

2.4GHz WIRELESS VIDEO SENDER

User Manual

AWV101 Tx / AWV101 Rx

This equipment has been tested and found to comply with the regulations for a Class B Analog Device, pursuant to section 15 of the FCC Rules. This equipment is 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. Due to the nature of the equipment, 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:

- Rearrange or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to 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.

Notice:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment and place the user in violation of FCC regulations.



CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



**CAUTION: DO NOT REMOVE THE COVER REDUCING THE
RISK OF ELECTRIC SHOCK.**

NO USER-SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING:

Do not expose this product to rain or a damp environment as this may create a risk of fire or electric shock as well as cause damage to this product.

IMPORTANT SAFETY INSTRUCTIONS

1. **Read the Instructions:** All the safety and operating instructions should be read before the product is operated.
2. **Retain Instructions:** The safety and operating instructions should be kept for future reference.
3. **Heed warnings:** All warnings on the product and in the operating instructions should be adhered to.
4. **Follow Instructions:** All operating and use instructions should be followed.
5. **Cleaning:** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. Do not immerse in water.
6. **Attachments:** Do not use attachments not recommended by the product manufacturer as they may create hazardous conditions.
7. **Water and Moisture:** Do not use this product near water—for example, do not use: near a bath tub; wash bowl; kitchen sink; laundry tub; in a wet basement; near a swimming pool; and the like.

8. **Accessories:** Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
9. A product and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the product and cart combination overturn.
10. **Ventilation:** Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided and the manufacturer's instructions have been adhered to.
11. **Power Sources:** This product should be operated only with the type of power source (i.e. voltage) indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your product dealer or local Power Company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
12. **Power-Cord protection:** Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
13. **Lightning:** For added protection for this product during electrical storms, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning or power-line surges.
14. **Overloading:** Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
15. **Object and Liquid Entry:** Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
16. **Servicing:** Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all repair or other service to qualified service personnel.
17. **Damage Requiring Service:** Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- If the power-supply cord or plug is damaged.
- If liquid has been spilled/upon, or objects have fallen into, the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally when following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or damaged in any way, and
- When the product exhibits a distinct change in performance, as this indicates a need for service.

18. Heat: The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products that produce heat, including amplifiers, electric lights and open fireplaces. Avoid direct sunlight.

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Introduction to the Video Sender

Video Sonic applies advanced 2.4GHz RF wireless technology to offer users the ability to link all kinds of Audio and Video sources to TVs, Monitors, and Personal Computers without wires or cables. The Video Sender is easy to completely install within minutes. This plug-and play feature helps you to expand your freedom in your home entertainment and enhance your home security.

Applications

- Works as the wireless remote unit for expensive A/V equipment such as IRD & DVD
- May be used as part of a wireless security system.
- Can be used as a baby sitter to watch your baby constantly from anywhere in your home.
- Monitor and record a meeting from another room.
- Use multiple receivers for broadcasting to numerous TV sets in other rooms.
- Applicable to data transmission (optional function).

Features

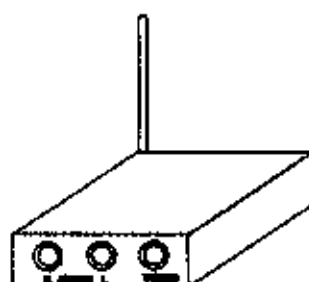
- 4 selectable channels help prevent any interference and allow operation of 4 pairs of Video Senders simultaneously.
- Easy <plug and play> installation within minutes.
- Works with all kinds of Audio and Video equipment in your home.
- Penetrates walls, floors and ceilings without damaging your home.
- Crystal - clear Audio and Video signals.

List of Contents

The following devices should be included in the box. Please check that you have them all before installation.

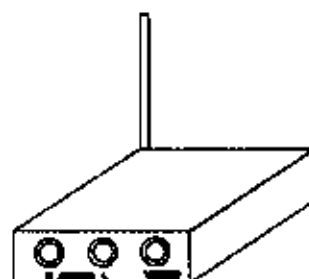
A. One Transmitter (AWV101 TX)

The Transmitter emits Audio and Video signals over a 2.4GHz radio frequency carrier.



