210 mm

297 mm

Model URG-13203 RF Wireless Headphones

Introduction

Congratulations! You have obtained the most sophisticated RF/FM Wireless Stereo Headphone System. Using the latest FM Wireless technology, you will be enjoying the best audio quality with complete freedom of movement. Please read this manual to install and use the equipment properly before you start enjoying the excellent quality of sound the system produces.

Important

Before using the RF/FM Wireless Stereo Headphone System for the first time, please ensure that the batteries are fully charged for about 16 hours. This will guarantee a longer operating lifetime of the batteries.

General Information

Function and Capability

1. **RF/FM wireless transmission**
   The transmitter transmits the stereo audio signal from your audio or video source to the headphones without wires. The headphones receive signals even through walls, doors and windows. The headphones use high radio frequency as the signal carrier ensuring an absolutely clear and crisp reception. Multiple headphones can be used with a single transmitter at the same time.
2. **Automatic rechargeable system**
   The FM transmitter automatically recharges the rechargeable batteries built in the headphones. Simply place the headphones on the transmitter with the recharging contact on the transmitter and headphones connected. The green LED will light up during recharging. After the batteries are fully charged, the green LED light will stop.
3. **Volume control**
   A volume controller is located on the left headphone. Simply adjust the button to get your most desirable volume level.
4. **Applications**
   The RF/FM Wireless Stereo Headphone System is compatible with HiFi, VCR, DVD, CD, MD, MP3, iPod, TV, Computer and all audio and video equipments. Please see the installation and operation instruction.

Contents

1 x Transmitter
1 x Headphone Receiver
1 x 3.5mm Stereo Plug to 2 x RCA Audio Cable
1 x 3.5mm Stereo Plug Audio Cable
1 x AC 120V DC5V. 300 ma. Adaptor

Controls

Transmitter (Figure 1)

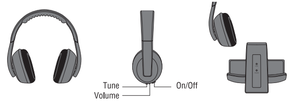
1. **Level indicator**
   The red LED lights up when audio signals are detected.
2. **Recharging indicator**
   The green LED will light up during recharging. When the recharging is completed, the LED will not light up.
3. **Recharging contact**
   The headphones should be replaced on the transmitter and aligned to this contact for recharging.
4. **Tuning selector**
   This is for selecting any of the three channels.
5. **DC Socket**
   The DC5V. 300 ma. External adaptor provided should be connected to this socket to obtain power.
6. **Line audio input**
   The 3.5mm stereo plug to 2 x RCA audio cable provided should be connected to this outlet as an alternative connection to audio source.
7. **Audio cable input**
   A 3.5mm stereo plug audio cable provided should be connected to this outlet to audio source.

Figure 1

Headphones (Figure 2)

1. **Power switch and indicator**
   The red LED lights up when it is powered on and in use.
2. **Tuning selector and indicator**
   When there is hissing sound through the headphones, push the selector to obtain the proper channel. The red LED will keep flashing during the selection. When the proper channel is obtained, the red LED will stop flashing and light up.
3. **Volume control**
   The controller is situated on the left side of the headphones for adjusting the volume level conveniently.
4. **Recharging contact**
   The contact should be aligned to the recharging contact in the transmitter during recharging.

Figure 2



Installation and Operation

Installation

1. **Transmitter power supply (Figure 3)**
   i. An external DC 5V. 300ma. Adaptor is supplied. Connect the DC connector of the Adaptor to the power input connector.
   ii. Make sure the adaptor's rated voltage corresponds to the mains socket Voltage.
   iii. Connect the adaptor to the mains socket.
2. **Headphones power supply (Figure 4)**
   i. **Use only rechargeable LR03/AAA/NiMH batteries. Do not use NiCd batteries or alkaline batteries as these may damage your RF/FM Wireless Stereo Headphone System.**
   ii. The power button should be in the off position.
   iii. Place the headphones on the transmitter with the recharging contact on the transmitter and headphones connected. The green LED light will light up during recharging. After the batteries are fully charged, the green LED light will stop.
3. **Batteries (Figure 5)**
   Complete flat batteries need at least 16 hours to recharge. During recharging the Batteries, the transmitter will not transmit any audio signals.

   Always remove the batteries if the headphone is not to be used for a long period of time. See **Figure 6** for placement of the batteries.

   Batteries contain chemical substances. They should be disposed of appropriately.

