

FCC ID: O6LGIGAAIR-1/T

GigaAir 1010

2.4 GHz Wireless AV Sender

User's Manual

For Your Safety

Interference All wireless device many get interference which could affect performance. Don't touch the antenna unnecessarily.

Accessories Use only approved accessories. Do not connect incompatible products.

Connecting to other devices When connecting to any other device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

Operating Environment Remember to follow any special regulations in force in any area and always switch off this device whenever it is forbidden to use it,, or when it may cause interference or danger.

Electronic Devices Most modern electronic equipment is shielded from radio frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless A/V sender. Operation of any radio transmitting equipment, may interfere with the functionality of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine if they are adequately shielded from external RF energy or if you have any questions.

If you have any reason to suspect that interference is taking place, turn off the immediately, and consult your service provider.

Features

Welcome to the whole new world of smart wireless video with Tranwo's GigaAir series products. The GigaAir 1010 uses the latest in wireless communication technology to deliver audio and video from one room to another up to 300 feet away. With the GigaAir 1010, you can expand your wireless home entertainment system to room in the house without having to cart your equipment from one next!

The benefits for GigaAir 1010 are:

- **Transmits sound and picture** – transmits and receive real time, real quality AV signal
- **Work with any of your existing AV components** -- Audio/video can be sent by the transmitter from a satellite receiver, VCR, laser disc player, stereo, DVD player or camcorder to be enjoyed in another room of your house
- **Requires no line-of-sight** -- The 2.4 GHz FM signal penetrates travel through walls and floors to any room
- **2.4 GHz wireless technology** – avoids interference from mobile phone
- **Expandable system** -- “Add-on” receivers for “broadcasting” to numerous TVs
- **Work with both of the PAL and NTSC TV system**

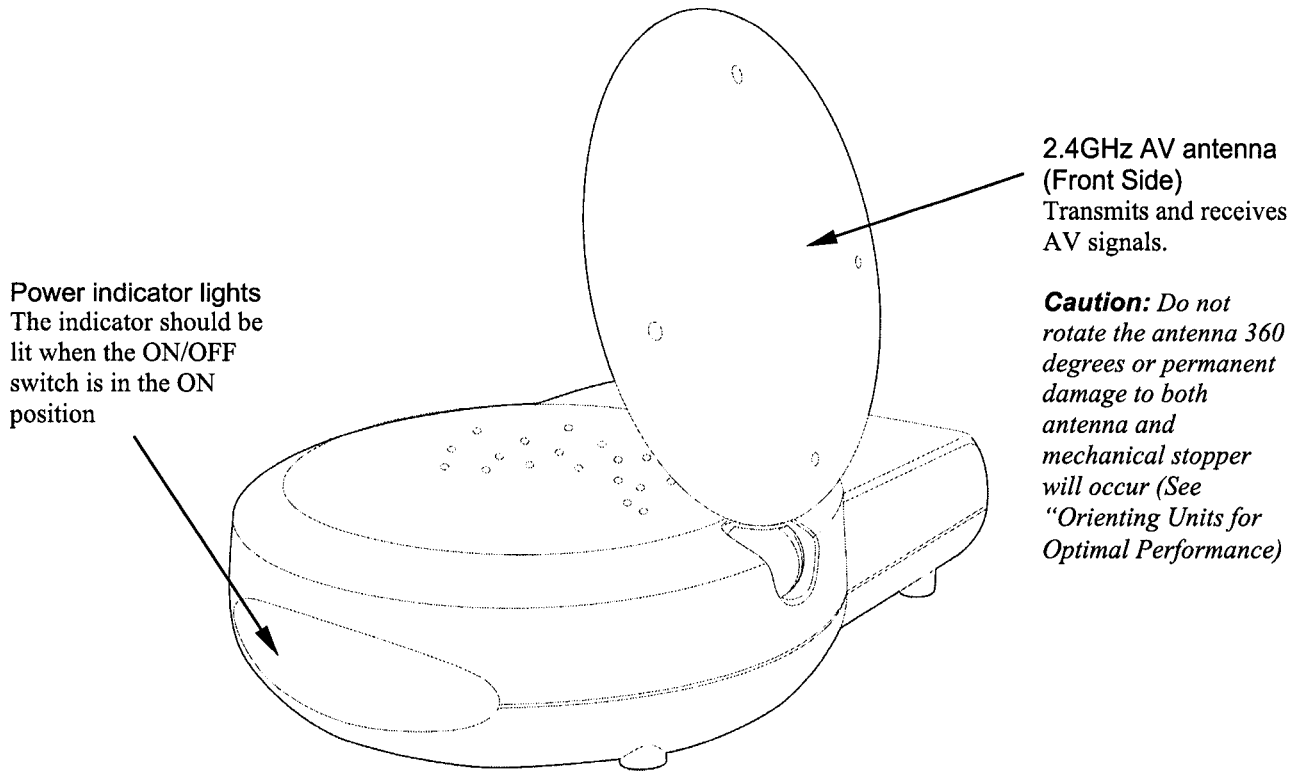
Accessory

- One transmitter (GigaAir 10T)
- One receiver (GigaAir 10R)
- Two A/V cables for NTSC version; Two Scart cables for PAL version
- Two power adapters
- This User's Manual

