

**HP4290**

**Cordless and Coded Stereo**

**900MHz Headphone System**



**User's Manual**

## **INTRODUCTION**

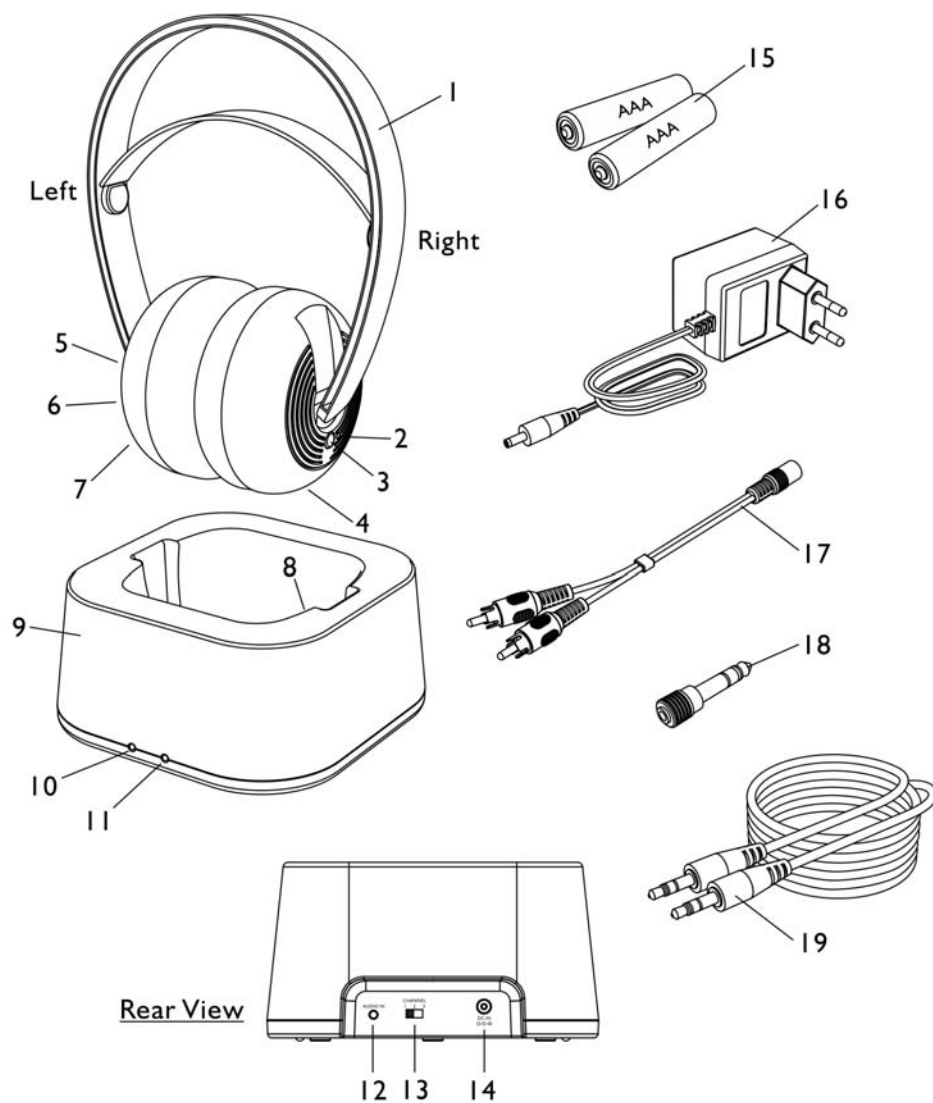
This 900MHz cordless and corded stereo headphones takes advantage of the very latest advances in wireless transmission technology so that you can listen to stereo sound from your audio components upto 50 meters. All you have to do is connect the transmitter to any audio source: DVD player, CD player, MP3, TV set, VCR, Hi-Fi system or radio.

Alternatively, you can enjoy the stereo sound with a audio cable connected directly from the headphone jack to the audio source components.

