

# JW-01

Operating Instructions  
2.4 GHz Deluxe Wireless Stereo Headphone Systems  
JW-01

Version 1.0, 2003-08-01

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## Features

The JW-01 is a digital stereo headphone system using 2.4 GHz wireless digital modulation technique. You can enjoy CD-quality stereo sound with headphones by connecting the transmitter to a DVD device, TV, VCR, VCD, PC, or other device with the supplied cables. Enjoy your stereo sound anywhere in the room.

- Non-compressed transmission to ensure a detailed, analytical sound reproduction with strong bass response
- Frequency hopping technology eliminates interference within the 2.4 GHz band. You can use these headphones anywhere in open space up to 100 feet from the transmitter
- High performance 31 mm diameter driver units for deep bass response, low distortion and wide dynamic range
- Large soft-cushioned comfortable ear pads for maximum comfort
- Support stereo audio RCA, S/PDIF coaxial, optical, and USB audio inputs



TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

## Precautions

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 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.

## CAUTION

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.



## Precautions

### Power Source and Element

- Connect the unit to a power source of the type described in this instruction.
- Turn off the unit and unplug the power adaptor from the AC outlet if you are not going to use the system for a long time. Always grip the power plug, do not pull on the cord.
- Do not expose the transmitter or headphones to direct sunlight, near a heater or water.
- Do not place the system in a location of excessive smoke, dust, mechanical vibration, humidity, and shock.
- Do not place anything on top of the transmitter.

### Listening Safety

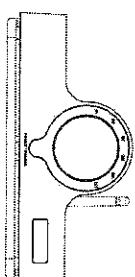
- Always turn the volume down on your listening device before putting on the headphones.
- Using earphones at high volume can permanently damage your ears. To use the system safely, please review the following guideline established by the U.S. Occupational Safety Health Administration (OSHA) on maximum time exposure to sound pressure levels before hearing damage occurs.

Permissible Noise Exposure Duration Per Day (Hours)	Sound Level (dBA) Safe Response
6	90
4	92
3	95
2	97
1 1/2	100
1	102
1/2	105
1/4 or less	110
	115

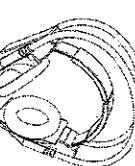
Use soft, slightly moistened cloth with mild detergent solution. Never use alcohol, paint thinner or benzene to clean the system as these may damage the surface.

## Components and Accessories

Before setting up the system, check that all of the components are included



Transmitter (1)



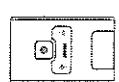
Wireless stereo headphones (1)



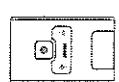
Power adaptor (1)



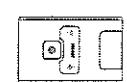
Optical digital cable (1)



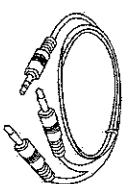
USB Type A-B cable (1)



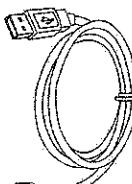
Rechargeable nickel-metal hydride (Ni-MH) battery (2)



Remote Control(1)



Stereo audio signal cable with RCA on one end and 3.5mm plug on the other end (1)



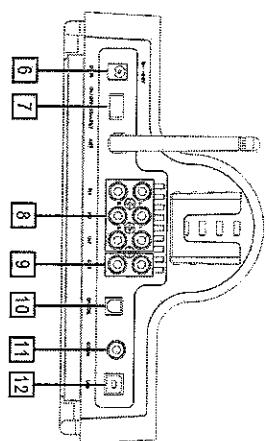
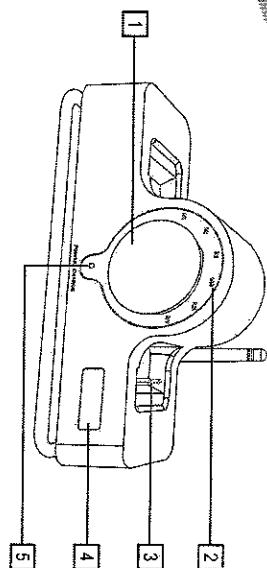
Coaxial digital cable (1)



RCA cable (1)