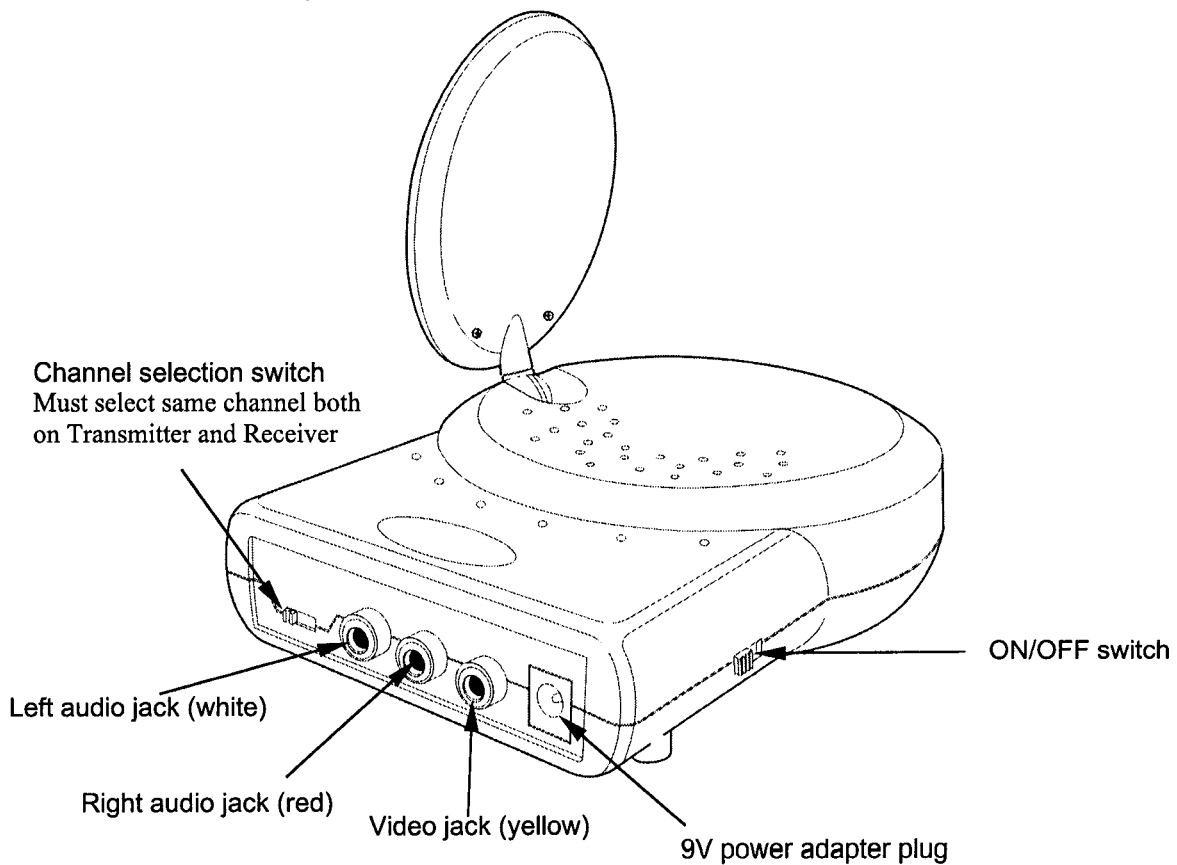
Nomenclature

The transmitter and receiver look virtually alike, You can find the “Transmitter” and “Receiver” on the name plate of units.