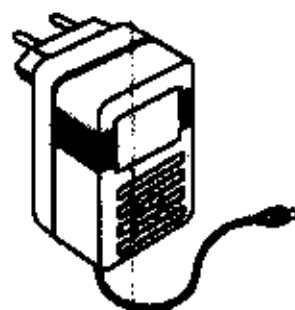
B. One Receiver (AWV101 RX)

The Receiver receives 2.4GHz wireless Audio and Video signals from the Transmitter.



C. Two power adapters

These power adapters supply a + 9V - + 12V DC power to the Transmitter and the Receiver.



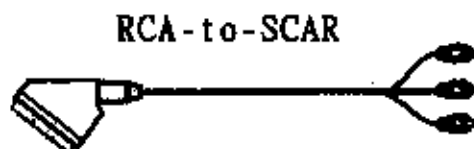
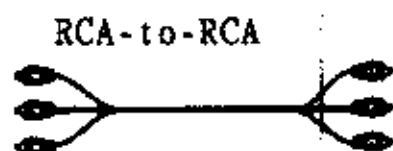
**+12V / 500mA
(For AWV101 TX)**



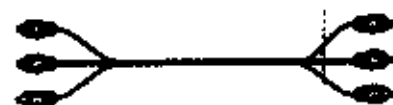
**+9V / 300mA
(For AWV101 RX)**

D. Two Audio/Video (A/V) cables

These two cables are used to connect the Transmitter or the Receiver to your A/V devices.



Transmitter: connect the Transmitter to your A/V source



Receiver: connect the Receiver to your TV, Monitor or other A/V source.

E. DC out Power Line

(Optional for connecting the external CCD camera)

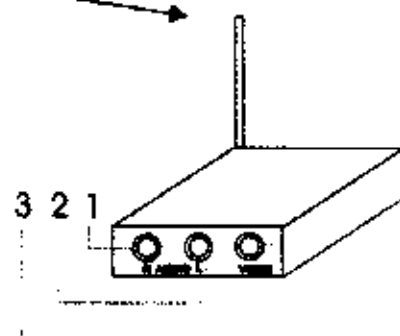


Controls and Features

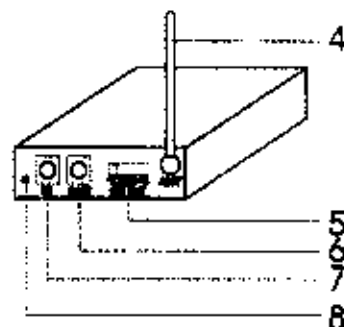
The Transmitter and the Receiver look alike. You can distinguish them through the logo on the units.

The 2.4 Ghz dipole antenna can be rotated over an angular range of about 300 degrees.

(Do not force it to rotate beyond its angular range limits otherwise it will cause permanent damage to both antenna and mechanical stopper.)



1. Right Audio jack (red)
2. Left Audio jack (white)
3. Video jack (yellow)
4. Dipole antenna
5. Channel select
6. DC 9V~12V power output for CCD Camera (AWV101 Transmitter)
7. DC 9V~12V power input adapter plug.
8. Power indicator



Installation

Setting up the Video Sender is extremely easy. It takes only a few minutes to connect the Transmitter to the A/V sources you want to view or hear at another location, and then connect the Receiver to the TV set, monitors and speakers located at your site.

Turning on the power switches of the Transmitter and the Receiver, you are ready to enjoy the A/V signals via wireless technology.

