

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

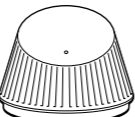
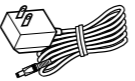



The system for this equipment utilizes very high frequency signals in the 900 MHz band so the receiving performance may deteriorate due to the surroundings. The following examples illustrate conditions that may reduce the possible receiving range or cause interference with reception.

- 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

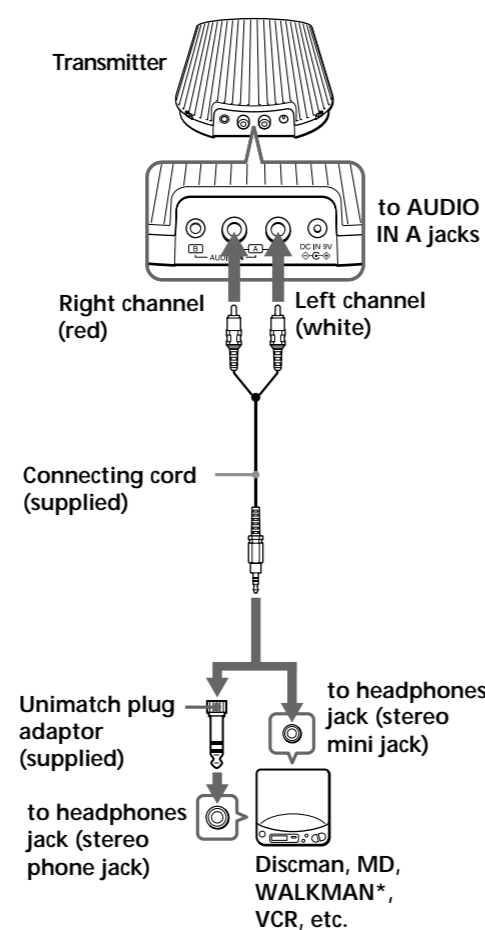
Check that you have the following items:

- 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) 

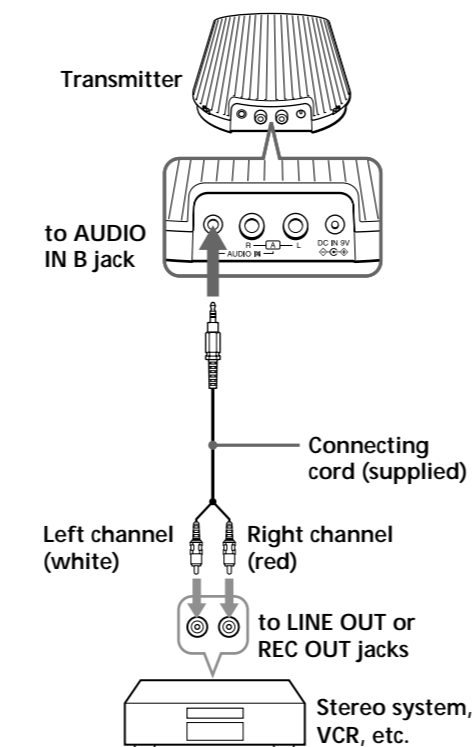
Setting up the transmitter

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

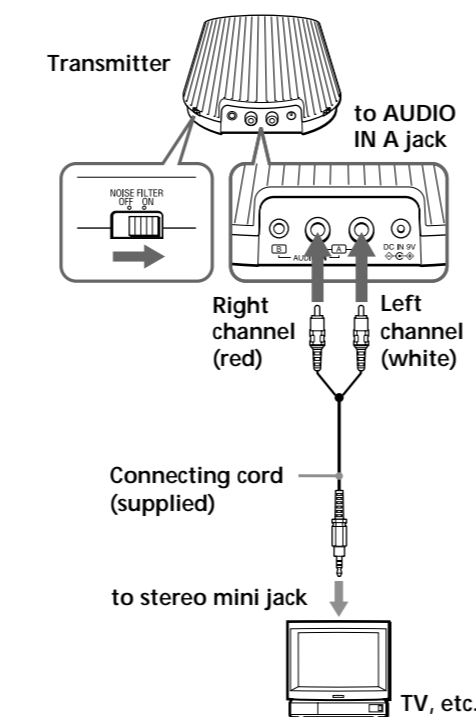
ⓐ To connect to a headphones jack



ⓑ To connect to LINE OUT or REC OUT jacks



ⓒ To connect to TV, etc. If noise occurs when the transmitter is connected to the headphone jack of your TV or VCR, set the NOISE FILTER switch to ON.



Notes

- If you connect the transmitter to LINE OUT or REC OUT jack, do not set the NOISE FILTER switch to ON. Otherwise, the volume will be limited.
- The NOISE FILTER switch effects the sound only in cases such as connection diagram ⓐ. In diagrams ⓑ and ⓒ, the switch has no effect.
- When the transmitter is placed on or near a TV, it may pick up a noise. In such case, place the transmitter away from the TV.

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

Notes

- Use only the supplied AC power adaptor. Do not use any other AC power adaptor.

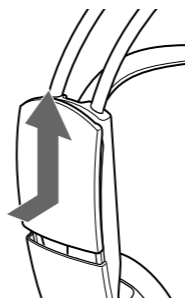
Polarity of the plug

- When you connect the connecting cord directly to an earphone jack, the audio signal will not be output through the right channel. In such a case, use the separately sold PC-236HG plug adaptor.
- If the connected equipment has the AVLS (Automatic Volume Limiter System) function, be sure to turn the function off when using the transmitter. Otherwise, you will have to turn up the volume of the headphones, and that may cause noise.
- Do not place the transmitter near a fluorescent lamp, etc. when using the system.

