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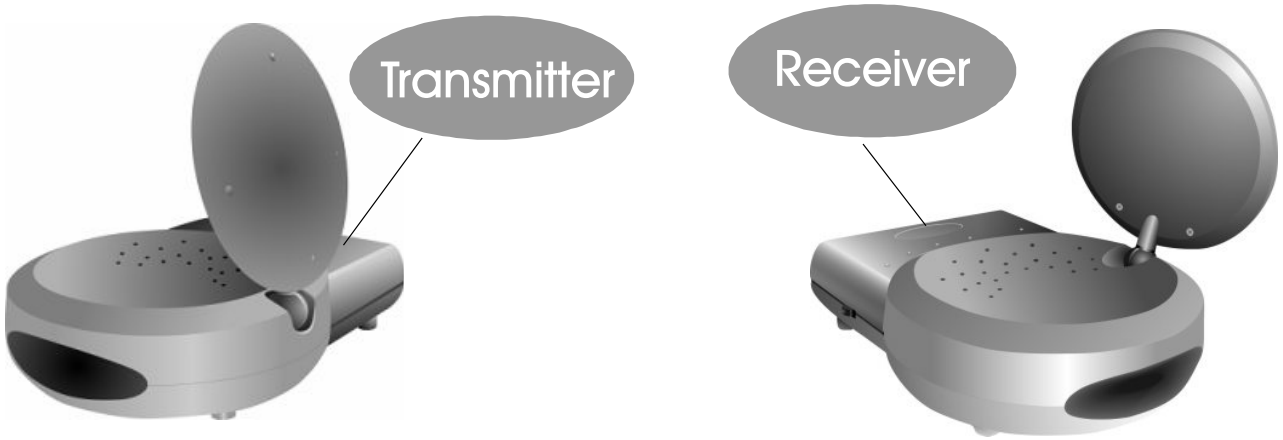
What You Get

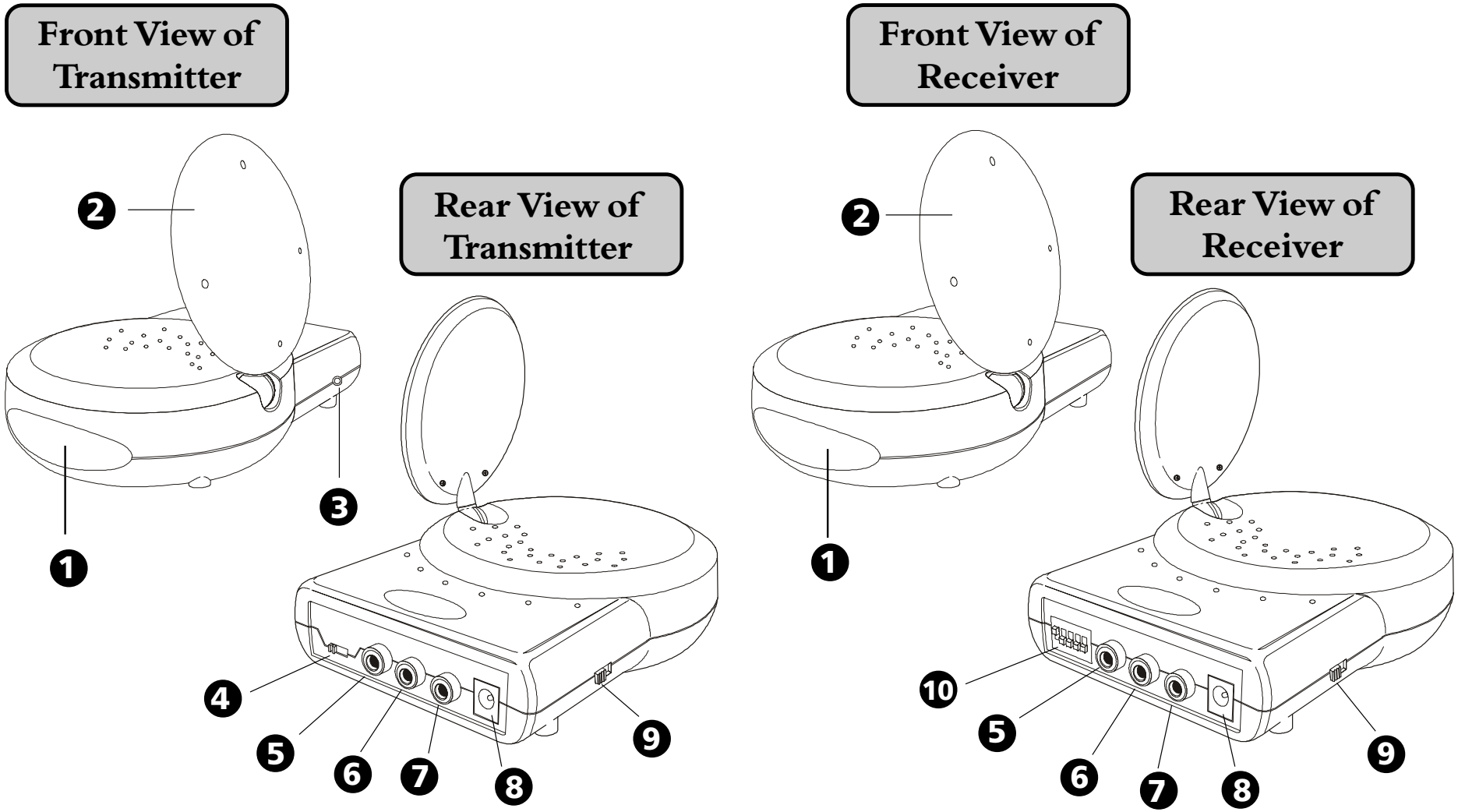
The transmitter and receiver look virtually alike. You can find Transmitter and Receiver on the nameplate of each unit.