Figure 3

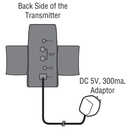


Figure 4

Figure 5

During recharging the batteries, the transmitter will not transmit any audio signal.

Note: Use only rechargeable LR03/AAA/NiMH batteries. Do not use NiCd batteries or alkaline batteries, as these may damage the Headphone system.

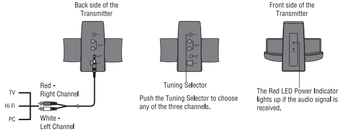
Figure 6

1. Remove the deco with battery sign to reveal the screw. Unscrew and remove the battery door.
2. Remove the spent batteries and discard appropriately.
3. Replace with new batteries following the sign on the battery door.
4. Replace the battery door and screw to lock it. Then replace the deco.

Operation

1. **Audio connection - line audio input option 1 (Figure 7)**
   i. **Use only one of the audio inputs, either the 3.5mm stereo headphone audio input or the line audio input. Using both audio inputs at the same time may damage your RF/FM Wireless Stereo Headphone System.**
   ii. Connect the 3.5mm stereo plug of the line audio cable to the transmitter's 3.5mm headphone input.
   iii. Connect the 2 RCA plugs of the line audio cable to a line out (REC OUT) or LINE OUT) of an audio source - TV, HiFi, PC. Make sure That the red RCA plug (right channel) is connected to the right Channel (red) of the audio source and the white RCA plug (left Channel) is connected to the left channel (white) of the audio source.
   iv. Switch on your audio source. Push the tuning selector to choose any of the three channels. The red LED power indicator of the transmitter lights up if the audio signal is received. In case the line output of the audio source has an adjustable output level, adjust the line output level of the audio source to the highest acceptable undistorted level. The red LED will stop lighting up after the audio source has been disconnected for 1 minute.
   v. Switch on the headphone. You may hear a hissing sound through the Headphones if the headphones is not yet properly tuned to the Transmitter. Push the selector to obtain the proper channel. The red LED will keep flashing during the selection. When the proper channel is obtained, the red LED lights up.
   vi. The volume controller is situated on the left side of the headphones for adjusting the volume level conveniently.

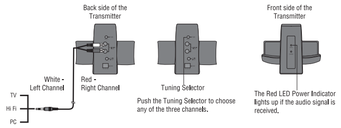
Figure 7 Audio Connection - Line Audio Input Option 1

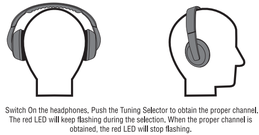


Switch On the headphones. Push the Tuning Selector to obtain the proper channel. The red LED will keep flashing during the selection. When the proper channel is obtained, the red LED will stop flashing.

2. **Audio connection - line audio input option 2 (Figure 8)**
   i. **Use only one of the audio inputs, either the 3.5mm stereo headphone audio input or the line audio input. Using both audio inputs at the same time may damage your RF/FM Wireless Stereo Headphone System.**
   ii. Connect the 2 RCA plugs of the line audio cable to the transmitter's audio inputs. Make sure that the red RCA plug (right channel) is connected to the right Channel (red) of the transmitter and the white RCA plug (left Channel) is connected to the left channel (white) of the transmitter.
   iii. Connect the 3.5mm stereo plug of the line audio cable to the headphone output of an audio source - TV, HiFi, PC.
   iv. Switch on your audio source. Push the tuning selector to choose any of the three channels. The red LED power indicator of the transmitter lights up if the audio signal is received. In case the line output of the audio source has an adjustable output level, adjust the line output level of the audio source to the highest acceptable undistorted level. The red LED will stop lighting up after the audio source has been disconnected for 1 minute.
   v. Switch on the headphone. You may hear a hissing sound through the Headphones if the headphones is not yet properly tuned to the Transmitter. Push the selector to obtain the proper channel. The red LED will keep flashing during the selection. When the proper channel is obtained, the red LED lights up.
   vi. The volume controller is situated on the left side of the headphones for adjusting the volume level conveniently.

Figure 8 Audio Connection - Line Audio Input Option 2

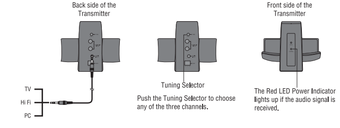




Switch On the headphones. Push the Tuning Selector to obtain the proper channel. The red LED will keep flashing during the selection. When the proper channel is obtained, the red LED will stop flashing.

