

2.4GHZ WIRELESS VIDEO SENDER

INSTRUCTION MANUAL

AWV398

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INTRODUCTION

DEAR CUSTOMER,

we congratulate to your new wireless audio/video sender and we are glad that you have decided for the MBO VFS 1000 from MBO*.

The product you have bought is state of the art, of highest quality and has many advanced features.

CAUTION



Please read the operation manual in order to familiarise yourself with all the possibilities of your MBO VFS 1000. Follow the instructions in order to ensure reliable operation and a long service life of the appliance.

The operating instructions are there to provide information. Their contents are not the subject of a contract. All of the data stated are merely nominal values.

Subject to technical modifications.

Closing date: 05/2001

FEATURES

- Transmitting frequency of 2.4 GHz
- You can choose four channels
- 434 MHz transmitter frequency for available infrared remote control
- Reach: Up to 300 m in the open, 50 m in the house
- High-quality FM modulation

INTRODUCTION

AWV398

The System is a wireless audio/video sender that uses advanced wireless communication technology to deliver consistently sharp audio and video up to 300 meters away. By transmitting at a very high frequency (2.4 GHz or 2.4 billion cycles per second), the BZT-compliant. The system avoids the crowded 900 MHz band used by many cordless telephones and other wireless audio/video transmitters. Its superior quality is due to wide-band FM rather than AM signal modulation.

Circular polarized high-gain directional transmitting and receiving antennas are used to minimize interference from unwanted signals and maximize the signal range.

The system also integrates an UHF remote control extender to allow you to control the audio or video source from another room using your existing remote controller.

General Application

- Watch the movie you rent on any TV in your home without moving your VCR, laser disc player or running messy cables.
- Watch cable or satellite programs on any TV in your home.
- Listen to stereo quality music from your receiver on any powered speakers inside or outside the home.
- Show computer images on a remote TV (additional equipment required).

Safety & Security Applications

- Monitor your sleeping baby, your playing children, the elderly, or the disabled on your TV using your existing camcorder.
- See who is outside your door on TV through your camera or miniature CCD camera.
- And many more uses!

INTRODUCTION

IMPORTANT SAFETY PRECAUTIONS



- To prevent fire or shock hazard, do not expose this product to rain or moisture. Do not use near a bath tub, basin, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.
- To avoid electrical shock, do not open this product.
- This product should be operated using only the power supply included with it or provided as an accessory.
- Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.
- Refer servicing to qualified personnel only.

CAUTION



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

NOTE

This equipment has been tested and found to comply with the limits for BZT, FCC and CE EMC directive. 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.

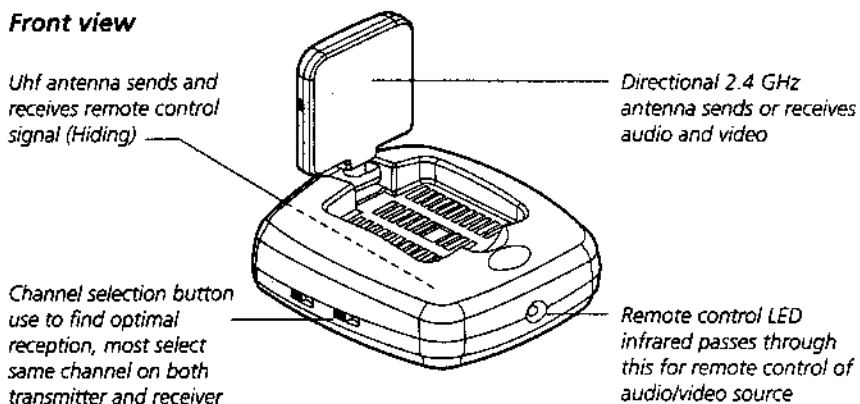
TRANSMITTER AND RECEIVER

PANEL CONTROLS AND FEATURES

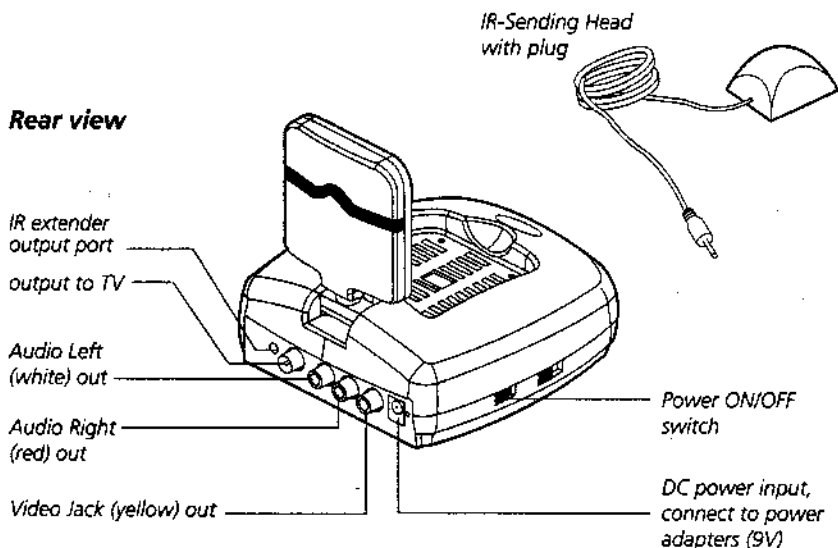
fig.. 1

The following illustrations show the names of each component, button and switch connector on the transmitter and receiver.