- One Transmitter
- One Receiver
- One Infrared (IR) Emitter
- Two Audio/Video Cables (RCA to RCA cables for NTSC or RCA to Scart cables for PAL)
- Two Power Adapters
- Fastener Strip (for fixing the IR Emitter)
- One Quick Installation Guide
- This User's Manual

Product Layout

Front View of Transmitter/Receiver



Product Layout

❶ **Power Indicator LED**
The LED should be lit when the ON/OFF switch is in the ON position..

❷ **2.4GHz Audio/Video Antenna (Front)**
Transmits and receives Audio/Video signals. *Caution: Antenna does not rotate freely 360 degrees. (See "Orienting Units for Optimal Performance", on page 15)*

❸ **IR Emitter Port**

❹ **Channel Selection Switch**
Select the channel by sliding the slide switch to the channel number you want.
Must select the same channel both on transmitter and receiver.

❺ **Left Audio Jack (White)**

❻ **Right Audio Jack (Red)**

❼ **Video Jack (Yellow)**

❽ **9V Power Adapter Plug**

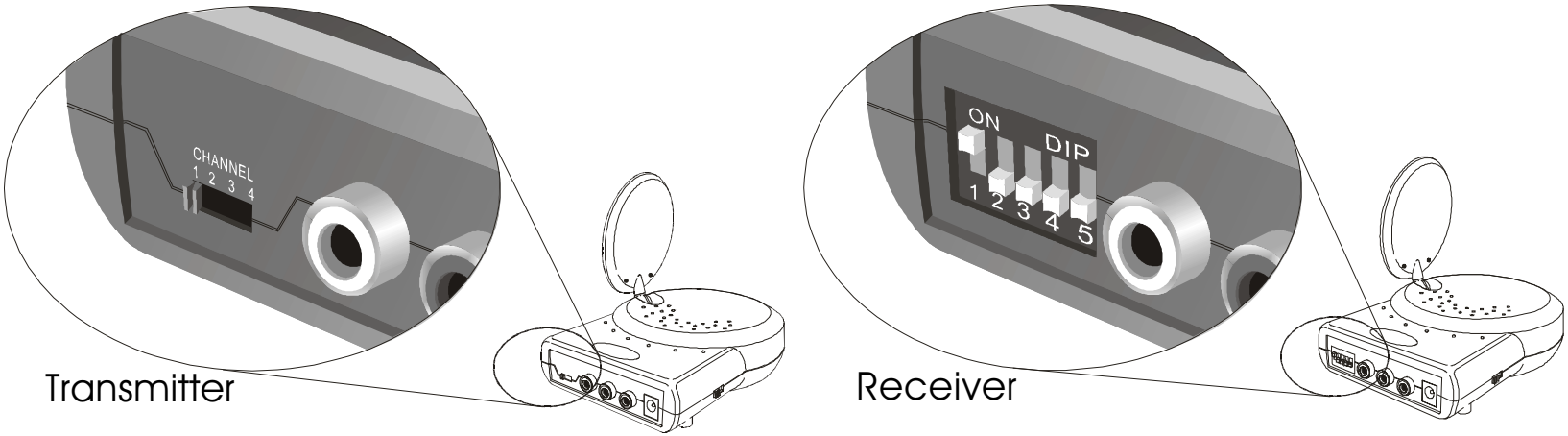
❾ **ON/OFF Switch**

❿ **Channel Selection Dipswitches**
Select the channel by setting the channel dipswitch to the ON position. The number 5 dipswitch sets the timer for the auto-sequence function (see "Auto-Sequence Function for Multiple Location Monitoring", on page 16).
Must select the same channel both on transmitter and receiver.

Setting Up

Before you make the connection:

- Always make sure the unit ON/OFF switch is in the OFF position.
- Set the channel switches on the back of the transmitter and receiver to the same channel.