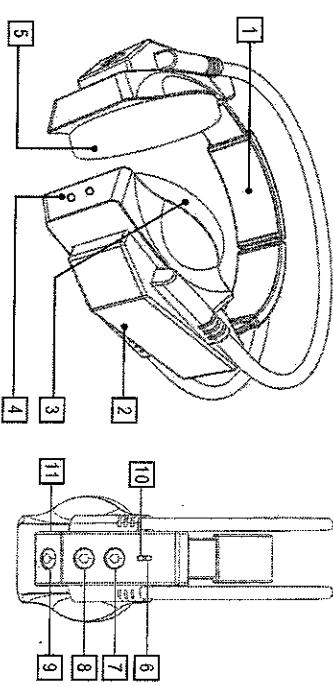
**Location and Function of Components**

**Front Panel of the Transmitter**

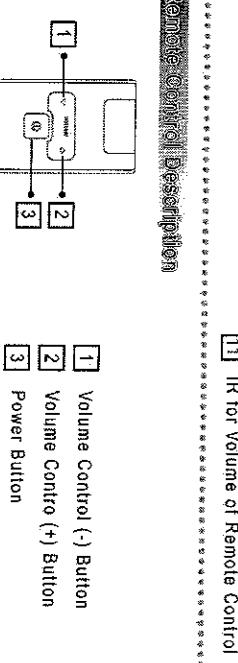


**Location and Function of Components**

**Headphones Description**



**Remote Control Description**



## Charging

Charge the supplied rechargeable Ni-MH battery before use

### Inserting the batteries

#### STEP1

Open the battery compartment cover on the right housing of the headphones

STEP2 Insert the supplied rechargeable Ni-MH batteries into the battery compartment matching the  $\oplus$  terminal on the battery to the  $\oplus$  mark in the compartment

#### STEP3

Close the battery compartment cover

### Charging

#### STEP1

Connect the supplied power adaptor to the DC IN 5V jack of the transmitter

Switch the main power of the transmitter to the ON position. The POWER/CHARGE LED on the front of the transmitter blinks in red and green 3 times and stays in green. Or switch the main power of the transmitter to the STANDBY position. The POWER/CHARGE LED on the front of the transmitter blinks in red 3 times and goes off



#### STEP2

Transmitter DC IN 5V jack  $\longleftrightarrow$  To an AC outlet

Use both hands to place the headphones vertically on the transmitter so that the charge contact point on the bottom of the right housing of the headphones meets the charging pins on the transmitter. The POWER/CHARGE LED lights in red, and then charging starts. It goes off when the charging is completed. There is no need to remove the headphones from the transmitter after charging has completed

● Approximately charging time: 3 hours

● Approximately operating time: 8 hours

### Checking the battery power

Check the LOW POWER LED on the left housing of the headphones. The LED blinks in red when the battery is low. Charge the rechargeable battery when the LED blinks in red

## Connection

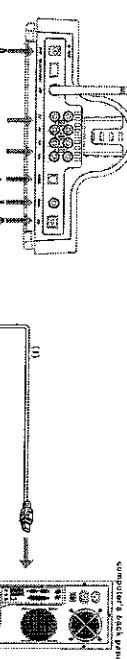
STEP1. Connect the transmitter to AV systems

(a) Use the supplied optical digital cable to connect the S/PDIF optical output jack on a game box, MD player, CD player, or other device to the OPTICAL IN jack of the transmitter

(b) Use the supplied coaxial digital cable to connect the S/PDIF coaxial output jack on a CD player, PC, or other device to the COAXIAL IN jack of the transmitter

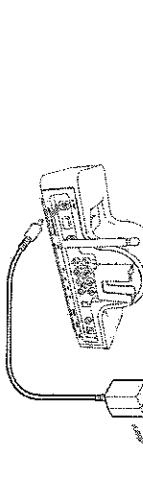
(c) Use the supplied stereo audio signal cable to connect the audio output jack on a MP3 player, portable CD player, headphone stereo, or other device to the RCA IN jack of the transmitter

(d) Use the supplied USB Type A-B cable to connect the USB jack on a computer, MP3 player, or other device to the USB audio in jack of the transmitter



#### STEP2

Connect the supplied power adaptor to the DC IN 5V jack of the transmitter



#### STEP2

Transmitter DC IN 5V jack  $\longleftrightarrow$  To an AC outlet

Transmitter DC IN 5V jack  $\longleftrightarrow$  To an AC outlet

## Listening

### STEP1

- Switch the main power of the transmitter to the ON position. The POWER/CHARGE LED on the front of the transmitter blinks in red and green 3 times and then stays in green

\* The POWER button on the remote control has no function to the transmitter when the main power is switch to the ON position

- Switch the main power of the transmitter to the STANDBY position. The POWER/CHARGE LED on the front of the transmitter blinks in red 3 times and goes off. Press the POWER button on the remote control to turn on the power of the transmitter

### STEP2

- Turn the rotary switch on the front of the transmitter to the selected audio source

### STEP3

- Turn on the device connecting to the transmitter.