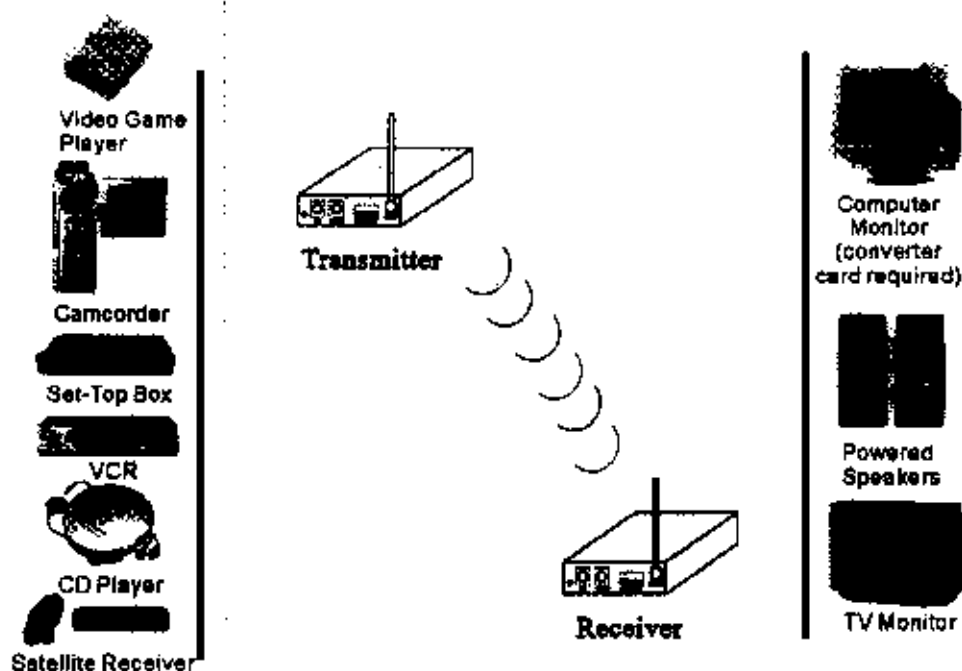
The Video Sender is suitable for all kinds of A/V sources and displays with standard RCA output connectors. For A/V equipment with different output connectors, such as SCART, the optional adapters are available upon request. Hereinafter, we define the A/V sources and the A/V Display Units as follows:

Possible A/V sources are:

VCR
TV set
Digital / Analogue Satellite Receivers
Laser Disc Play
CD Player
Camcorder
Security Camera
Computer
Wireless Cable Box
Cassette Deck
Stereo Receiver

The A/V Display Units are:

TV set
Monitor
Speakers



Connecting the Transmitter to the A/V sources

Before connecting the Video Sender Transmitter, make sure the ON/OFF switch is in the OFF position. Connect one set of A/V cables to the A/V jacks of the Transmitter and the A/V jacks on the A/V output of the A/V sources. There are three colors for the connectors of the A/V cables. Make sure the yellow, white and red plugs match the yellow, white and red jacks on both the Transmitter and the A/V sources.

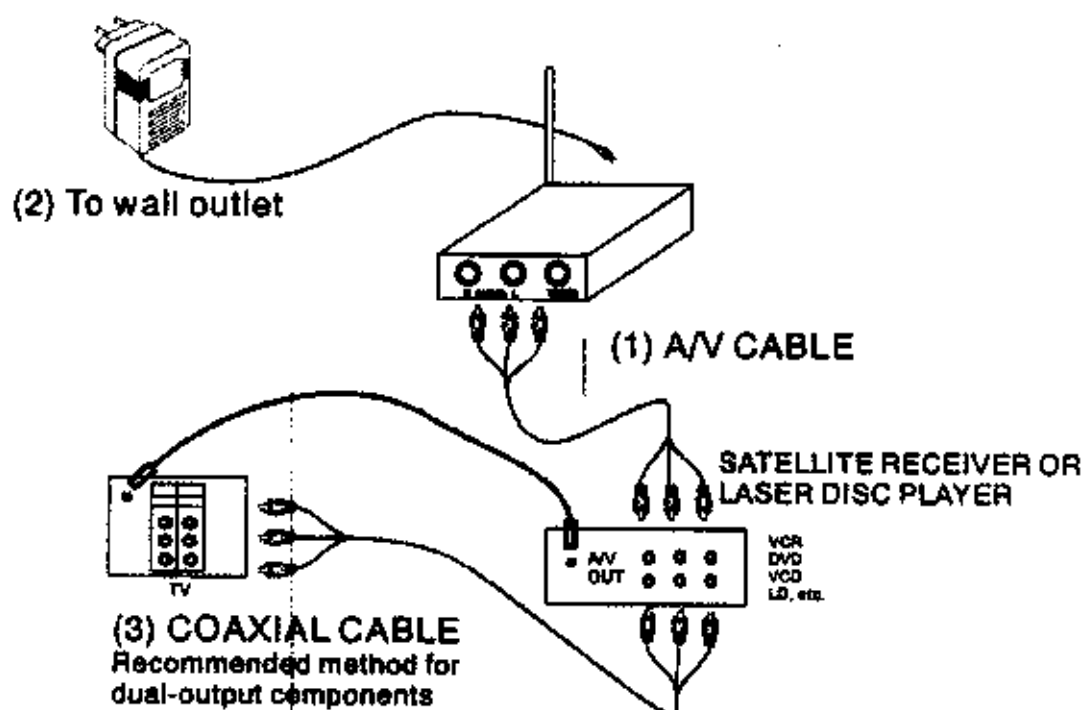
Before plugging the power adapter into the Video Sender Transmitter, make sure the power rating matches the power standard of your country. For example, Italy uses 220V and you should have two power adapters with an A/C power rating of 230V/AC. After plugging the power adapter into the Video Sender Transmitter and the wall outlet as shown below, turn the ON/OFF switch to the ON position and check to be sure the Power ON/OFF indicator light is lit.

