



User Manual

BW-2400

(Product Name: Sound Plus)



**Soundplus
Upgrade**

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< **Federal Communication Interference Statement** >

- 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 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 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.
- FCC Caution : Any changes or modifications not expressly approved by the party responsible for compliance could void the user' s authority to operate this equipment.
- 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.

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1. The Product Summary

■ Introduction

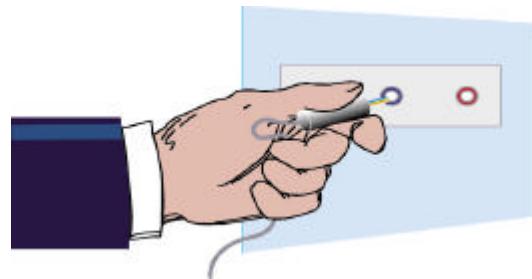
‘Sound Plus’ is a new product that it makes to hear all kinds of sound from the computer through speakers in the Audio systems by using RF (Radio Frequency) system which delivers the sound in FM frequency.

■ Specifications

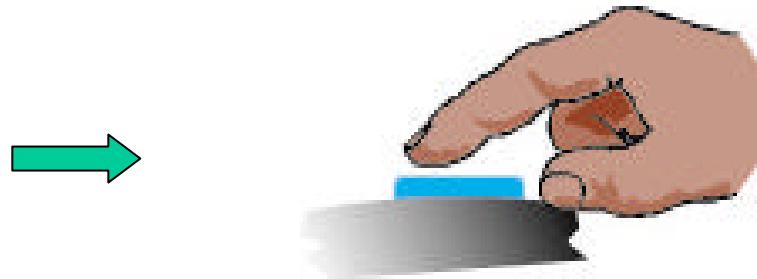
- ▶ Size: 90mm X 60mm X 24mm (t)
- ▶ Power Requirement: 100/200VAC 600HZ
- -Battery: DC9V~17V(Adaptor or Cigar Jack)
- -Operating Temperature: -40 +85
- -Stereo Seperate ratio: 40 dB(MIN)
- -Audio Response: 50Hz 15KHz
- -Pilot(mpx): -10%
- -Output: -31dBm(96 dB μ V)
- -Distance: 4m (MAX 7m)



2. The flow chart of Basic functions



Connect 'Sound Plus' cable to the speaker jack on the PC sound card



Plug in the ' Sound plus' and turn it on



Enjoy the sound amplified through the stereo speakers



Turn on the radio in the stereo system and set to FM

3. The Specialties of the product

- ▶ Eliminating the negative impact of electronic waves by using weak electronic waves
- ▶ Maintaining a constant reception radius of 8M for the perfect sound
- ▶ Delivering 3D Stereo sound through the FM radio frequency
- ▶ Noise removal/blocking function
- ▶ Compatibility: Applicable to any stereo system using the FM radio frequency
- ▶ Applicability: Applicable to other electronic sound systems (etc.,TV, MP3 player, portable cassette players)

4. The perspective of the market

■ The impact on the PC market

Context:

- ▶ The number of MP3 Music users has dramatically increased through the spread of the internet and the PC, but users complain of the sound range limitations of PC speakers and the high cost of portable MP3 players.
- ▶ The current trend in the computer games market shows an increase in 3D Sound and Graphic quality to satisfy the customers' demands.
- ▶ The on-line videos are focusing on the better sound quality as well as the picture.
- ▶ The increase of DVD function in PCs demands a high quality sound system.

In this context, 'Sound-Plus' will enable PC users to enjoy a high quality sound in on-line videos, games, MP3s, and DVD videos on their PCs and it will further encourage the PC market. 'Sound-Plus' also enables PC users to listen the sound through portable cassette players without a MP3 player, thus the MP3 market will also expand.

4. The perspective of the market

■ The impact on the TV market

Context:

With the increase of video viewing at home, creating a ‘Home Theater’ is becoming a popular demand for many people. Since the 1990s, the ‘Home Theater’ industry has been in a big trend in the U.S.A and Europe market with big brand stereo company involvement. Due to the high cost of installation, this demand can only be realized by a chosen market of high income consumers.

In this context, connecting ‘Sound-Plus’ to their TVs, people can enjoy ‘Home-theater’ at a very low cost. The ‘Sound-Plus’ will have more positive impact on the TV market with its own unique function.

4. The perspective of the market

■ Other Markets

- ▶ MP3 and other portable music player markets: Currently MP3 portable players can only deliver the sound through ear-phones, but by connecting ‘Sound Plus’ to MP3 players or other portable music players, people can enjoy a high quality sound through the stereo system speakers.
- ▶ Notebook / Laptop computer market: One of the weaknesses of current Notebook is that it can not provide good quality sound regardless of its price range. By connecting ‘Sound Plus’ to Notebook, people can also enjoy 3D Stereo sound.

5. Application

■ Application



MP3 player



TV

Cassette, CD player



Computer



SOUND PLUS

It makes to hear all kinds of sound from the computer, MP3player and TV etc through the speakers in the Audio System built in FM Radio



Sound Extension