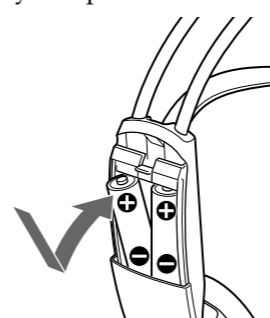
* WALKMAN is a registered trademark of Sony Corporation.

Setting up the headphones

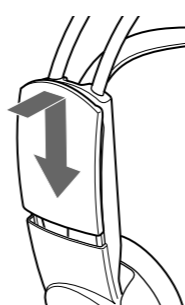
- 1 Open the battery compartment lid on the left outer side of the head band.



- 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

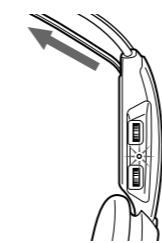
Notes on batteries

- 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

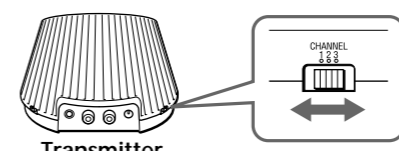
Pull up the self adjusting band, and check that the headphones' power indicator lights in red. Install a new dry battery, if the power indicator light is weak or turned off and the sound become distorted or has a lot of noise.



Operating the system

Listening to a program

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

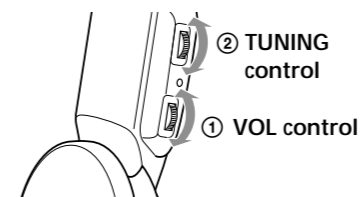


- 2 Turn on the audio/video equipment.

- 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 transmit 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.

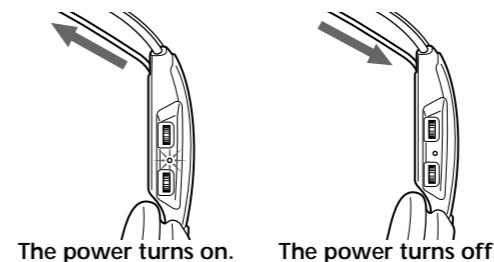
You may not hear the beginning of the sound from the headphones until the transmitter starts sending the RF signals after detecting an audio signal.

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.

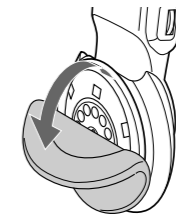
Notes

- 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.

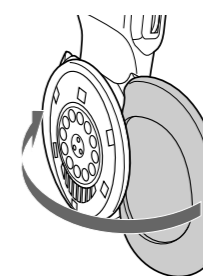
Replacing the ear pads

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 problems concerning the system that are not covered in this manual, please consult the nearest Sony dealer.

Be sure to bring the headphones and the transmitter to the Sony dealer when requiring repair work.

Troubleshooting

No sound/Muffled sound

- ➔ Turn on the transmitter first, then put on the headphones.
- ➔ Check the connection of the audio/video equipment or the AC power adaptor.
- ➔ Check that the audio/video equipment is turned on.
- ➔ Turn up the volume on the connected audio/video equipment, if the transmitter is connected to the headphones jack.
- ➔ Select the radio frequency with the CHANNEL selector, then tune the headphones in the frequency of the transmitter with the TUNING control.
- ➔ The mute function is activated. Use the headphones near the transmitter.
- ➔ Replace both batteries of headphones.
- ➔ If you connect the transmitter to LINE OUT or REC OUT jack of an audio reproducer, make sure that the NOISE FILTER switch is set to OFF.

Distortion

- ➔ If the transmitter is connected to the headphones jack, turn down the volume of the connected audio/video equipment.
- ➔ Select the radio frequency with the CHANNEL selector.
- ➔ Replace both batteries of headphones.
- ➔ If you connect the transmitter to LINE OUT or REC OUT jack of an audio reproducer, make sure that the NOISE FILTER switch is set to OFF.

Loud background noise

- ➔ Move closer to the transmitter. As you move away from the transmitter, more noise is likely to be heard.
- ➔ If the transmitter is connected to the headphones jack, turn up the volume of the connected audio/video equipment.
- ➔ Select the radio frequency with the CHANNEL selector, then tune in the frequency of the transmitter with the TUNING control.
- ➔ If noise is heard when the transmitter is hooked to the TV headphones jack, try connecting from LINE OUT.
- ➔ Replace both batteries of headphones.
- ➔ If you connect the transmitter to LINE OUT or REC OUT jack of an audio reproducer, make sure that the NOISE FILTER switch is set to OFF.

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/m at 3 m
Power source	DC 9 V: supplied AC power adaptor
Audio input	phono jacks/stereo mini jack
Dimensions	Approx. 120 mm dia × 87 mm (4 3/4 × 3 1/2 in.) (w/h)
Mass	Approx. 125 g (4.4 oz.)

Headphones

Power source	DC 3 V: 2 × size AA (R6) battery
Mass	Approx. 215 g (7.6 oz.) incl. batteries

Optional accessories

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