To optimize the performance of Video Sonic Transmitter, you may need to orient the antenna of the Video Sonic. Please refer to the section of this manual titled "Orienting Unit/Antenna for Optimizing Performance".

A. How to send Audio/Video from your Satellite Receiver or Laser Disc Player

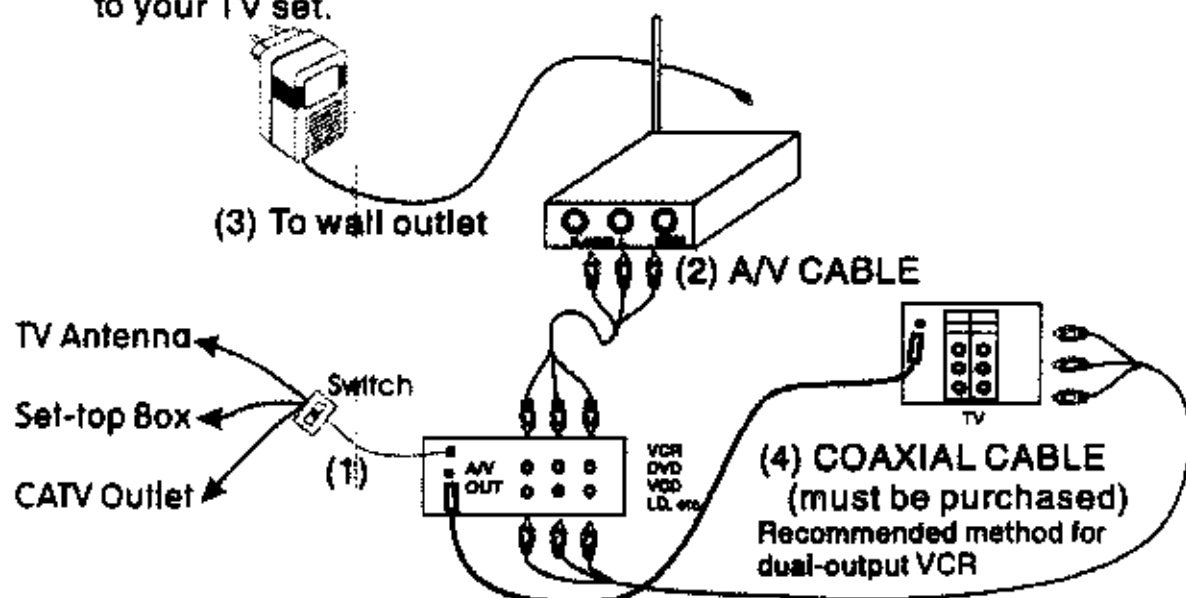
You can send Audio/Video either directly from your Satellite Receiver or Laser Disc Player, or connect them to your VCR. To send directly from your Satellite Receiver or Laser Disc Player, follow the instructions below.