### STEP4

- Remove the headphones from the transmitter and turn on the power of the headphones by pressing the POWER ON/OFF button on the left housing of the headphones for 1 second. The LINK LED on the left housing of the headphones lights in green and the selected audio source LED on the transmitter lights in amber when the emission starts

### STEP5

- Put on the headphones and make sure to match the right and left side of the headphones with your ears

### STEP6

- Adjust the volume by pressing the (+) or (-) volume button on the left side of the headphones or on the remote control

### STEP7

- Power off the headphones by pressing the POWER ON/OFF button on the left side of the headphones for 1 second when stop listening and the LINK LED on the headphones goes off. The headphones turn off automatically when there is no emission from the transmitter for approximately 1 minute, such as the power of the transmitter is off, the distance is over communication range or the transmission route is blocked

## Troubleshooting

If you encounter any problems using this headphone system, use the checklist below

### Problem

### Solution & Suggestion

\* Check the connection between the transmitter and the AV system

\* Check that the rotary switch on the transmitter is turned to the audio source you want to listen to

\* Check that the signal is not being input to the RCA bypass out jack by mistake when RCA input is selected.

\* Check that the AV system is turned on and starts to play.

\* Check that the battery in the headphone is charged

\* Raise the headphone volume

\* Check if there any play order when USB, coaxial and optical are built in the same AV system

### No sound

### Distorted sound

\* Charge the rechargeable batteries if it is weak or replace them with new ones

\* If the transmitter is connected to a headphone jack of an AV system, lower the volume level of the connected AV system

\* Change the position of the transmitter

\* Check if there any wireless device using 2.4 GHz frequency Bluetooth, WiFi, or a microwave oven in the area

### Low sound or excessive noise

\* If the transmitter is connected to a headphone jack of an AV system, raise the volume level of the connected AV system

\* Check if there any wireless device using 2.4 GHz frequency Bluetooth, WiFi, or a microwave oven in the area

\* Charge the rechargeable batteries if it is weak or replace them with new ones

\* Change to analog output from a DVD player if a DVD disc and a digital optical or coaxial output is used from the DVD player

\* Check that the battery is rechargeable Ni-MH battery

\* Check the  $\oplus$  terminal on the battery matches the  $\oplus$  mark in the battery compartment

\* When cause is corrected, switch the main power of the transmitter to the OFF position and then to ON or STANDBY to return the system to normal

## Specifications

### 2.4 GHz 2.0 Transmitter

Modulation System	GFSK Digital
Carrier Frequency	2.4 GHz - 2.4835 GHz
Transmission Distance	Open Space Approx. 100 Feet
Radio Power	15 dBm
RF Link	4 Mbps
Error Correction	Build-in QoS Function
Power Requirement	DC 5 V (from the supplied power adaptor)
Audio Inputs	Stereo Audio RCA x 3 USB x1 S/PDIF Optical x 1
Audio Output	S/PDIF Coaxial x 1 Stereo Audio RCA Bypass Output x 1 (from RCA inputs)
Dimensions (WxHxD)	Approx. 250x115x105mm (9 5/16 x4 1/2 x4 1/16 in)
Mass	Approx. 427.8g (16.14oz)

### Wireless Stereo Headphones

Frequency Response	20Hz - 20KHz
THD	<1%
Power Requirement	Rechargeable Nickel-Metal Hydride (Ni-MH) AAA Battery x 2
Operating Time	Approx. 8 Hours
Dimensions (WxHxD)	Approx. 190 x 200 x 82 mm (7 1/2x8x3 1/4 in)
Mass	Approx. 244.2g (8.61oz)

## **Use 2.4GHz WIRELESS RECEIVER**

### RF exposure warning

The equipment complies with FCC RF exposure limits set forth for an uncontrolled environment.

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