## **FEATURES**

1. Auto Scanning system on headphone
2. Phase Lock Loop (PLL) transmission system on transmitter
3. Automatic battery recharging (batteries supplied).
4. 900 MHz RF technology.
5. RF technology leaves you completely free to move around.
6. Transmission is not restricted solely to line of sight.
7. Rechargeable receiver headphones.
8. Charger built into the transmitter.
9. High quality stereo sound that is virtually interference-free.
10. Automatic Level Control (ALC) and Auto On/Off function.
11. The receiver headphones can be used as a normal corded headset.

## COMPONENT IDENTIFICATION



## **COMPONENT IDENTIFICATION**

- 1 RF receiver headphones
- 2 Power indicator light
- 3 Power On/Off switch
- 4 Charge contacts
- 5 AUTO SCAN button
- 6 Volume control knob (VOL)
- 7 Line-in Jack for connection with cable to use as normal corded headset
- 8 Charge contacts
- 9 RF transmitter
- 10 Operating indicator light
- 11 Charge indicator light
- 12 Audio connection cable with 3.5 mm jack plug
- 13 Channel selector (CHANNEL 3 2 1)
- 14 DC IN connector
- 15 Rechargeable batteries (LR03/AAA size)
- 16 12 V 200 mA mains adapter
- 17 RCA socket audio adapter
- 18 Jack plug adapter (3.5 mm/6.3 mm diameter)
- 19 Audio cable (for use as corded headset)

## **INSTALLATION**

### **TRANSMITTER**

1. Connect the mains adapter provided to an electrical outlet.
2. Connect the mains adapter cable to the DC IN input connector located on the transmitter rear panel.
3. An audio cable is provided from the transmitter rear panel that can be connected to the audio outputs (Left and Right) present on a TV set, Hi-Fi system, VCR or radio-cassette player.

The red Auto On indicator light will light up as soon as you have connected both the power adapter to the mains outlet AND the audio cable to a signal source. If the Auto On indicator light remains off, switch on the audio source and increase its output level until the red indicator light comes on.

### **RECEIVER HEADPHONES**

1. Move out the earpad holder from the right hand side (R) of receiver headphone.
2. Insert two rechargeable LR03/AAA size batteries taking care to ensure correct polarity.
3. Put back the earpad holder to the right hand side of receiver headphone.
4. Switch off the receiver headphones and place it into the transmitter to charge the batteries for 24 hours before the first use.

## **OPERATION**

1. Switch on the sound source (TV set or audio component) that the transmitter is connected to.
2. Place the headphones On/Off switch in the On position.
3. Place the headphones on your head and adjust the volume to obtain the desired sound level.
4. If you cannot find the best reception frequency, press the "Auto Scan" button on the headphones.

### **NOTE:**

You should then be able to move around freely from one room to another without any interference. If interference does occur (interruptions in the signal), press the "Auto Scan" button once to find a better reception channel.

- A** For better stereo reception, stay approximately seven meters away from the transmitter when you press the "Auto Scan" button.
- B** If it is impossible to find a satisfactory frequency, change the setting on your transmitter, then press the "Auto Scan" button on the headphones to find the corresponding channel.

To both protect the transmitter and save power, the transmitter automatically switches off after approximately four minutes if there is no audio signal, or the signal that it receives from the audio source is too weak for proper reception. If however the signal returns to an acceptable level, then the transmitter automatically switches back on.

## **CHARGING THE BATTERIES**

1. Place the On/Off switch on the receiver headphones in the Off position.
2. To recharge the headphone batteries, place the headphones on the transmitter, taking care to ensure that the charge contacts touch the transmitter's charge prongs and the green charging indicator is ON.
3. The charge process starts automatically and the green indicator light comes ON. Be sure to charge new batteries for 24 hours before using them for the first time in the headphones. The green indicator light will be on continuously during battery charging.

## **TO USE THE RECEIVER HEADPHONES AS A NORMAL CORDED HEADSET :**

1. Connect the audio cable with one end to the audio jack "LINE IN" of the receiver headphones and the other end to the headphone jack of the audio sound components (e.g. Hi-Fi, CD player, MP3, TV, etc...)
2. Please note when the receiver headphones is used as a normal corded headset with the audio cable, power on/off and volume knob of the receiver headphones are inactivated. The volume of the headset can only be adjusted from the audio sound sources (e.g. Hi-Fi, CD player, MP3, TV, etc...)