1. Use the A/V cable to connect A/V OUT from your Satellite Receiver or Laser Player to A/V IN on the Transmitter. Be sure to match Audio (R&L) and Video jacks on both the VCR and Transmitter correctly.
2. Plug the DC adapter into a wall AC power line outlet.
3. You may use coaxial cable to connect the coaxial OUT on the Satellite Receiver or Laser Disc Player to VHF/UHF IN on a nearby TV set. If there are two lines out on your receiver or player, you can connect the other line out to your TV set.



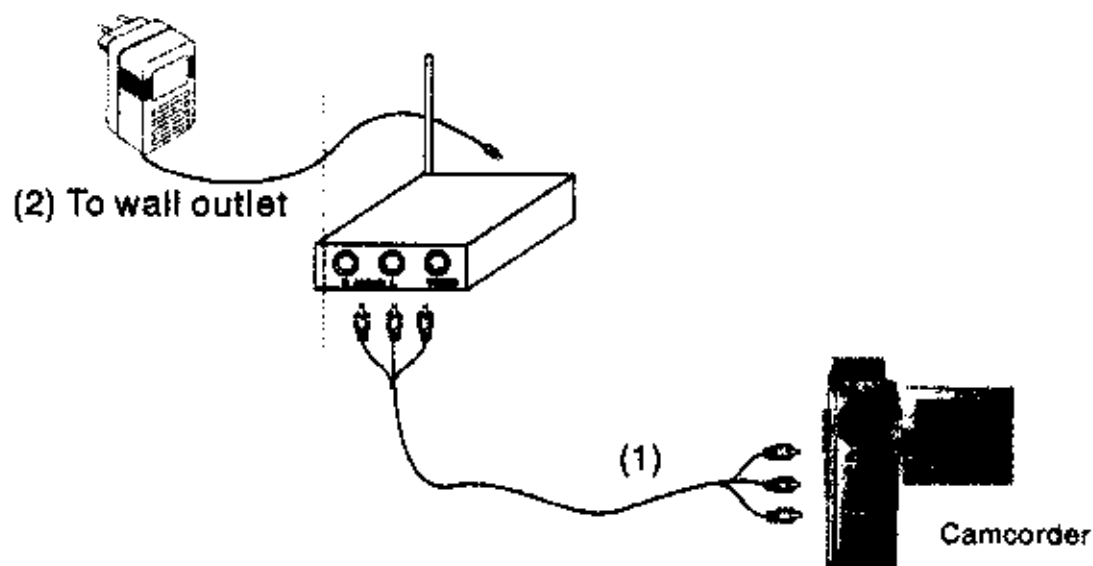
B. How to send Audio / Video from your VCR or DVD

1. Connect the coaxial IN, CATV IN or VHF/UHF IN on your VCR to the TV antenna, coaxial OUT of the TV Set-top Box or the CATV coaxial outlet.
2. Use A/V cable connect A/V OUT from your VCR to A/V IN on the Transmitter. Be sure to match Audio (R&L) and Video jacks on both VCR and Transmitter correctly.
3. Plug the DC adapter into a wall AC power line outlet.
4. You may use coaxial cable to connect the coaxial OUT of your VCR to the VHF/UHF IN or CATV IN on a nearby TV set. If there are two lines out on your VCR, you can connect the other line out to your TV set.



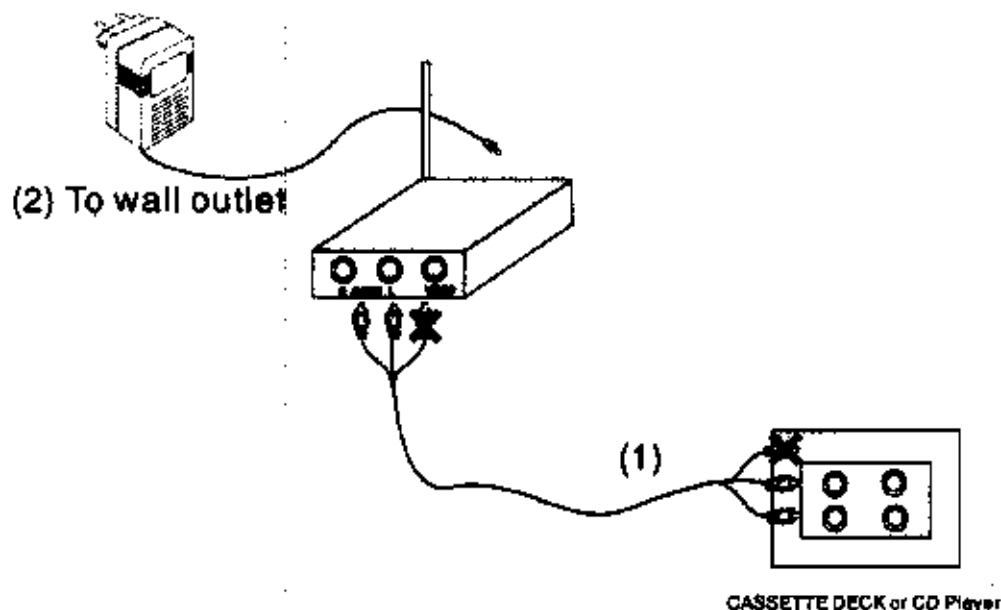
C. How to connect the Transmitter to your Camcorder