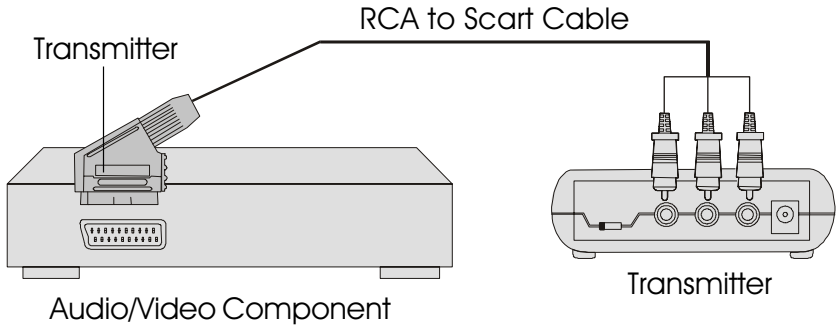
- Depending on the type of TV you own and the component audio/video system (VCR, DVD player, satellite receiver, LD player etc.), connection methods will be different. We recommend you refer to the connected audio/video component's user's manual for details, then make connections according to the following steps.

Connecting the Transmitter to an Audio/Video Component

1. Connect one set of audio/video cables to the audio/video jacks of the transmitter, matching the plug colors with the jacks on the transmitter.

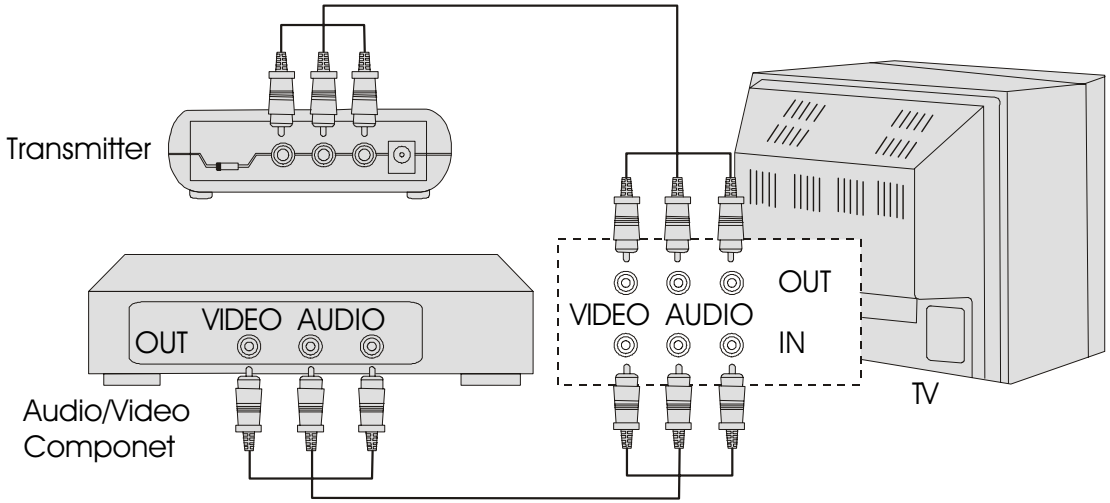
2. Connect the other end of the cable to the audio/video jacks on the audio/video component labeled LINE OUT, matching the plug colors with the jacks on the audio/video component. Some connection scenarios are shown on the next page.

   Note: For PAL systems, the connector on the audio/video component is a Scart socket. Connect the Scart connector labeled TRANSMITTER to the Scart socket labeled OUT on the audio/video component; connect the RCA connector to the transmitter.

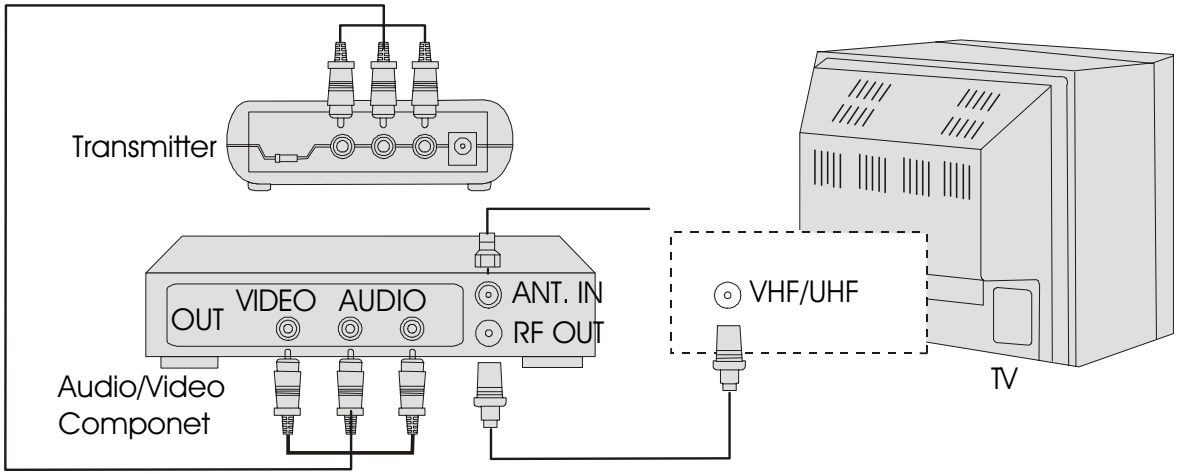


Setting Up-Transmitter

Connecting to a TV with Audio/Video Out Jacks



Connecting to a TV without Audio/Video Out Jacks



Note:

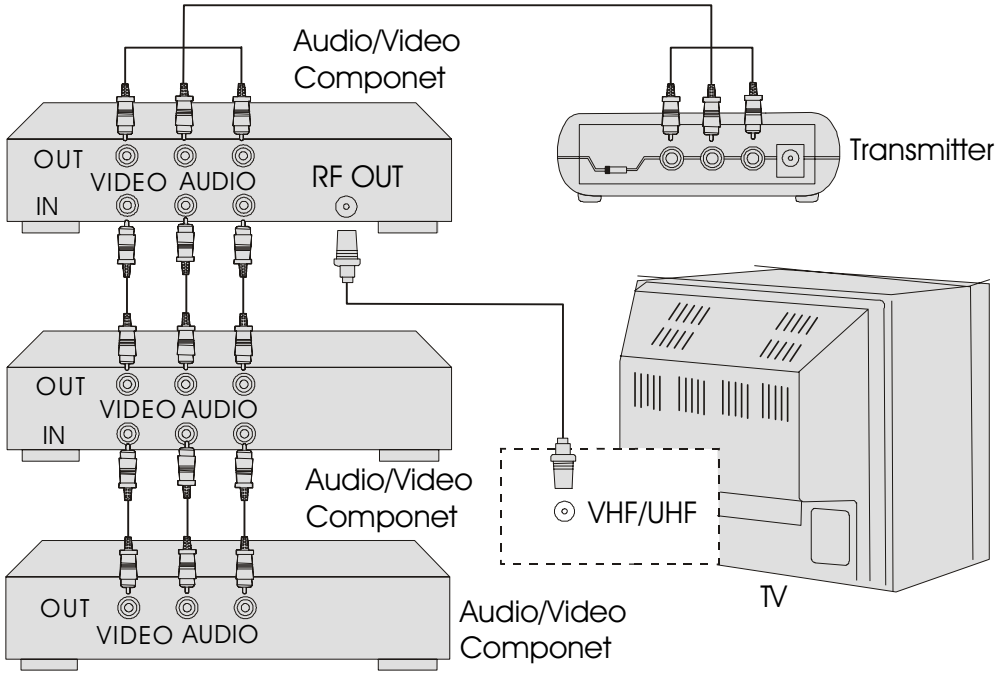
If the audio/video component has only one output for audio (mono sound only), connect the white plug to that single audio output and to the transmitter's AUDIO LEFT jack.

If the jacks on the audio/video component are colored differently, connect the yellow plug to the jack labeled VIDEO, the red plug to the jack labeled AUDIO RIGHT, and the white plug to the jack labeled AUDIO LEFT.

Connecting to Multiple Audio/Video Components

To use the Wireless Audio/Video Sender for two or more audio/vidoe component, first identify the last component in the chain and connect its LINE OUT jacks to the transmitter.

If the final component of the chain does not have spare LINE OUT jacks, use coaxial cable to connect the VHF/UHF jacks on the TV and the last component. Then connect the transmitter to the last compontnt's LINE OUT jacks.



3 Plug one end of the provided power adapter into a wall outlet and the other end into the rear of the transmitter.

4 Turn the ON/OFF switch to the ON positon. The LED on the front of the unit should light.

5 Place the transmitter in a convenient location, then adjust its antenna so that the front (curved face) faces the room where the receiver is set up. See "Orienting Units for Optimal Performance", on page 15).