**WARNING:**

Never attempt to recharge conventional dry cells.

Never use another type of battery or non-rechargeable batteries to replace the rechargeable (LR03/AAA) batteries supplied. When the headphones are not in use, move the switch to the OFF position to avoid damaging the batteries.

The batteries must always be fully charged before first use. An initial 24 hour charge is required to guarantee an acceptable service life for the rechargeable batteries. Always ensure that the headphones are switched to the Off position while the batteries are charging.

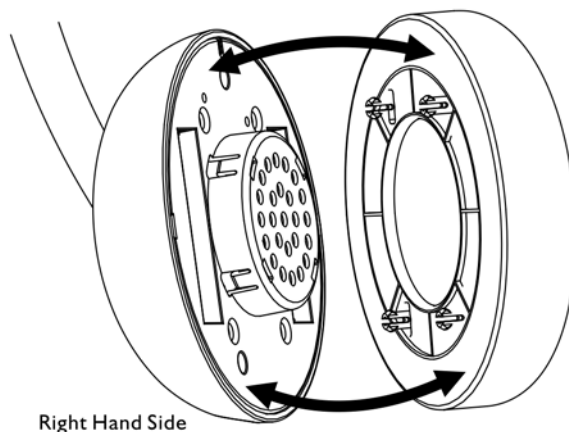
**IMPORTANT:**

This unit should be operated with rechargeable batteries only. When replacing the batteries or when disposing of the unit, always comply with applicable laws relating to the disposal of batteries. Please place them in a proper disposal container to ensure that they are eliminated safely and in an environmentally-friendly way. Thank you.



## **REPLACING BATTERIES**

Rechargeable batteries have a long service life. If it is however necessary to replace them, proceed as described below:



1. Carefully pull out the right-side (R) earpad holder from the receiver headphones. Install the 2 new rechargeable batteries in their housings as illustrated. Check the correct +/- polarity.
2. Put back the earpad holder into the receiver headphone and make sure to align the plastic holding slots on the receiver headphones.

Only use rechargeable batteries of the type specified under the "Technical specifications" heading.

The rechargeable batteries supplied with the headphones must absolutely not be taken apart, disposed of in an open fire or short circuited.

## **TECHNICAL SPECIFICATIONS**

Transmission mode	: UHF stereo
Carrier frequency	: 900MHz
Operating voltage	: Transmitter – 12 V 200 mA Receiver – 2.4 V (two rechargeable batteries, LR03/AAA size)
Frequency response	: 30 Hz – 11 KHz
Distortion	: 1.5 – 3 %
Signal-to-noise ratio	: 50 dB
Channel separation	: 30 dB
Range	: 50 meters (open area)

### **Caution:**

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

## **TROUBLESHOOTING**

### **NO SOUND**

- Ensure that the mains adapter is pushed fully into the power outlet and that its cable is properly connected to the DC IN 12V connector on the transmitter.
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- Ensure that the headphones On/Off switch is switched to the On
- The headphones battery charge level may be too low. Recharge the batteries or replace them with fully charged batteries.
- Ensure that your TV set, Hi-Fi system or audio component is switched on and set to a channel that broadcasts an audio signal.
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- Use the headphones volume control to increase the sound level (only when use as a wireless headphone). When use as a corded headphone, the headphone volume can be adjusted at the sound source eg. Hi-Fi, or TV, etc.
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- The connected audio/video equipment may not be in playback mode. Start playback on by the equipment.
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- The headphones output level is set too low. Adjust the volume to a suitable level.
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### **DISTORTION**

- If distortion appears, press the “Auto Scan” button again.
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- Use the channel selector to change the transmitter's transmission frequency. Then you will need to adjust the tuning control by press the "Auto Scan" button on the headphones.
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- The headphones battery charge level may be too low. Recharge the batteries or replace them with fully charged batteries.
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- Ensure that the volume knob setting is correct.
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- The headphones may be too far away from the transmitter. Move closer to it.
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- The audio signal input level is too low. Increase the volume from the audio source of Hi-Fi, CD, or TV, etc.