1. Use A/V cable to connect A/V OUT on your camcorder to A/V IN on the Transmitter.
2. Plug the DC adapter into a wall AC power line outlet.



D. How to send Audio from your CD Player or Cassette Deck

1. Use A/V cable to connect A/V OUT on your CD Player or Cassette Deck to A/V IN on the Transmitter.
2. Plug the DC adapter into a wall AC power line outlet.



Connecting the Receiver to the A/V display Units

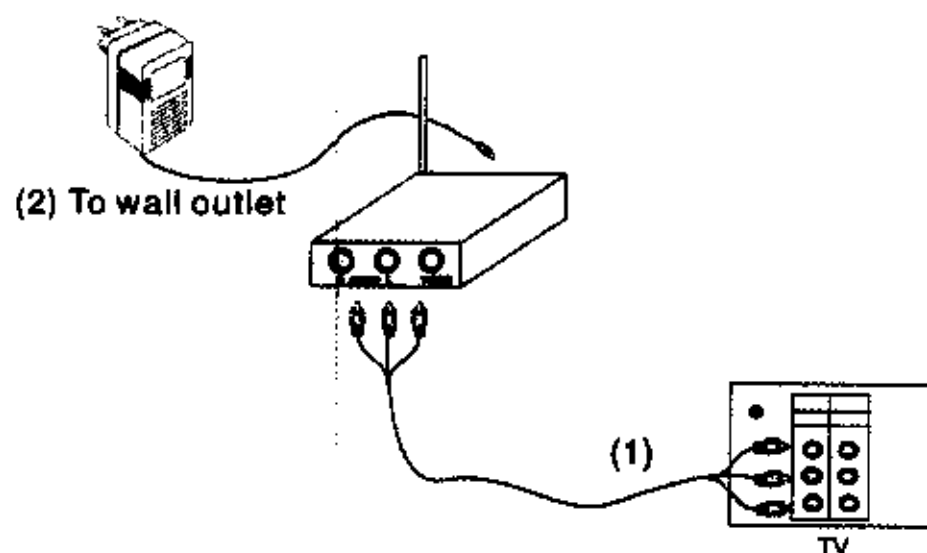
Before connecting the Video Receiver, make sure the ON/OFF switch is in the OFF position. Connect one set of A/V cables to the A/V jacks of the Receiver and to the A/V jacks on the A/V input of the A/V Display Units. There are three colors for the connectors of A/C cables. Make sure the yellow, white and red plugs match the yellow, white and red jacks on both the transmitter and the A/V sources correctly.

Before plugging the power adapter into the Video Receiver, make sure the power rating matches the power standard of your country. For example, Italy uses 220V and you should have two power adapters with an A/C power rating of 230V/AC. After plugging the power adapter into the Video Receiver and the wall outlet as shown, turn the ON/OFF switch to the ON position and check to be sure the Power ON/OFF indicator light is lit.

To optimize the performance of Video Sonic Transmitter, you may need to orient the antenna of the Video Sonic Receiver. Please refer to the section of this manual titled "Orienting Unit/Antenna for Optimizing Performance."