Front View of Transmitter/Receiver (GigaAir10T/10R)

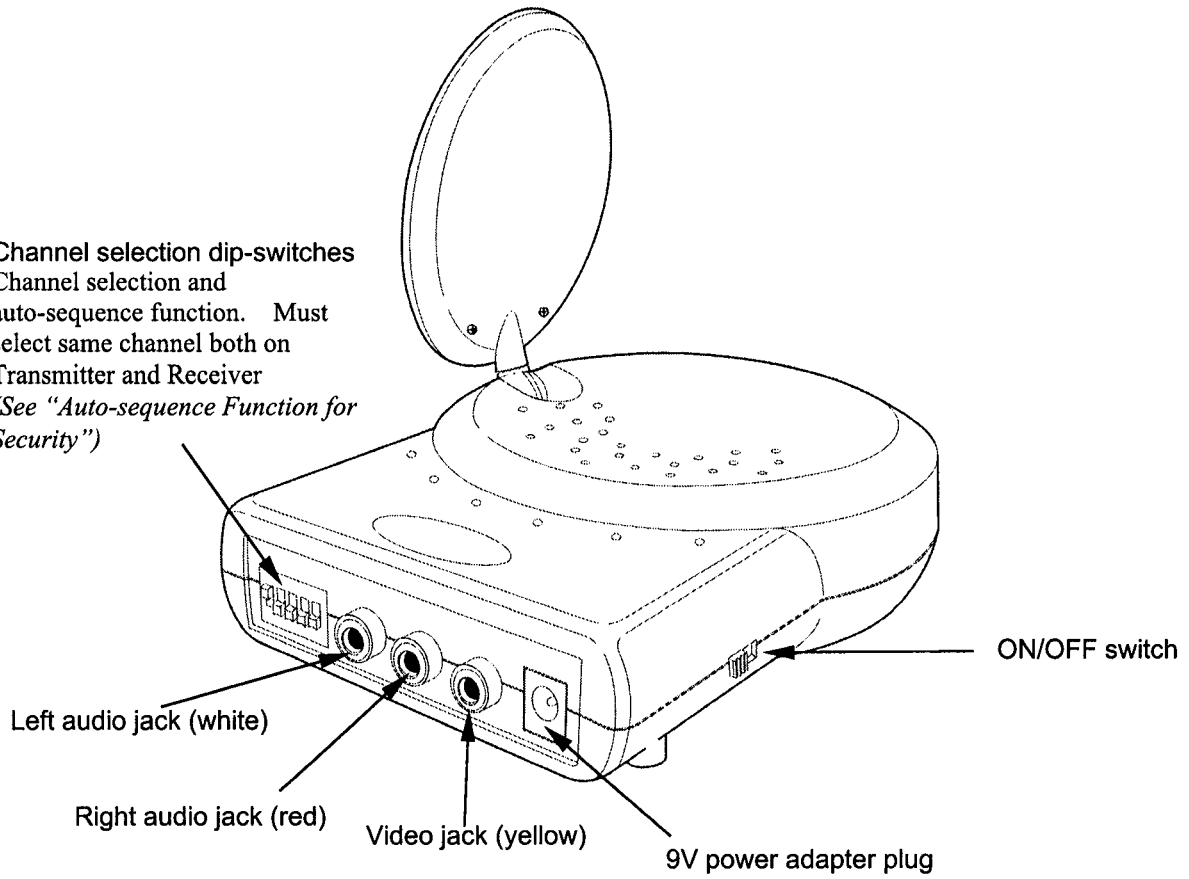


Rear View of Transmitter (GigaAir 10T)



Rear View of Receiver (GigaAir 10R)

Channel selection dip-switches
Channel selection and
auto-sequence function. Must
select same channel both on
Transmitter and Receiver
(See "Auto-sequence Function for
Security")



Setting up your A/V sender

Before you make connection:

- Please 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
- Note: the channel switch on the transmitter is a slide switch, select the channel by sliding the slide switch to the channel No. you want; the channel switch on the receiver are five dip switches, select the channel by sliding the channel dip-switch you want to the "ON" position. (See "Auto-Sequence Function for Security")
- Depending on the type of TV you own and the component A/V system (VCR/DVD player, DSS receiver/Cable Box, LD player...), connection methods will differ. Recommended refer to the connected A/V component owner's manual for details, then make connections according to the following steps.

Connecting transmitter to an A/V component nearby primary TV

Step 1. Connect one set of A/V cables to the A/V jacks of the transmitter (GigaAir 10T or 20T), matching the plug colors with the jacks on the transmitter.

Step 2. Connect the other end of the cable to the A/V jacks on the A/V component labeled LINE OUT, matching the plug colors with the jacks on the A/V component.

- If the A/V 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 A/V 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.

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

Step 4. Turn the ON/OFF switch to ON position and the indicator light (in front window) should go on.

Step 5. Place the receiver in a convenient location, then adjust its antenna so that the front side (curved side) faces the room where the receiver is set up. (See the section of this manual titled "Orienting Units for Optimal Performance.")

