



C 9031 2.4GHz Digital Wireless Headphones



CAUTION

This appliance is not intended for use by persons (including children) with reduced physical, sensory and mental capabilities, or lack of experience or knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety. Children should be supervised to ensure they do not play with the appliance.

Disclaimer:

For repair or service please contact your place of purchase.

Note: Under no circumstances should you attempt to repair the player yourself or via a non-authorised Altronics service centre as this will invalidate the warranty!

During the warranty period, we undertake to repair or replace your product at no charge if found to be defective due to a manufacturing fault. The warranty excludes damage by misuse, neglect, shipping accident, incorrect installation or no fault found.

NOT FIELD SERVICEABLE.

Distributed by:

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Operating Instructions

INTRODUCTION

Congratulations. You have purchased a high-performance, high-quality product which will give you many hours of listening pleasure. The C9031 wireless stereo headphone system is designed for PC, TV, Hi-Fi, and other audiovisual entertainment use. It utilizes wireless digital audio technology to transmit and receive crystal-clear audio over a distance of up to 30 metres, even through walls and floors. It lets you sit where you like and enjoy freedom of movement, without the hassle of wires, while watching TV or listening to music.

The C9031 lightweight headphone features a special soft cushion, closed cup design that completely covers your ears. This effectively enhances the bass frequencies while isolating ambient noise. All these features will guarantee you powerful bass with exceptional audio fidelity, with minimal inference from background noise.

Features:

- Operates at 2.4GHz ISM band digital transmission with four selectable channel frequencies.
- Low power consumption.
- Transmission signal range up to 30 metres (LineOfSight), even through walls etc.
- Superior Signal-to-Noise ratio (80dB or higher) and stereo channel separation.
- Auto channel track and hold for the receiver.
- No interference from microwave ovens or cordless phones.
- Ultra comfortable soft cushion design closed ear-cup headphones with powerful bass response.
- Charger for headphones battery doubles as DC power supply for transmitter.
- Audio inputs to the transmitter from either analog line-in or digital USB.
- Transmitter dongle compatible with Windows OS 98SE/Me/2000/XP/Vista/ Windows 7.

Applications:

- Watching TV or DVD Video. (TV or DVD player must have audio line out or earphone jack)
- Note: TV's mute function will normally mute only the TV speakers, not what you hear in the headphones.
- Listening to music from iPod, MP3 or CD players.
- Listening to music from Notebook or Desktop PC.

NOTE: BEFORE OPERATING THIS EQUIPMENT, READ THIS MANUAL IN ITS ENTIRETY.

EQUIPMENT SAFETY

WARNING! If using non-NiMH batteries (such as: Zinc carbon / Alkaline Dry cell batteries etc), do not recharge these batteries. Attempting to charge non-rechargeable batteries is dangerous and could cause an explosion. Check to be sure that you have the NiMH batteries installed before connecting the charger.

For safety purposes, C9031 headphone charger can only function with headphone power off. (If you connect the charger when the headphone power is on, it will automatically turn itself off and the batteries will be recharged.)

When the headphone is not in use for a long time period, take out the batteries. Use only the AC to DC adapter included. If you use any other adapter it may damage this product or create a safety hazard. The manufacturer does not assume any responsibility.

SPECIFICATIONS

ITEM	TRANSMITTER	RECEIVER
AC Power into Power adapter	100 - 240V a.c. @ 50 or 60Hz	
Supply Voltage	5Vd.c.	2.4 - 3.0Vd.c.
Current Consumption	90mA (max)	48mA (Typically)
Operating Temperature	-10 ° C - +60 ° C	
Modulation	FHSS	
Channels	4	
Channel Frequencies	2.4 - 2.4835GHz	
Transmitter Power	15dBm (Typically)	
Receiver Sensitivity		-85dBm (Minimum)
Speaker Impedance		32Ω (Typically)
Analogue Input	3.5mm Stereo Phone Jack	
Digital Input	USB	
Battery Type		2 x Regular AAA (Not Included) 2 x Rechargeable AAA (Not Included)
Transmitter Audio Input Level	1Vrms (Maximum)	
Frequency Response	20Hz - 20kHz, -3dB	
Channel Separation	80dB (Typically)	
Audio Latency	3.8ms	
Signal to Noise Ratio	80dB (Minimum)	
Total Harmonic Distortion	0.7% (Maximum)	
Dimensions (mm)	34 x 86.5 x 20	178 x 177 x 60
Weight	35g (Typicaly)	120g (Typicaly)

