

Wireless Stereo Headphone System

Operating Instructions
Manual de instrucciones

MDR-RF930K

Sony Corporation © 1998 Printed in Japan

English

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

WARNING

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Owner's Record

The model number is located at the bottom of the transmitter and the inner side of the self adjusting band. The serial number is located at the bottom of the transmitter and inside of the battery compartment of the headphones. Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. MDR-RF930K
Transmitter TMR-RF930
Headphones MDR-RF930
Serial No. _____
Transmitter _____
Headphones _____

Welcome!

Thank you for purchasing the Sony MDR-RF930K Wireless Stereo Headphone System. Before operating the unit, please read this manual thoroughly and retain it for future

reference.

Some features are:

- Wireless system that allows you to listen to a program free from the restriction of a cord within 150 feet (46 m) from the transmitter.
- High fidelity sound reproduction
- Compact transmitter which operates on AC power using the supplied AC power adaptor
- Comfortable Supra-aural headphones with the self adjusting head band
- Automatic ON/OFF function on headphones to preserve battery power
- Mute function to avoid noise when no audio signal is available.

Notes on receiving performance

The system for this equipment utilizes very high frequency signals in the 900 MHz band so the receiving performance may deteriorate due to the surroundings. The following examples illustrate conditions that may reduce the possible receiving range or cause interference with reception.

- Inside a building with walls containing steel beams.
- Area with many steel file cabinets, etc.
- Area with many electrical appliances capable of generating electromagnetic noise.
- Transmitter is placed on a metal instrument.
- Area facing roadways.
- Noise or interfering signals exist in the surroundings due to radio transceivers in trucks, etc.
- Noise or interfering signals exist in the surroundings due to wireless communication systems installed along roadways.

Getting started

Unpacking

Check that you have the following items:

- The transmitter



- AC power adaptor



- Connecting cord (phono plugs ↔ stereo mini plug), 1 m



- The headphones



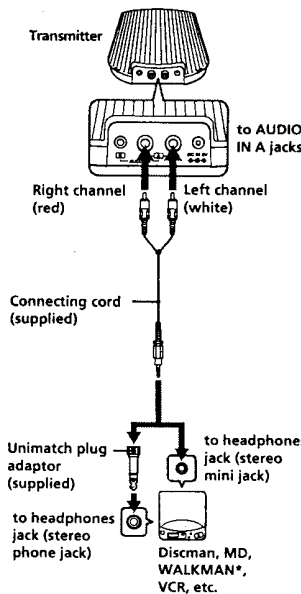
- Unimatch plug adaptor (stereo mini jack → stereo phone plug)



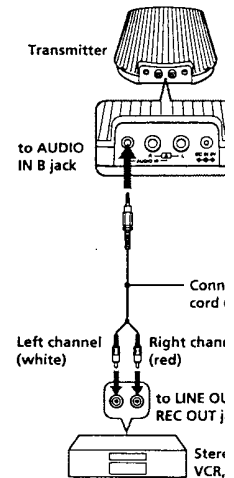
Setting up the transmitter

- 1 Connect the transmitter to audio/video equipment. Select one of the hookups below depending on the jack type:

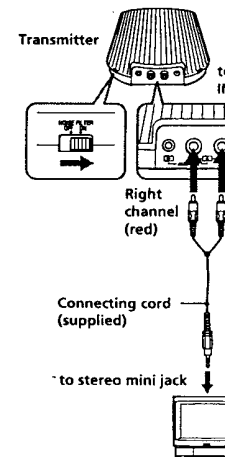
- ⓐ To connect to a headphones jack



- ⓑ To connect to LINE OUT or jacks



- ⓒ To connect to TV, etc. If noise occurs when the tra connected to the headphon your TV or VCR, set the NO FILTER switch to ON.



Notes

- If you connect the transmitter to or REC OUT jack, do not set the FILTER switch to ON. Otherwise volume will be limited.
- The NOISE FILTER switch effect only in cases such as connection in diagrams ⓐ and ⓑ, the switc effect.
- When the transmitter is placed o TV, it may pick up a noise. In su place the transmitter away from

- 2 Connect the transmitter to outlet using the supplied / adaptor. If you connect the AC pov adaptor, power of the tra will be turned on.

