

# **Exhibit E**

# **User's Manual**

**BRIGHT HEADPHONE**

**ELECTRONICS CO.**

**FCC ID.: IERC1989**

**Wireless Stereo Center Speaker  
System(Rx)**



**BRIGHT HEADPHONE ELECTRONICS CO.**  
**2ND FL. NO. 8 &10, LANE 337, YUNG HO ROAD, CHUNG HO CITY, TAIWAN, R.O.C.**  
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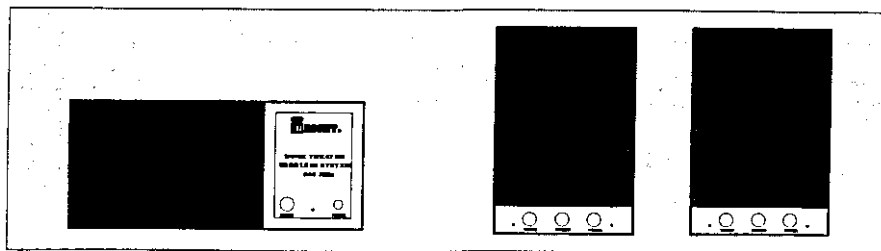
## High Frequency 900MHz WIRELESS STEREO CENTER SPEAKER SYSTEM

CONGRATULATIONS! You now own a top-quality Bright product-thoroughly tested to be certain it meets our own exacting quality control standards. The Bright 900 MHz Wireless Stereo Center Speaker System is one of the most innovative new products on the market today.

Please take a few moments to review the following important information before using these items.  
Thank you!

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Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## OVERVIEW

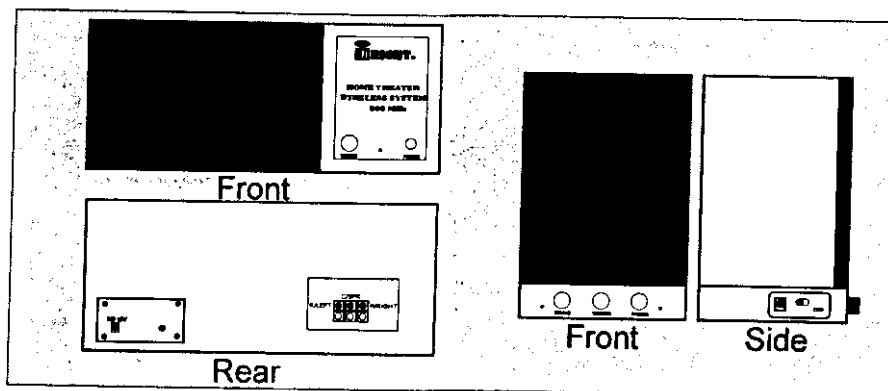
The High Frequency Wireless Stereo Center Speaker System uses the latest 900MHz wireless technology to enable you to enjoy music and TV sound anywhere inside or outside your home (speakers are not weather resistant). You can simply connect the supplied transmitter to any sound source such as a stereo, CD player, TV, etc, through either an audio line output jack or headphone jack. This speaker system is easy to set up anywhere you want, without running speaker wires. It provides you with a perfect solution to surround sound and ultimate listening freedom.

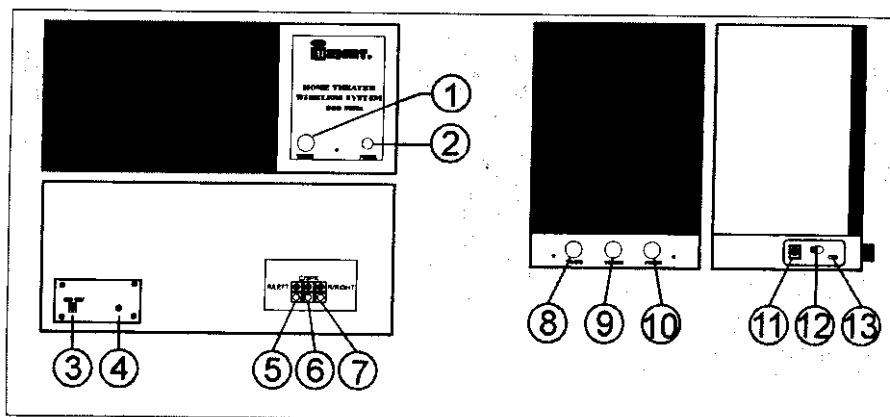
### Features:

1. The system, using high frequency radio waves, broadcasts the signal approximately 180 feet - through walls, floors, glass and ceilings.
2. This speaker system delivers true stereo sound and is not subject to distortion and interference from magnetic field created by surrounding appliances.
3. Any number of wireless speakers and headphones can be operated from a single 900MHz transmitter.
4. The speaker is equipped with a three-step switch (L-MONO-R).

## PACKAGE CONTENTS

Wireless Stereo Center Speakers





- |               |                         |                            |
|---------------|-------------------------|----------------------------|
| ① Tuner       | ⑧ Tuner                 | ⑫ L/MO/R Three-step Switch |
| ② Power       | ⑨ Volume                | ⑬ Recharge Switch          |
| ③ DC 18V      | ⑩ Power                 |                            |
| ④ Transmitter | ⑪ DC input              |                            |
| ⑤ R/LEFT      | # Only use the supplied |                            |
| ⑥ C/SPK       | AC power adapter        |                            |
| ⑦ R/RIGHT     | ( DC9V/500mA )          |                            |

## Accessories

1. Connecting cord  
Stereo jack to 2  
RCA plug (1)



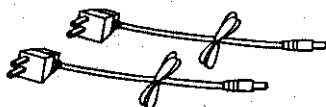
2. Stereo mini-jack  
3.5mm cable(1)



3. AC adapter for transmitter  
DC 18V/1 00mA(1)



4. AC adapters for speakers  
12V - 1000mA(2)

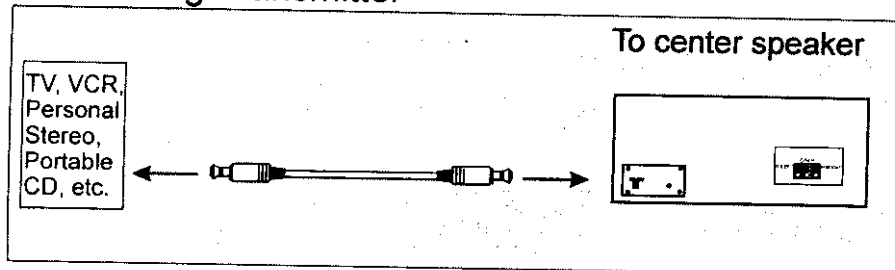


5. Headphone jack adapter  
6.3mm to 3.5mm

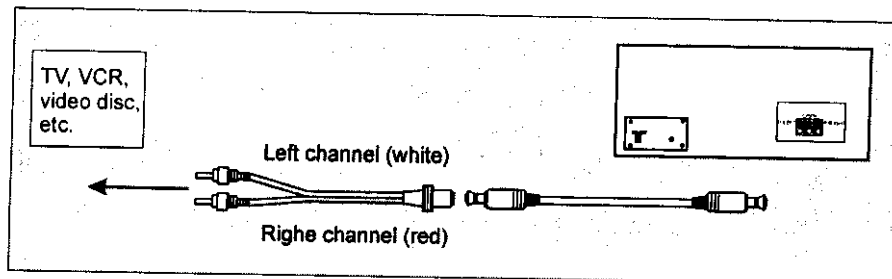


## INSTALLATION

### Connecting Transmitter



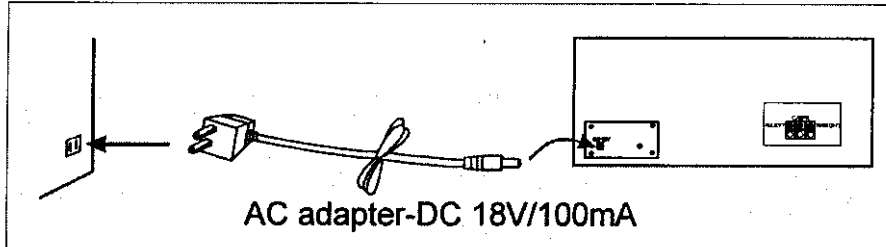
1. Use the supplied stereo mini-jack 3.5mm cable.
2. Plug one end into the AV unit's Line Out or mini-jack input.
3. Plug the other end into the transmitter input.