Connecting Receiver to a TV

Step 1. Connecting directly to a TV

Connect one set of A/V cable to the A/V jacks of the receiver (GigaAir 10T or 20T) and to the output jacks of the TV. Matching the plug colors with the jacks on both the component and transmitter. If the TV has only one output for audio (mono sound only), connect the white plug to the jack.

Connecting to a TV without A/V out jacks

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

Connecting to a TV through an A/V component (DSS Receiver/Cable Box/VCR)

Connect a length of coaxial cable from the TV's VHF/UHF IN coaxial connector to the OUT coaxial connector on your A/V component. To watch cable channels on the TV, connect your cable TV hookup to the IN coaxial connector on your A/V component.

Step 2. Plug one end of the provided power adapter into the back of the receiver and the other end into a wall outlet.

Step 3. Turn the ON/OFF switch to ON position and the indicator light (in front window) should go on.

Step 4. Place the receiver in a convenient location, then adjust its antenna so that the front side (curved side) faces the room where the receiver is set up. (See the section of this manual titled “Orienting Units for Optimal Performance.”)

Other Applications

Connecting to a camcorder

The GigaAir 1010/2020 can be used to send the picture from camcorders or CCD cameras to any TV without wires for family safety and security enhancement.

Step 1. Connect one set of A/V cable to the A/V jacks of the transmitter (GigaAir 10T or 20T) 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 A/V output, you will need a “Y” adapter patch cord to convert the mini-plug to RCA plugs which comes with the camera.)

Step 2. Plug one end of the provided power adapter into the back of the transmitter and the other end into a wall outlet.

Step 3. Turn the ON/OFF switch to ON position and the indicator light (in front window) should go on.

Step 4. Place the receiver in a convenient location, then adjust its antenna so that the front side (curved side) faces the room where the receiver is set up. (See the section of this manual titled “Orienting Units for Optimal Performance.”)

Connecting to a Stereo System

To enjoy sound from your CD player, cassette deck or radio on speakers in another room, you can connect GigaAir 1010/2020 to your stereo receiver. To use this feature, you must connect either powered speakers or another amplifier to the GigaAir receiver at the remote site.

Tips: Connect one set of A/V cables to the two audio jacks (red and white) of the transmitter (GigaAir 10T) and to the stereo system, matching the plug colors with the jacks on the transmitter. The yellow video plug is not used.

If the jacks on the A/V component are colored differently, connect the red plug to the jack labeled Audio right and the white plug to the jack labeled audio left.

Connect one set of A/V cables to the two audio jacks (red and white) of the receiver (GigaAir 10R) 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.

Transmitting from a computer

GigaAir 1010/2020 can send computer images and sounds (i.e.: high-res DVD) to a large TV screen without running wires between the two. With this function, your computer must be provided with audio output (riser sound card or onboard Audio) and TV output (riser VGA card with TV-out, external VGA-to-TV converter, or onboard TV-out)

Tips: Using an external VGA-to-TV converter

Connect the monitor cable attached to your computer screen to the VGA OUT plug on the VGA-to-TV Converter, then connect a VGA extension cable (comes with converter) to the VGA port on the back of your computer and to the VGA in plug on the VGA-to-TV Converter. Connect one yellow video plug of the A/V cables to the video jack of the VGA-to-TV Converter and to the video jack of the transmitter. The red and white audio plugs are not used.

Using a riser VGA card with TV-out or on board TV-out

Connect one yellow video plug of the A/V cables to the video jack on the back of the computer and to the video jack of the transmitter. The red and white audio plugs are not used.

Receive on a computer

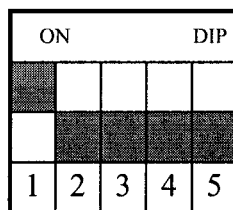
In conjunction with a Video capture or TV tuner device, you can turn your computer into a second TV without running wires between the computer and your A/V component.

Tips: connect one yellow video plug of the A/V cable to the video jack on the TV tuner device or video capture card, and to the video jack of the receiver. The red and white audio plugs are not used.

Connect the mini stereo plug of the adapter (available in the electronic store) into the audio-in jack on the back of computer, and the red and white A/V plugs into the AUDIO LEFT and AUDIO OUT jacks on the receiver.

Auto-Sequence Function for Security

The GigaAir 1010 Receiver built in auto-sequence function, ideally for security using. If you have more than one camcorders, you can purchase the additional transmitters, connect the camcorders and transmitters, and connect the receiver to a TV or monitor, then you can monitor a series of rooms on TV. Instead of purchase the additional transmitter, you can also purchase the additional GigaAir 30T/40T camera (with built-in transmitter), to monitor and transmit the image and sound to the receiver. The receiver can use up to four cameras on four different channels, while the receiver can receive signals on up to four different channel and display them in sequence. The receiver includes five dip-switches for various operating modes, as described in the following diagram:



(Factory-preset mode)

DIP 1 ~ 4: Channel switch: setting up the automatic channel sequence function

Slide the channel dip-switch that you wish to view to the “ON” position, or slide the channel dip-switch that you wish to deactivate to the “OFF” position.