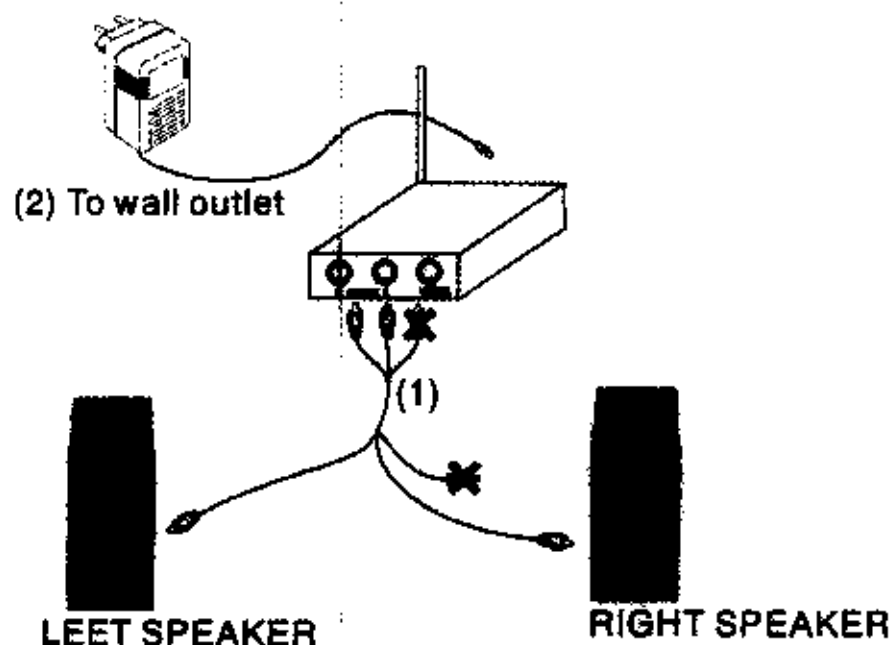
A. How to connect the Receiver to your TV

1. Use A/V cable to connect A/V OUT from the Receiver to A/V IN on your TV. Be sure to match Audio (R&L) and Video jacks on both the Receiver and TV correctly.
2. Plug the DC adapter into a wall A/C power line outlet.



B. How to receive Audio on a Remote Speaker

1. Use A/V cable to connect A/V OUT on the Receiver to A/V IN on your speaker. Be sure to match Audio (R&L) and Video jacks on both the Receiver and TV correctly.
2. Plug the DC adapter into a wall A/C power line outlet.



Trouble Shooting

Please read this user manual carefully before using the Video Sender. If you have any difficulties using the Video Sender, consult the following checklist, which will guide you in solving most common problems.

A. No picture or sound

1. Check the audio and video sources (TV, VCR, LD Player, Satellite Receiver, etc.)
2. Make sure all cables are connected correctly.
3. Make sure the channel selections on the Transmitter and Receiver match each other.

B. Interruption in image and sound

1. Adjust the Receiver antenna.
2. Adjust the Transmitter antenna direction.
3. If there is a microwave oven close by, please turn the microwave oven off.
4. Change to a different channel to avoid interference from other devices.

Care and Maintenance

Clean the plastic casings gently with a soft cloth. Do not use a moist or damp cloth as this may damage the Video Sender. Abrasive powders or solvents should not be applied to the Video Sender.

Specification

Transmitter:

1. Frequency : 2.4GHz - 2.4835GHz
2. Channel : 4 selectable channels
3. Modulation : FM
- Input level : Video - 1 Vp-p (NTSC/PAL)
Audio - 1 Vp-p (NTSC) / 3Vp-p (PAL)
- Impedance : Video - 75 ohms
Audio - 600 ohms (NTSC) / 10K ohms (PAL)
4. Input port : A/V jack - RCA to RCA line jacks
A/V jack - RCA to SCART line jacks (optional)
5. Antenna : Dipole antenna
6. Power supply : DC 12V/500mA power adapter

Receiver

1. Frequency : 2.4 GHz - 2.4835 Ghz
2. Channel : 4 selectable channels
3. Output port : A/V jack - RCA to RCA line jacks
A/V jack - RCA to SCART line jacks (optional)
4. Antenna : Dipole antenna
5. Power supply : DC 9V/300mA power adapter