** Specifications subject to change without notice

Table 1: LED Illuminations and their meanings:

CONDITION	Tx Green	Rx Green	Rx Red
Tx has no d.c. power	Off		Flashing
Tx has d.c. power but no audio	Flashing		Flashing
Tx has d.c. power and audio	On		On
Rx power is off		Off	Off
Rx power is on, but no audio		Off	Flashing
Rx power is on, and audio		Off	On
Rx has low batteries		Slow	Flashing
Rx charging		On	Off
Rx charging complete		Off	Off
Pairing	Flashing	Off	Flashing
Pairing complete	On	Off	On
Ready for use	On	Off	On

TROUBLESHOOTING

No Audio:

- Check if the green LED of the transmitter is on or flashing. If not, check if all connections have been properly made.
- If the green LED is flashing, audio level into the transmitter may be low. Try another audio source.
- Make sure that the power ON/OFF switch on the receiver has been turned on.
- Check if the receiver batteries need to be charged.
- Try pairing the transmitter with the receiver.
- Verify that your computer is configured to give USB audio output.

Audio is distorted:

- Adjust audio output level of PC.
- Check if transmitter USB connector and 3.5mm audio plug are properly connected.

Audio is noisy, drops out intermittently or crackles:

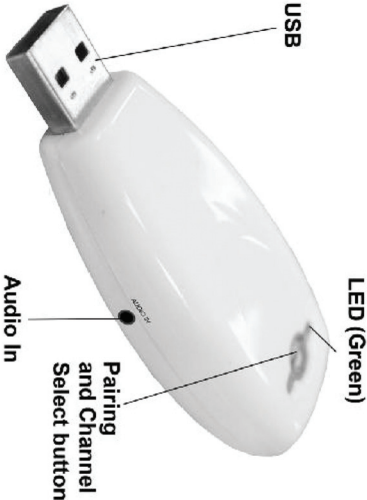
- Adjust audio output level of PC.
- Check if the USB port of the transmitter is properly connected on PC USB port.
- Check if the audio source is noisy.
- If the distance between transmitter and receiver exceeds 30 meters line-of-sight, reduce distance.
- Check if there are big metal obstructions, such as ceiling floors, beams, stairs, office partitions, metal cabinets, metal desks, etc. in the transmission path between transmitter and receiver. Try to avoid any obstruction, if not possible then reduce the distance between transmitter and receiver.
- Try changing RF channel to avoid interference from other electronic devices. WiFi and Bluetooth devices might sometimes interfere.

Inside the Box:

- Headphone receiver
- USB wireless transmitter dongle
- 3.5mm stereo phone to RCA plug audio cable
- USB to 3.5mm DC jack adapter
- Switching power adapter/ charger - AC 50/60Hz, 100-240V, 5V DC output

SETUP AND OPERATION

Figure 1: USB WiFi Transmitter Dongle.



Connect the transmitter USB dongle to the audio source (TV, Computer, etc.). The dongle is able to pair with up to four receiver headsets, but Altronics do not sell headsets separately from the USB dongle or vice versa. (i.e. the two essential pieces are ONLY sold together as a package.)

A. Analog audio source:

1. Plug the 5V DC power adapter into the USB to DC jack adapter provided, and then into the transmitter USB plug.
2. The green LED on the USB dongle will blink. Connect the transmitter to the audio source (TV, DVD, iPod MP3 player etc.) with the provided 3.5mm phone plug to RCA plug audio cable, or with the USB connector.
3. Turn on the audio device (e.g. TV). The green LED on the transmitter will stay on (which means it is ready.)

B. Digital audio source:

1. Connect transmitter USB jack to PC USB port. The transmitter green LED will blink to indicate that it is receiving DC power. The PC system will automatically search out the USB device driver and install it.
2. Make sure your computer is set properly to send sound output to the USB port. If the headphones do not have sound: for PC, go to Start menu - Settings - Control Panel - Sounds and Audio devices - Audio - (sound playback, default device) Advanced - choose either Stereo Headphones or Desktop Stereo Speakers... for Apple, go to System Preferences/Audio and select USB phones.
3. Start the sound source (media player) on your computer. The transmitter green LED will then light steadily to indicate normal connection.