Notes

- Use only the supplied AC power adaptor any other AC power adaptor.



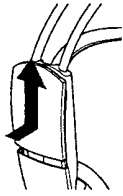
Polarity of the plug

- When you connect the connecting cord di earphone jack, the audio signal will not b through the right channel. In such a case, separately sold PC-236HG plug adaptor.
- If the connected equipment has the AVLS Volume Limiter System) function, be sure function off when using the transmitter. I will have to turn up the volume of the he that may cause noise.
- Do not place the transmitter near a fluore when using the system.

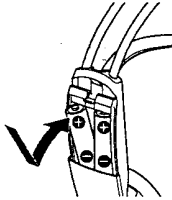
* WALKMAN is a registered trademark of Corporation.

Setting up the headphones

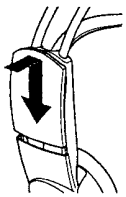
- 1 Open the battery compartment lid on the left outer side of the head band.



- 2 Insert two size AA (R6) batteries by matching the + and - on the batteries to the + and - in the battery compartment.



- 3 Close the battery compartment lid.



Battery life

Battery	Approx. hours*
Sony alkaline battery SG (LR6)	60
Sony battery SR (R6P)	30

* at 1 kHz, 1 mW + 1 mW output

Notes on batteries

To avoid damage to the system caused by battery leakage and corrosion;

- Install the batteries with the correct polarity.
- Remove the batteries if the system is not to be used for a long period of time.

In case of battery leakage, wipe off any deposit in the battery compartments before installing new batteries.

Check the remaining power of the headphones' battery

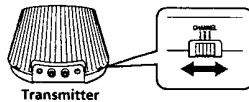
Pull up the self adjusting band, and check that the headphones' power indicator lights in red. Install a new dry battery, if the power indicator light is weak or turned off and the sound become distorted or has a lot of noise.



Operating the system

Listening to a program

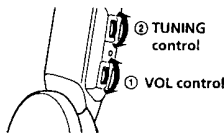
- 1 Select the radio frequency with the CHANNEL selector switch.



- 2 Turn on the audio/video equipment.
- 3 Put on the headphones and the power turns on automatically.



- 4 Turn up the volume to a moderate level with the VOL control, then tune the headphones to the transmitte frequency with the TUNING control until you can hear the audio signal loud and clear.



Try the above steps 1 and 4 until the receiving performance becomes better.

Sending RF signals from the Transmitter

The transmitter starts sending the RF signals automatically, when it detects audio signals from the equipments connected.

If it does not detect an audio signal for more than approximately five minutes, the transmitter will stop sending RF signals.

But the Power indicator remains lighting as long as the AC power adaptor is connected. When the transmitter receives an audio signal again, it starts sending the RF signals.

If the audio signal is very weak, the transmitter does not send RF signals automatically. In this case, make sure the volume of the equipments connected is set to 5 - 6.

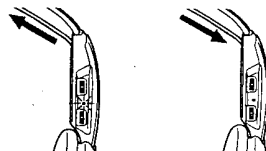
You may not hear the beginning of the sound from the headphones until the transmitter starts sending the RF signals after detecting an audio signal.

Note

If the transmitter is connected to the headphones jack of the source equipment, set the volume of that equipment as high as possible without distorting the audio signal.

Auto power on/off function

When you remove the headphones, the power turns off automatically. Do not allow the self adjusting band to be pulled up, otherwise the headphones will be switched on.



Mute function

If a hissing noise is heard when the headphones are used outside of the effective range (see the next section), the mute function will be activated and the sound will not be heard from the headphones. To restore the sound, move near toward the transmitter.

After listening to a program

Take the headphones off before turning off the transmitter. If you turn off the transmitter first, you may hear some noise.