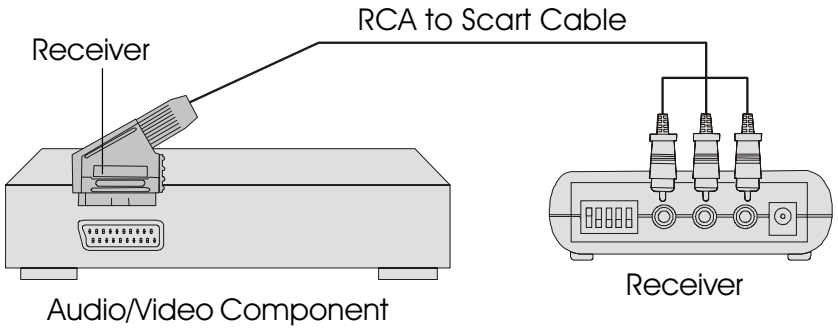
Setting Up-Receiver

Connecting the Receiver to a TV

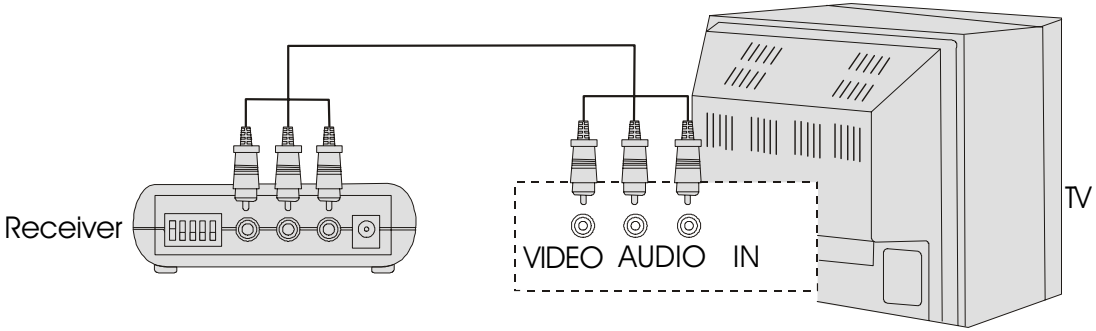
1. Connect one set of audio/video cables to the audio/video jacks of the receiver, matching the plug colors with the jacks on the receiver.

2. Connect the other end of the cable to the audio/video jacks on the TV labeled LINE IN, matching the plug colors with the jacks on the TV. Some connection scenarios are shown on the next page.

Note: For PAL systems, the connector on the audio/video component is a Scart socket. Connect the Scart connector labeled RECEIVER to the Scart socket labeled IN on the audio/video component; connect the RCA connector to the receiver.

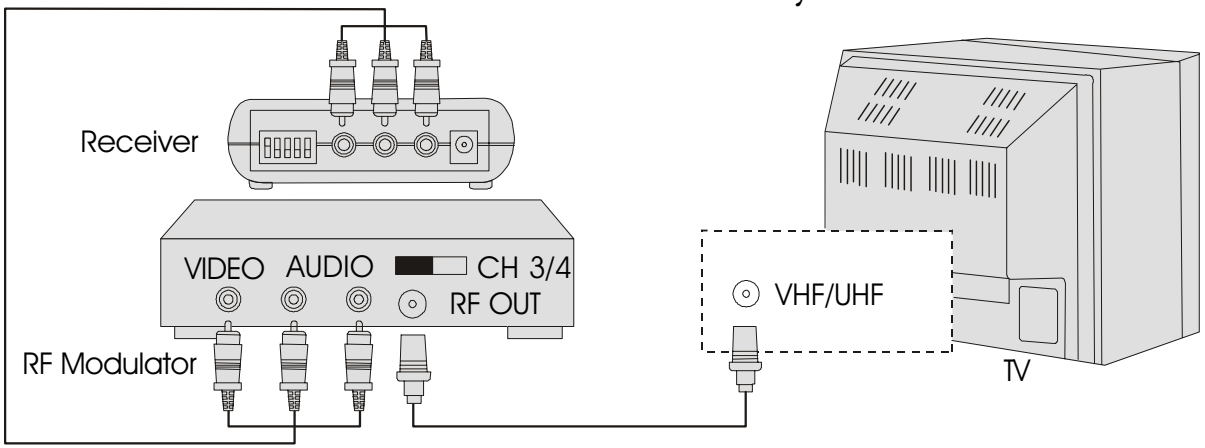


Connecting to a TV With an Audio/Video Component



Connecting to a TV Without Audio/Video IN Jacks

If your TV has UHF/VHF input only, and there is no audio/video equipment near your TV, you will need to get an RF-Modulator (available at your local electronic store) to convert the RCA jacks to coax. Then select either channel 3 or 4 on your TV to view the video.



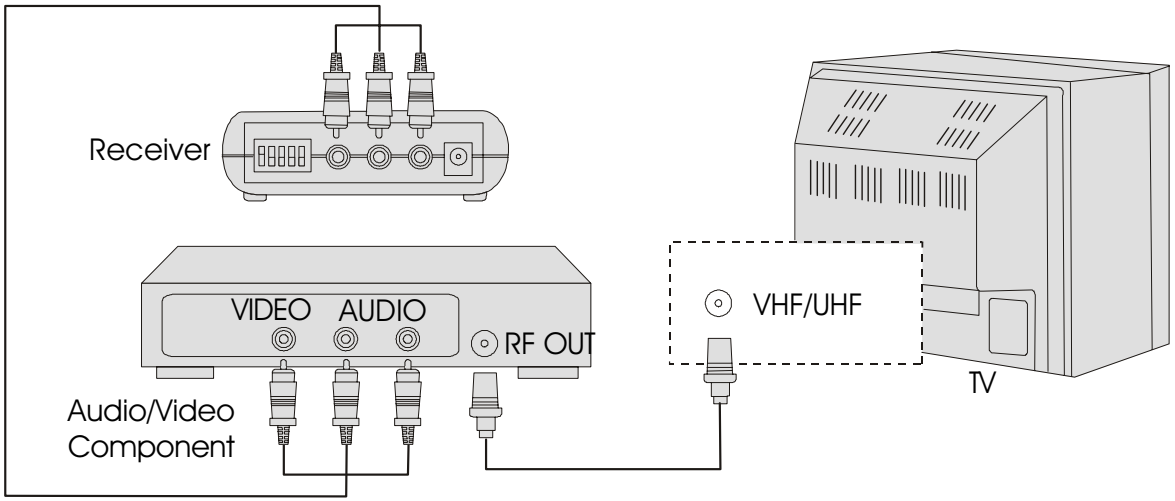
Note:

