel 1 - 8 2410~2473 MHz (Channel spacing 9 MHz)
Modulation	: FSK (Modulation Index 0.5)
Radiated output power	: EIRP +10 dBm
Effective transmission range	: 20~40 meter, omni directional (360°)
Input level	: $\leq 4$ Volt
Power supply - transmitter	: 12Volt / 200 mA DC
Power supply - receiver	: 2x R3 (AAA) batteries
Frequency range (headphone)	: 20~20000 Hz
Signal / Noise ratio	: >80 dB
Distortion	: <0.5% THD
Channel separation	: >80 dB



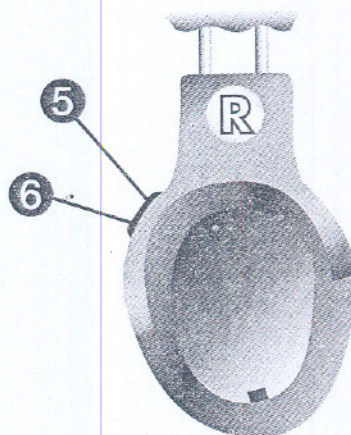
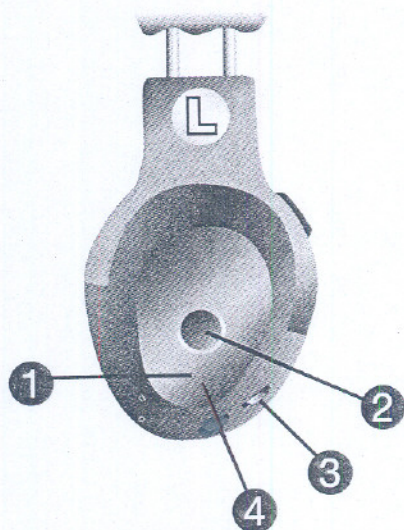
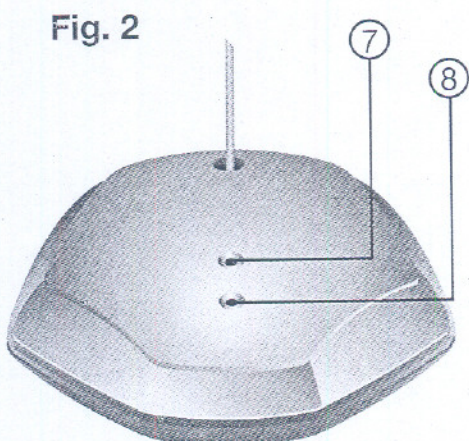
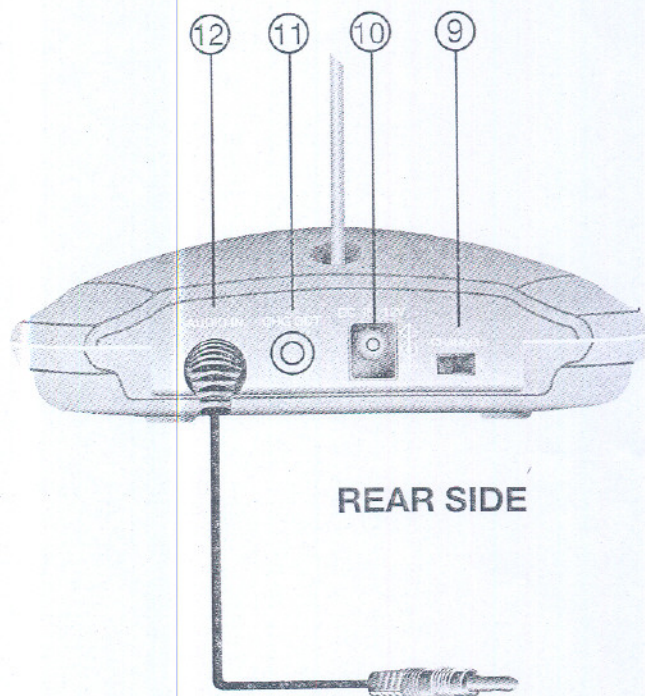