The effective areas of the transmitter

The optimum distance is up to approximately 150 feet (46 m) without the system picking up some interference. However, the distance may vary according to the surroundings and environment. If the system picks up some noise while using it within the above mentioned distance, reduce the distance between the transmitter unit and the headphones, or select the other channel.

Notes

- When you use the headphones inside the effective areas of the transmitter, the transmitter can be placed in any direction from the listener.
- Even within the signal reception area, there are some spots (dead spot) where the RF signal can not be received. This characteristics is inherent to RF signals, and does not indicate malfunction. By slightly moving the transmitter, location of the dead spot can be changed.

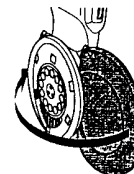
Replacing the ear pads

When the ear pads become dirty or damaged, you can get replacements from your Sony dealer. Replace them as illustrated below.

- 1 Remove the old ear pad by pulling it out of the groove on the housing.



- 2 Place the new ear pad on the driver unit and insert the edge of the pad into the groove as illustrated.



Make sure that the entire edge of the ear pad is securely inserted into the groove.

Additional information

Precautions

- When the headphones are not to be used for a long period of time, remove the batteries to avoid damage caused by battery leakage and subsequent corrosion.
- When the transmitter is not to be used for a long period of time, disconnect the AC power adaptor from the AC outlet holding the plug. Do not pull on the cord. Also remove the batteries to avoid damage caused by battery leakage and subsequent corrosion.
- Do not leave the wireless stereo headphone system in a location subject to direct sunlight, heat or moisture.

Notes on headphones

Preventing hearing damage

Avoid using headphones at high volume. Hearing experts advise against continuous, loud and extended play. If you experience a ringing in your ears, reduce the volume or discontinue use.

Caring for others

Keep the volume at a moderate level. This will allow you to hear outside sounds and to be considerate to the people around you.

If you have any questions or concerning the system that a covered in this manual, please the nearest Sony dealer.

Be sure to bring the headpho transmitter to the Sony dealer requiring repair work.

Troubleshootir

No sound/Muffled sound

- Turn on the transmitter first, the headphones.
- Check the connection of the aud equipment or the AC power ada
- Check that the audio/video equi turned on.
- Turn up the volume on the conn video equipment, if the transmi connected to the headphones jac
- Select the radio frequency with t selector, then tune the headphon frequency of the transmitter with control.
- The mute function is activated. Use the headphones near the tra
- Replace both batteries of headph
- If you connect the transmitter to I REC OUT jack of an audio reprod sure that the NOISE FILTER swit

Distortion

- If the transmitter is connected to headphones jack, turn down the connected audio/video equipme
- Select the radio frequency with t selector.
- Replace both batteries of headph
- If you connect the transmitter to I REC OUT jack of an audio reprod sure that the NOISE FILTER swit

Loud background noise

- Move closer to the transmitter. / away from the transmitter, more to be heard.
- If the transmitter is connected to headphones jack, turn up the vol connected audio/video equipme
- Select the radio frequency with tl selector, then tune in the frequen transmitter with the TUNING co
- If noise is heard when the trans hooked to the TV headphones ja connecting from LINE OUT.
- Replace both batteries of headph
- If you connect the transmitter to I REC OUT jack of an audio reprod sure that the NOISE FILTER swit

Specifications

General

Carrier frequency	913.0 - 915.0 MHz
Channel	Ch1, Ch2, Ch3
Modulation	FM stereo
Frequency response	20 - 20,000 Hz

Transmitter

RF power	Less than 94 dBµV/c
Power source	DC 9 V: supplied AC adaptor
Audio input	phono jacks/stereo n
Dimensions	Approx. 120 mm dia (4 3/4 x 3 1/2 in.) (w/
Mass	Approx. 125 g (4.4 oz)

Headphones

Power source	DC 3 V: 2 x size AA (1
Mass	Approx. 215 g (7.6 oz batteries)

Optional accessories

Plug adaptor	PC-236HG (stereo mi monaural mini plug)
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Design and specifications are subject without notice.