If the TV has only one input for audio (mono sound only), connect the white plug to that single audio input and to the receiver's AUDIO LEFT jack.

If the jacks on the TV are colored differently, connect the yellow plug to the jack labeled Video, the red plug to the jack labeled AUDIO RIGHT, and the white plug to the jack labeled AUDIO LEFT.

Setting Up-Receiver

Connecting to a TV With an Audio/Video Component



3 Plug one end of the provided power adapter into a wall outlet and the other end into the rear of the receiver.

4 Turn the ON/OFF switch to the ON position. The LED on the front of the unit should light.

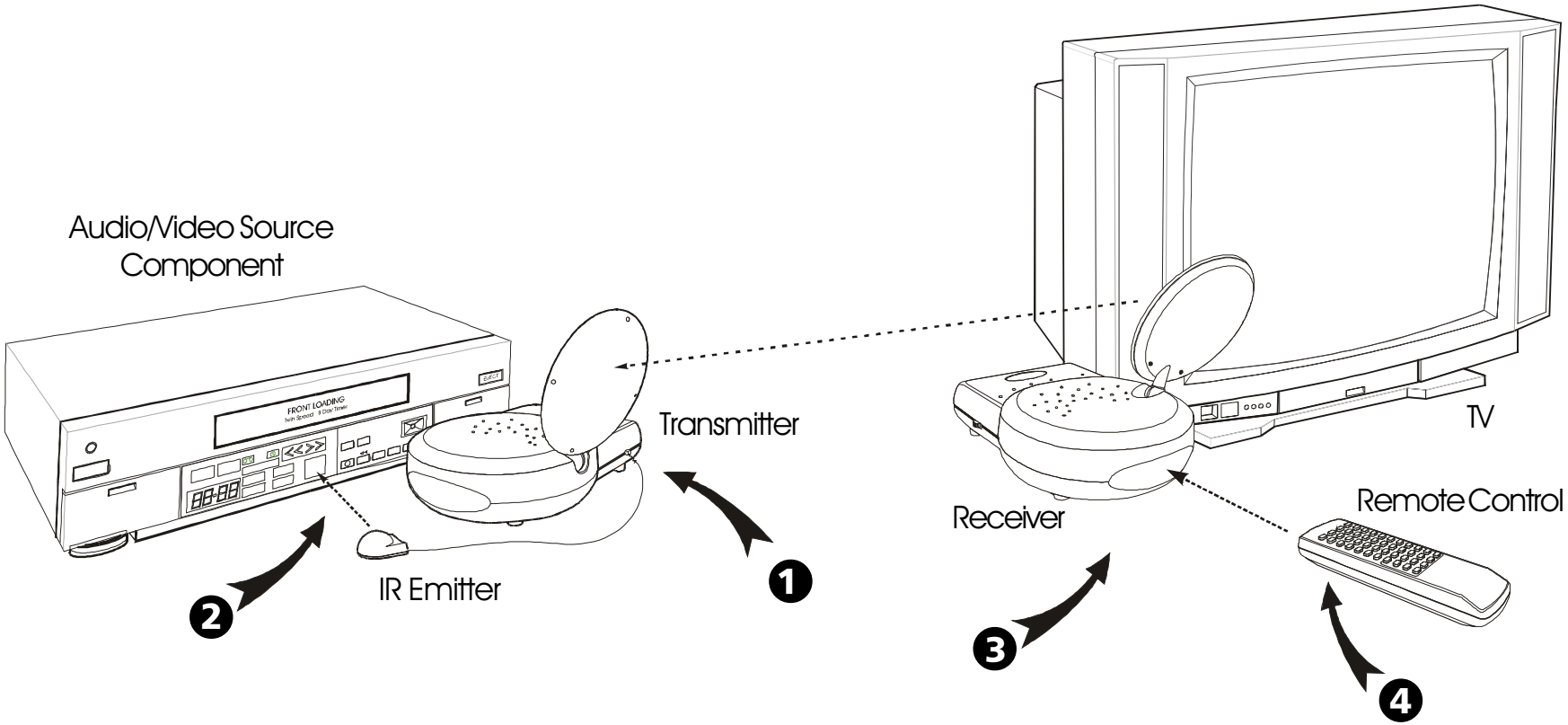
5 Place the receiver in a convenient location, then adjust its antenna so that the front (curved face) faces the room where the transmitter is set up. See "Orienting Units for Optimal Performance", on page 15.