3. **Audio connection - audio cable input (Figure 9)**
   i. **Use only one of the audio inputs, either the 3.5mm stereo headphone audio input or the line audio input. Using both audio inputs at the same time may damage your RF/FM Wireless Stereo Headphone System.**
   ii. Connect the 3.5mm stereo plug of the audio cable to the transmitter's audio inputs.
   iii. Connect the 3.5mm stereo plug of the audio cable to the headphone output of an audio source - CD, MD, MP3, iPod.
   iv. Switch on your audio source. Push the tuning selector to choose any of the three channels. The red LED power indicator of the transmitter lights up if the audio signal is received. In case the line output of the audio source has an adjustable output level, adjust the line output level of the audio source to the highest acceptable undistorted level. The red LED will stop lighting up after the audio source has been disconnected for 1 minute.
   v. Switch on the headphone. You may hear a hissing sound through the Headphones if the headphones is not yet properly tuned to the Transmitter. Push the selector to obtain the proper channel. The red LED will keep flashing during the selection. When the proper channel is obtained, the red LED lights up.
   vi. The volume controller is situated on the left side of the headphones for adjusting the volume level conveniently.

Figure 9 Audio Connection - Audio Cable Input



Switch On the headphones. Push the Tuning Selector to obtain the proper channel. The red LED will keep flashing during the selection. When the proper channel is obtained, the red LED will stop flashing.

Troubleshooting

Question: When there is no sound

Remedy :
i. The batteries in headphones are running low. Simply place the Headphones on the transmitter to recharge the batteries.
ii. You should check if the audio source is switched on
iii. You should check if the volume is on the low side. Adjust the volume to obtain the right level of sound.
iv. Push the tuning selector on headphones until the clear sound is obtained. The red LED will keep flashing during the selection. When the proper channel is obtained, the red LED will light up.

Question: When there is distorted sound

Remedy :
i. Push the tuning selector on headphones until the clear sound is obtained. The red LED will keep flashing during the selection. When the proper channel is obtained, the red LED will light up.
ii. Push the tuning selector on transmitter to select any of the three channels. Push the selector on headphone again until the clear sound is obtained.
iii. The batteries in headphones are running low. Simply place the Headphones on the transmitter to recharge the batteries.
iv. You should check if the volume on the audio source or headphones are at too high level. Adjust the volume to obtain the right level of and clear sound.
v. The distance from the transmitter is too large. Move to the place that is closer to the transmitter.
vi. Fluorescent lamps and other radio sources will cause interference. Move the transmitter or headphones elsewhere. Also change the transmitter channel to obtain clear sound.

Specifications

Transmitter

Carrier frequency	914,914.5,915MHz
Power supply	DC 5V 300 ma.
Dimensions	148 x 107 x 120mm

Headphones

Drivers	Full range 40mm dia.
Frequency response	20-20,000 Hz
Impedance	32 Ohms
Sensitivity	105dB @ 1KHz
Signal-to-noise ratio	> 60dB
Distortion	<1%
Channel separation	>30dB
Power supply	3V (2 x LR03, AAA, NiMH)
Dimensions	185 x 165 x 75mm

Safety Instructions

- The apparatus and AC/DC adaptor shall not be exposed to dripping or splashing place and no subject filled with liquids such as vases, should be placed on apparatus.
- AC/DC adaptor is used as the disconnected device. It shall remain readily operable and should not be obstructed during normal use. To completely disconnect the apparatus from the supply mains, the AC/DC adaptor of the apparatus should be disconnected from the mains socket outlet completely.
- Batteries should not be exposed to excessive heat such as sunshine, fire or the like.
- Excessive sound pressure from headphones can cause hearing loss.

Additional Recommendation

- Minimum distance of 50cm around the apparatus should be maintained for sufficient ventilation
- The ventilation should not be impeded by covering the ventilation openings with items such as newspaper, table cloths, curtains, etc.
- No naked flame sources such as lighted candles should be placed on the apparatus.
- Attention should be drawn to the environmental aspects of battery disposal.
- To use the apparatus in moderate climates.

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.

This 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 instructions, may cause harmful interference to radio communications. However, there is no guarantee 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 correct the interference by one or more of the following measures:

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

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.