DIP 4/8: Sequence interval timer

ON: Displays at eight second intervals.

OFF: Displays at four second intervals.

Note: The GigaAir 10R (Receiver) will auto detect the receiving channels, and display them in sequence. When only one channel dip-switch in the “ON” position, the receiver will only receive the channel continuously, no matter the 5th dip-switch in ON or OFF position. If more than one dip-switches remains on, the auto-sequence function will continue on these channels

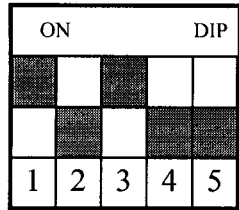
Note: When all the dip-switches are in the “OFF” position, the receiver will set the receiving channel on Channel 1 automatically.

Example:

When you want to use the auto-sequence function:

If you have two transmitters and their channels are set on CH 1 and CH 3, and you wish to monitor the two different channels in sequence, you must slide up the first and third dip-switches to the “ON” position. (See the following

diagram.) If you wish these two channels to be displayed at eight second intervals, slide up the “4/8” dip-switch to the “ON” position; or you can leave it in the “OFF” position, and it will be displayed at four second intervals.



When you want to stop the auto-sequence function:

When you want to stop the auto-sequence function and fix on one channel, remains the channel you want to receive in “ON” position, slide down the others to the “OFF” position

Orienting units for optimal performance

Placing Location

Place the Transmitter and Receiver on a flat, stable surface to prevent damage to it 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 A/V antennas

For optimal reception, the antennas on both transmitter and receiver must be oriented in certain configurations for best results. In most situations, the curved face of the A/V antennas on both the transmitter and receiver should be facing to each other. Some illustrations shown below. Since all operation environments are different, additional slight tilting and twisting may be necessary. If the transmitter and receiver are less than 10 feet (3 meters) apart, keep the A/V antennas flat in their casings.

The A/V antennas have been designed to pivot and have limited rotate in either clockwise or counterclockwise directions.

Troubleshooting

If you are not getting any signal at all

- 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 TV through a RF modulator, check that the TV is tuned to the same channel as the TV Channel switch on the bottom of the RF modulator (3 or 4).

If the signal is poor, or there is interference

- Adjust receiver antenna orientation. (See section on “Orienting units for optimal performance” in this manual.)
- Try to change the channel on both transmitter and receiver and make the channels match.
- If using a microwave oven, turn it off.
- Remove microwave oven from path between transmitter and receiver.
- Make sure if the transmitter and receiver are out of range (over 300 feet)
- Make sure if the channel dip-switches on the receiver is only one remains in the “ON” position, if there are more than one channe

Care and Maintenance

Your wireless A/V sender is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you to fulfill any warranty obligations and to enjoy this product for many years.

- Keep it and all its parts and accessories out of small children’s reach.
- Keep it dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits
- Do not use or store it in dusty, dirty areas. Its moving parts can be damaged.
- Do not store it in hot areas. High temperatures can shorten the life of electronic devices, warp or melt certain plastics.
- Do not store it in cold areas. When the A/V Sender warms up (to its normal temperature), moisture can form inside the phone, which may damage electronic circuit boards.
- Do not attempt to open it. Non-expert handling of the device may damage it.
- Don not drop , knock or shake it. Rough handling can break internal circuit boards.
- Don not use harsh chemicals, cleaning solvents, or strong detergents to clean it. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.
- If the A/V sender is not working properly, take them 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.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

Specification

Frequency	2.4 ~ 2.4835 GHz 2412 ~ 2473 MHz
Range	300 feet (clear line of sight)
Antennas	Directional circular-polarized antenna
Channel	4 selectable channels;
AV mod/demod. type	FM
Dimensions	14 x 11 x 2.8 cm (5.5 x 4.3 x 1.1 inches)
Weight	200g (7.1 ounces)
Audio	Stereo audio input and output
Video	Composite Video input and output
Operating temperature	-10°C ~ 50°C (14°F ~ 122°F)

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 instruction, may cause harmful interference to radio communication. 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

Using a microwave oven close to the receiver could cause interference

People or cars passing through the signal can give the picture a momentary drop out.

The best location for the transmitter and receiver is as high off the ground as practical