1. Use the supplied stereo mini-jack 3.5 mm cable.
2. Plug one end into the input of the transmitter.
3. Plug the other end into the jack of the RCA connecting cord.
4. Plug the two RCA plugs into the left and right outputs of the AV equipment.
5. Connect with surround audio system. (optional)

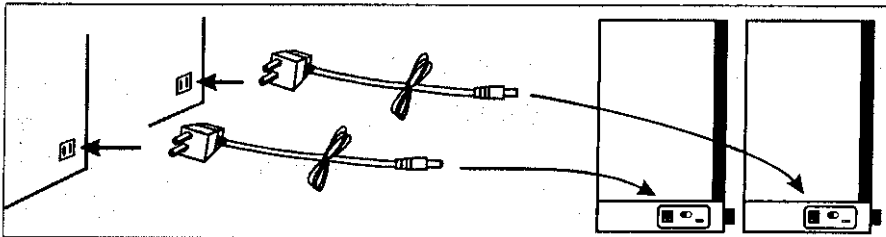
## POWER SOURCE

### Transmitter



1. Connect the supplied AC power adapter to an electrical outlet.
2. Plug the AC power adapter into the DC jack.

### Wireless Stereo Rear Speaker (AC Operation)

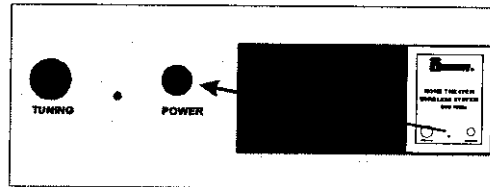


1. Turn the power OFF.
2. Connect the supplied AC power adapters to electrical outlets.
3. Plug the AC power adapters in DC inputs of both speakers.

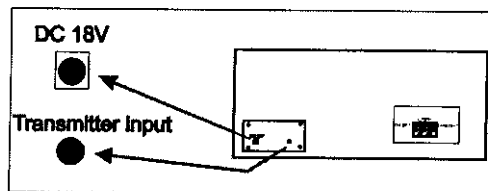
## OPERATING THE SYSTEM

1. Turn on the audio/video equipment connected to the transmitter.

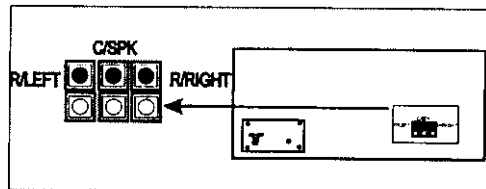
2. Press down the ball switch to turn on the power switch for speakers and adjust volume control on both speakers.



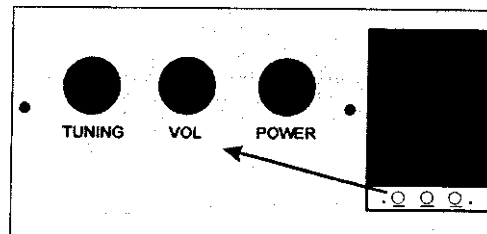
3. Adjust the tuning dial of speaker to the frequency which is same as transmitter's transmission frequency for best reception.



4. Connect with surround sound system (Optional)



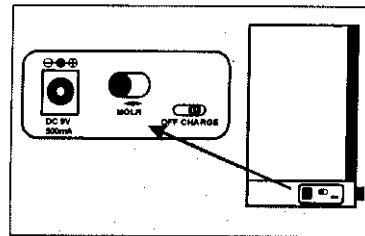
5. Use the three-step switch (L-MONO-R) for choosing your favorite sound effect.





### Automatic Battery Recharging

The speakers will automatically begin the recharging process once the AC power adapter is connected to an electrical outlet. The red LED "Charge" indicator will be illuminated during the recharging process. Normal Rechargeable Period: 16 hours.