Fig.1

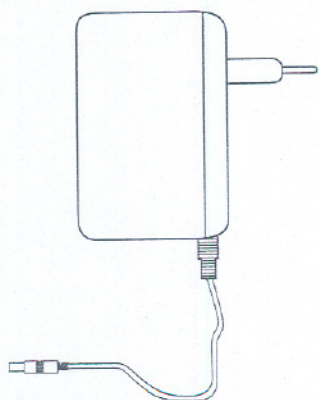
HEADPHONE RECEIVER  
FIG. 1  
KOPFHÖRER-EMPFÄNGER



TRANSMITTER



REAR SIDE





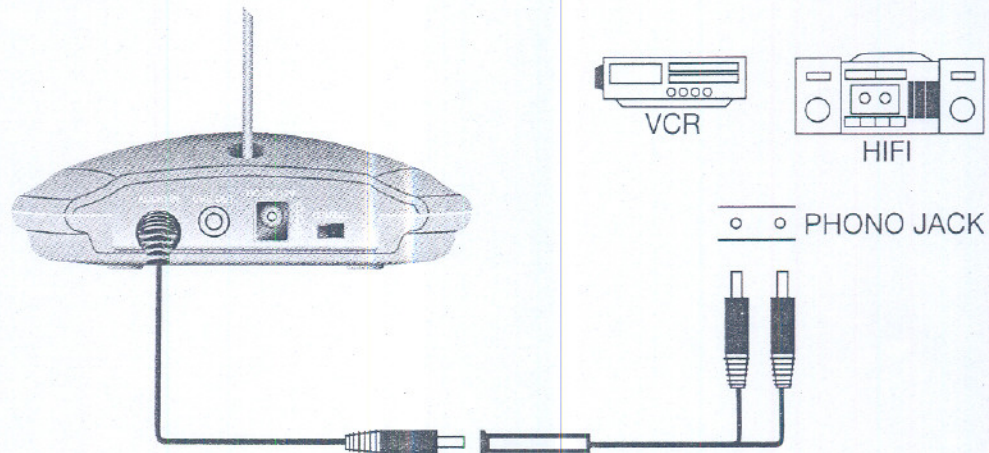
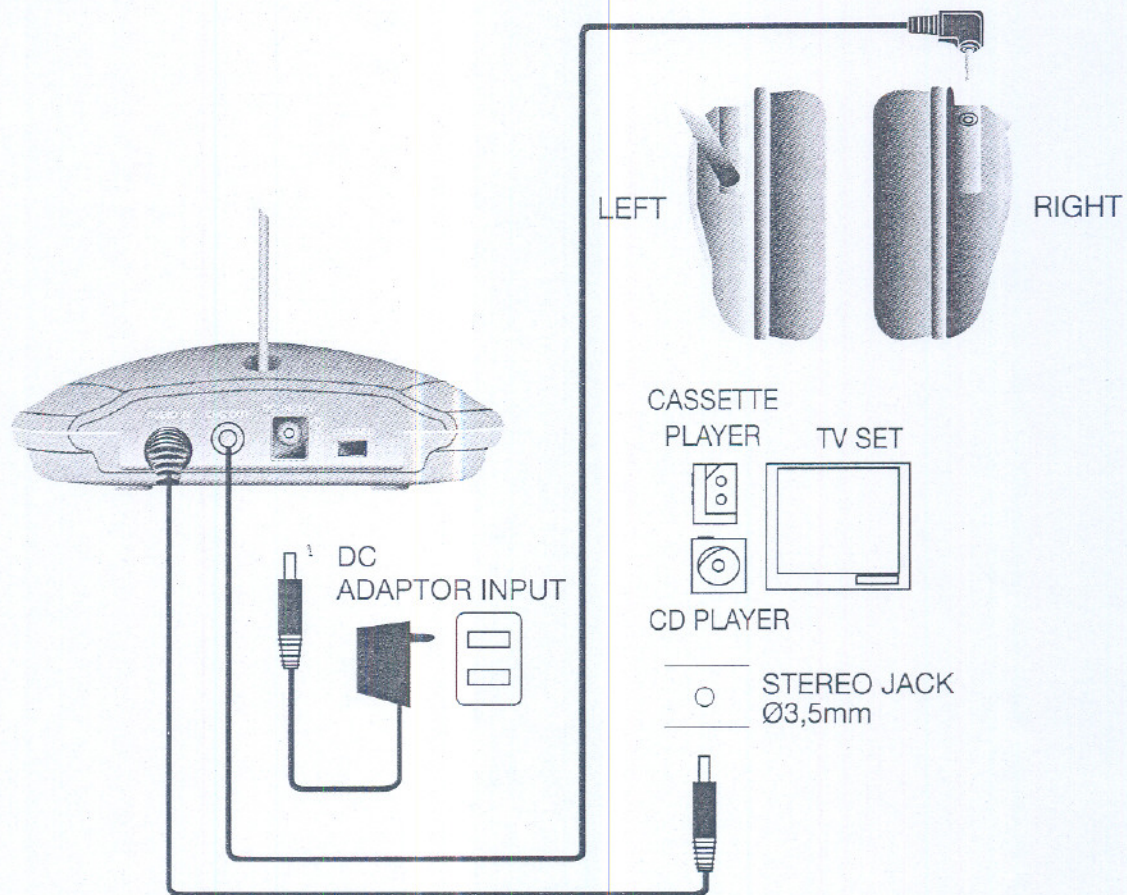
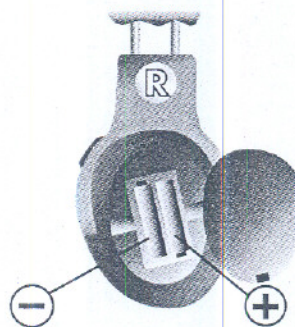


FIG. 3



BATTERY COMPARTMENT  
FIG.4



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

## FCC INFORMATION

The Federal Communication Commission Radio Frequency Interference Statement includes the following paragraph:

The equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communication. However, there is no grantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

If applicable, as below

FCC Caution: To assure continued compliance, (example – use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

### FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

This device complies with Part 15 of the FCC Rules. 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.

The user should not modify or change this equipment without written approval from Telean Technology Limited. The modification could void authority to use this equipment.