Setting Up-Remote Control Feature

This product gives you the ability to control audio/video components using your existing remote control device. The infrared (IR) signal emitted by your remote control is converted to a radio frequency (RF) signal at the receiver. It is then sent to the transmitter, where the RF signal is converted back to the original IR signal and used to control the audio/video source through the IR extender mouse.
To use the IR extender mouse, follow the steps below.

1. Plug the IR extender mouse into the jack located on the side of the transmitter.
2. Point the IR extender mouse to the IR sensor on the audio/vido source component.
3. Position the receiver so that your remote control signal can strike the IR window on the front of the unit.
4. To use your remote control, point it at the front of the receiver and operate it as you normally would.

Setting Up-Remote Control Feature



Connecting to a Camcorder

The Wireless Audio/Video Sender can be used to send a picture from camcorders to any TV without wires.

- Connect one set of audio/video cables to the audio/video jacks of the transmitter and to the output jacks of the camcorder, matching the plug colors with the jacks on both the transmitter and camcorder.
- If your camcorder only has a mini-plug audio/video output, you will need a "Y" adapter patch cord (which comes with the camera) to convert the mini-plug to RCA plugs.

Connecting to a Stereo System

You can conntct the Wireless Audio/Video to your stereo system, to enjoy sound from your CD player, cassette deck, or radio, on speakers in another room.

- Connect one set of audio/video cables to the two audio jacks (red and white) of the transmitter and to the stereo system, matching the plug colors with the jacks on the transmitter. The yellow video plug is not used.
- Connect one set of audio/video cables to the two audio jacks (red and white) of the receiver and to the IN 1 or IN 2 jacks on your stereo receiver or amplifier, matching the plug colors with the jacks on both the component and transmitter. The yellow video plug is not used.

Setting Up-Other Applications

Transmitting from a Computer

The Wireless Audio/Video Sender can send computer images and sounds (e.g. high-resolution DVD) to a large TV screen without running wires between the two. To use this features your computer must be provided with audio output (sound card or onboard audio) and TV output (VGA card with TV-out, external VGA-to-TV converter, or onboard TV-out).

- Connect the yellow video plug of the audio/video cable to the video jack on the back of the computer or external VGA-to-TV converter, and to the video jack of the transmitter.
- Connect the mini stereo plug of the adapter (available in any electronic store) into the AUDIO OUT jack on back of computer, and the red and white audio/vdieo plugs into the AUDIO LEFT and AUDIO RIGHT jacks on the transmitter.

Receiving on a Computer

In conjunction with a video capture or TV tuner device, you can turn your computer into a second TV without running wires between the computer and your audio/video component.

- Connect the yellow video plug of the audio/video cable to the video jack on the TV tuner device or video capture card, and to the video jack of the receiver.
- Connect the mini stereo plug of the adapter (available in any electronic store) into the AUDIO IN jack on the back of computer, and the red and white audio/video plugs into the AUDIO LEFT and AUDIO RIGHT jacks on the receiver.

Orienting Units for Optimal Performance

Placing:

Place the transmitter and receiver on a flat, stable surface to prevent damage from falling.
For optimal performance, try to place the units as high as possible to avoid any possible interference from people walking between the transmitter and the receiver.
Microwave ovens can cause interference. Be sure you do not position the transmitter and receiver with a microwave in the path between them.

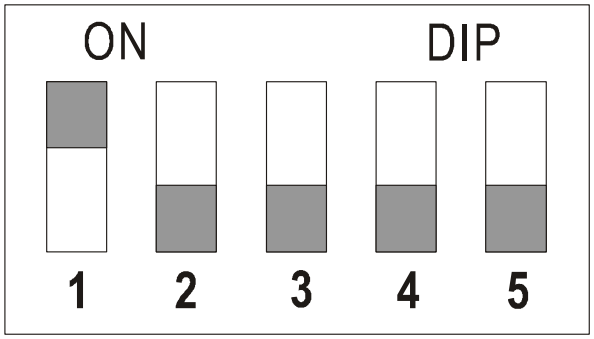
Adjusting the Audio/Video Antennas

For optimal reception, the antennas on both transmitter and receiver should be oriented. In most situations the curved face of the audio/video antennas on both the transmitter and receiver should be facing each other. If the transmitter and receiver are less than 10 feet (3 meters) apart, keep the audio/video antennas flat in their casings.

The audio/video antennas have been designed to pivot but have limited rotation in either clockwise or counterclockwise directions. Antenna does not rotate freely 360 degrees. Rotating past the point where resistance is felt will result in permanent damage to both antenna and mechanical stopper.