### PRECAUTIONS

- Use only a 18V DC 100mA AC adapter for the transmitter.
- Use only the 12V DC 1000mA AC adapters for the speaker system.
- Do not use two transmitters at the same time.
- Other 900 MHz sources may cause interference. If you experience hissing or static, fine tune the frequency on headphones and transmitter.
- Do not open the cabinet. Refer servicing to qualified personnel only.
- Do not leave the system in a location where it is exposed to heat source such as radiators or heating vents, in direct sunlight, or where there is excessive dust, moisture, mechanical vibration or shock.
- Clean cabinets with a damp cloth. Do not use mineral spirits.
- Use rechargeable batteries only.  
non - rechargeable batteries cause leaking and damage to the PC board.

## **SPECIFICATIONS**

### ***SPEAKER***

OPERATING VOLTAGE DC  
SUPPLY: 9V500mA.  
FRQ.RANGE: FM 912MHz  $\pm$  1MHz.  
SENSITIVITY: 48dB  $\mu$   $\pm$  5dB  $\mu$ .  
  
TOTAL HARMONIC DISTORTION  
(THD) STEREO: 0.2% .  
SEPARATION (SEP): 42dB (MAX).  
S/N 70dB (MAX).  
CHANNEL BALANCE:  $\pm$  2dB.  
OUT POWER: 4  $\Omega$  10W.  
  
AUDIO RESPONSE: 50Hz - 15KHz ( $\pm$  3dB).  
OPERATING RANGE: About 160ft.

### ***TRANSMITTER***

OPERATING VOLTAGE DC  
SUPPLY: 18V100mA  
OUTPUT CH: FM 912 MHz  $\pm$  1MHz  
  
A1 INPUT IMPEDANCE: 20K OHM  
A2 INPUT IMPEDANCE: 50K OHM  
CHANNEL BALANCE:  $\pm$ 2 dB  
CHANNEL SEPARATION: 45dB MAX.  
A1 INPUT SIGNAL LEVEL: 0.3V - 2.5V.R.M.S  
A2 INPUT POWER: 1W - 35W.R.M.S

## TROUBLESHOOTING GUIDE

<b>SYMPTOM</b>	<b>CAUSE</b>	<b>SOLUTION</b>
<b>NO SOUND</b>	<p>The AC adapter is not connected to the transmitter and a wall outlet.</p> <p>The connected audio/video equipment is not playing.</p> <p>The volume of the audio/video equipment is completely turned down, activating the automatic shut-off feature.</p> <p>The speaker batteries are exhausted.</p> <p>The speaker is not turned on.</p> <p>The volume of the speaker is turned down.</p>	<p>Connect the AC adapter to the transmitter and wall outlet.</p> <p>Turn on all equipment.</p> <p>Adjust the volume to an appropriate level.</p> <p>Replace the batteries.</p> <p>Turn on the power switch.</p> <p>Adjust the volume to an appropriate level.</p>
<b>MONO SOUND</b>	<p>The audio/video equipment is on the mono mode.</p> <p>Transmitter is not properly connected to the audio/video equipment.</p>	<p>Switch to the stereo mode.</p> <p>Check the connection between the transmitter and the equipment.</p>
<b>HISSING NOISE</b>	<p>Frequency of receiver is not properly positioned.</p> <p>The speaker is too far from the transmitter.</p> <p>The input level of the audio signal is too low.</p> <p>The audio source is noisy.</p> <p>The speaker batteries are exhausted.</p>	<p>Adjust the tuning dial.</p> <p>Move closer.</p> <p>Turn up the volume of the equipment.</p> <p>Check the source.</p> <p>Replace the batteries.</p>
<b>DISTORTED SOUND</b>	<p>The input level of the audio signal is too high.</p> <p>The speaker batteries are exhausted.</p>	<p>Turn down the volume of the equipment.</p> <p>Replace the batteries.</p>

# **FCC APPLICATION FOR CERTIFICATION**

*FOR*

**BRIGHT HEADPHONE ELECTRONICS CO.**

*2ND FL. NO.8&10, LANE 337, YUNG HO ROAD,  
CHUNG HO CITY, TAIPEI HSIEN, TAIWAN, R.O.C.*

**FCC ID.: IERC1989**

*Aug.,1998*

*Submitted to:*

**Federal Communications Commission**

**EQUIPMENT APPROVAL SERVICES**

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