C. Transmitter and Receiver Pairing:

Pairing is a matching of encryption codes. Each set is properly paired at the factory, so that you will probably never have to do it. But if the receiver fails to receive on any channel, do the following:

1. Connect DC power and an audio signal (such as TV) to the transmitter.
2. Press and hold the pairing button on the transmitter for about three seconds. The green LED on the transmitter begins to flash, and you will hear a beeping in the headphones to indicate the transmitter has entered the Pairing mode. It will remain in the Pairing mode for the next 15 seconds.
3. Within this 15 second time period, press and hold the pairing button on the receiver. After about four or five seconds, the red LED on the receiver comes on steadily. Pairing is complete.

Note: If two or more (up to four) receiver headsets are used with the same USB transmitter WiFi dongle, then all receiver headsets should perform step 2 within the same time period (15 seconds).

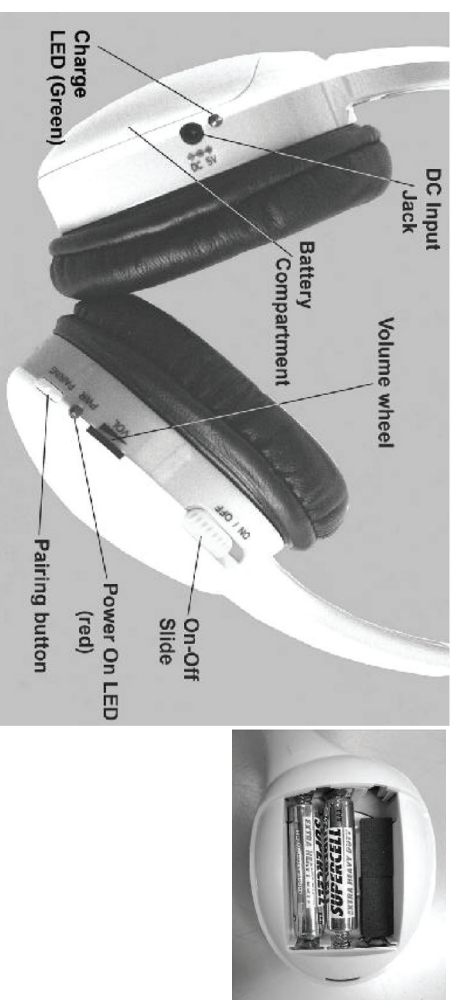
D. Changing RF channel

If you experience interference, you can press the pairing button of the transmitter to change the RF channel. There are four channel frequencies to choose. Every press will advance the unit a new channel, and then cycle back to the first channel frequency.

BATTERY INSTALLATION IN HEADPHONES**A. Regular Battery installation:**

1. Install two AAA batteries (not included) into the battery compartment. Follow the polarity markings in the compartment.
2. Turn the volume control wheel to its middle position before wearing it. Turn on the receiver power.

Figure 2: Headphones diagram and battery compartment.

**B. Recharging Ni-MH batteries with the headphones:**

The headphones have a built-in recharging function. If you want to use Ni-MH batteries (not included), then they will have to be charged before you use them. It will normally take eight to nine hours to fully charge the batteries for the first time. (Note: Ni-MH batteries are normally sold completely discharged.) The charge LED (Green) will start to flash at 30 second intervals to warn of low battery power.

The battery low warning will continue for about 30 minutes before the battery power is too low to operate the device. When the batteries are too low, and must be recharged, the power LED (Red) (Figure-2.) will be flashing, and also you will hear a repeating Deep.

Note: If using non-Ni-MH battery, there is no low-battery power indicator function.

1. Before recharging the batteries, check to make sure that you have Ni-MH batteries installed. **TURN OFF** the headphone. (The headphones cannot be used while charging.)
2. Connect the power adapter/charger to the headphones and then plug the power adapter/charger into an AC power outlet. The green LED will be on while batteries are charging.
3. After charging (about 8–9 Hours, for 900 mAh Ni-MH batteries) the green LED will go OFF. The batteries are fully charged, and the headphones are ready to use.