Auto-Sequence Function for Multiple Location Monitoring

The receiver's built in auto-sequence function is ideal for security use. The receiver can be used with up to four cameras on four different channels and display them in sequence on a single TV/monitor. The receiver's various operating modes are set via dipswitches as shown in the following diagram:



Factory-Preset Mode

Dipswitches 1 ~ 4: Set up the automatic channel sequence function

Slide the channel dipswitch that you wish to view to the ON position.

Diswitch 5: Sets the sequence change interval time

ON: Changes channel every eight seconds.

OFF: Changes channel every four seconds.

Auto-Sequence Function for Multiple Location Monitoring

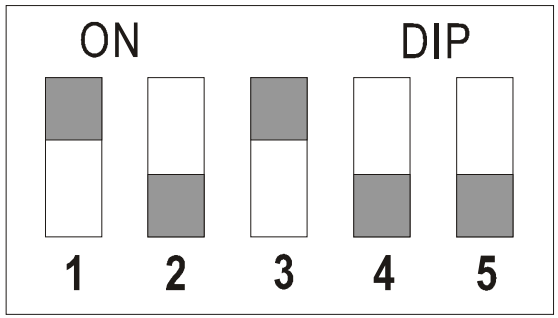
Note 1: The receiver will auto detect the receiving channels, and display them in sequence. When only one channel dip switch is in the ON position, the receiver will receive the channel continuously, without regard to the position of the 5th dip switch. If more than one dip switch remains on, the auto-sequence function will continue on those channels.

Note 2: When none of the dip switches are in the ON position, the receiver will automatically set the receiving channel to Channel 1.

Example:

Using the auto-sequence function:

If you have two wireless camera and their channels are set on CHANNEL 1 and CHANNEL 3, and you wish to monitor the two channels in sequence, you must slide up the first and third dip switches to the ON position (see the diagram on the right). If you wish these two channels to be alternated at eight-second intervals, slide the DIP 5 switch to the ON position. Leave it in the lower position for four-second channel change intervals.



Stopping the auto-sequence function:

To stop the auto-sequence function and lock on one channel, leave the dip switch for the channel you want to receive in the ON position. Slide the others to the lower position.

Troubleshooting

If you are not getting any signal at all

- Check that the transmitter and receiver are properly connected to the audio/video components from which you want to send/receive the audio/video s signal
- Make sure that the transmitter is connected to the surce device and the receiver to the receiving device
- Check the power ON/OFF switches on the transmitter and receiver
- Check power switches on the remote TV and video source (VCR, laser disc player, satellite receiver, etc.).
- Make sure power plugs are pushed all the way in.
- Check all cable connections.
- Check the CHANNEL switch on both transmitter and receiver are set to the same number
- If you connect the receiver to a TV through an RF modulator, check that the TV is tuned to the same channel as the TV Channel switch on the RF modulator (3 or 4)

If the signal is poor, or there is interference

- Adjust the antennas orientation (see "Orienting Units for Optimal Performance", on page 15)
- Change the channel on both transmitter and receiver and make them the same.
- If there is a microwave oven in use in the path between the camera and monitor, remove the microwave oven or turn it off
- Make sure the transmitter and receiver are within range (up to 300 feet)
- Check the channel dipswitch positions on the receiver

Care and Maintenance

- For best performance, don't touch the antennas unnecessarily
- Keep all its parts and accessories out of young children's reach
- Keep dry. Precipitation, humidity, and liquids, contain minerals that will corrode electronic circuits
- Do not use or store in dusty, dirty areas. Moving parts may be damaged
- Do not store in hot areas. High temperatures can shorten the life of electronic devices and warp or melt certain plastics
- Do not store in very cold areas. When the Wireless Audio/Video Sender warms up (to its normal temperature), moisture can form inside the case, which may damage electronic circuit boards
- Do not attempt to open the case. Non-expert handling of the device may damage it
- Do not drop , knock, or shake it. Rough handling can break internal circuit boards
- Do not use harsh chemicals, cleaning solvents, or strong detergents when cleaning. Wipe with a soft cloth slightly dampened in a mild soap-and-water solution
- If the Wireless Audio/Video Sender is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service
- Operate this product using only the power supply included with it or provided as an accessory
- Do not overload electrical outlets or extension cords as this can result in fire or electric shock

Specifications

Frequency	2.4~2.4835 GHz
Range	300 feet (100 meters) clear line of sight
Antennas	Directional circular-polarized antenna
Channel	4 selectable channels
AV mod/demod. method	FM
Audio	Stereo audio input and output
Video	Composite video input and output
Dimensions	14 x 11 x 2.8 cm (5.5 x 4.3 x 1.1 in) each for transmitter/receiver
Weight	200g (7.1 ounces) each for transmitter/receiver
Operating remperature	10°C~50°C (14 F~122 F)

Specifications are subject to change witout notice.

Declaration of Conformity

Hereby, TRANWO TECHNOLOGY CORP., declares that this TTA-20T/TTA-20R is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

FCC Statement

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

FCC Label Compliance Statement:

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.