Front view



Rear view

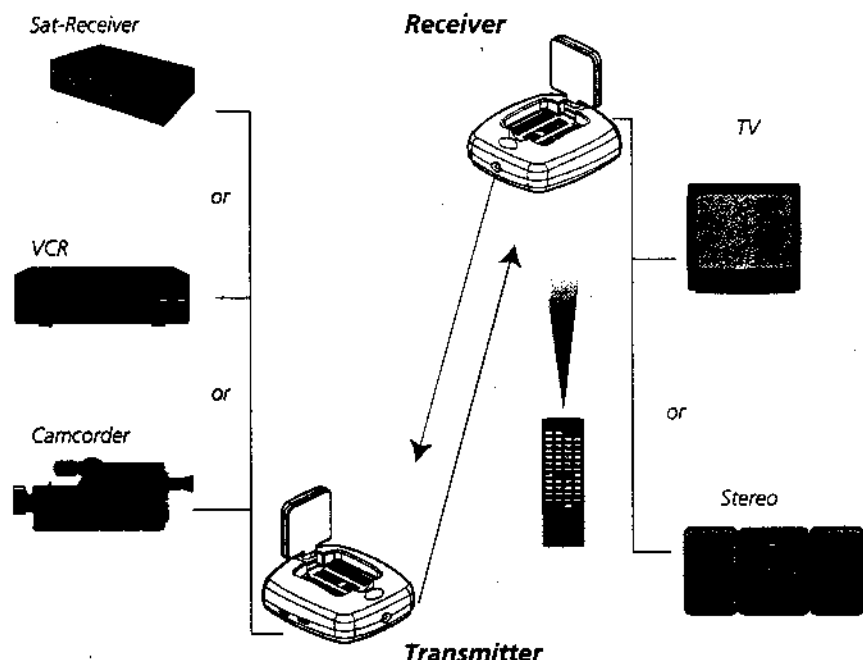


TRANSMITTER AND RECEIVER

STRUCTURE OF THE SYSTEM

fig.. 2

To enjoy wireless video and audio, just connect the transmitter MBO FVS 1000 Systems to whatever audio/video source you want to enjoy from another location, and connect the receiver to the TV, monitor or powered speakers in that other location.



The system is suggested for use with the following A/V equipment :

Video sources: VCR, Satellite Receiver, Laser Disc Player, Camcorder or Miniature CCD Camera

Audio sources: Compact Disk Player or Changer, Stereo Receiver, Cassette Deck

The following pages will show you how to connect the transmitter to some of these A/V equipment and then demonstrate how and where to connect and find a good position for the receiver.

SETTING UP THE SYTEM

HOW TO TRANSMIT AUDIO/VIDEO FROM YOUR VCR

1. Check the spelling of Cinch-Scart cable to the A/V jacks on the transmitter and to the Scart connector on the back of your VCR. Be sure the colours of plugs match the colours of jacks on both the VCR and the transmitter.

2. Plug one end of the power adapter into the back of the transmitter and the other end into any 230-volt wall outlet (or 120-volt). Use only the adapter provided.

Caution:

Make sure the ON/OFF switch is in the OFF position before connection.

3. If your VCR has only one set of A/V output jacks and you want to use it with a nearby TV, connect 75 ohm RF coaxial cable from the modulator signal OUT port on your VCR to the VHF/UHF IN port on your TV.

Note:

In order to also view cable programs on that TV, connect your incoming cable TV source to the IN port of the VCR.)

4. Locate and orient the transmitter according to the section of this manual titled "Orienting Units for Optimal Performance" for best performance of the transmitter.

SETTING UP THE SYTEM

HOW TO RECEIVE WIRELESS AUDIO/VIDEO ON YOUR TV

There are two ways to receive wireless audio/video signals on your remote TV (TV in another location such as in bedroom, kitchen).

- Connect the receiver directly to the remote TV.
- Connect the receiver to a VCR, which is then connected to the TV.

Note:

If your TV has picture-in-picture capabilities, you can view any image transmitted by the system, such as your sleeping baby, in a small inset picture while enjoying other programming on the rest of the screen. Consult the owner's manual of your TV for instructions on using these capabilities.

Connecting the receiver directly to a Remote TV

Check the spelling of Cinch-Scart cable (labelled "RECEIVER") to the AV jacks on the receiver and to the Scart connector on the back of your TV.

IF YOU WANT TO USE THE ANTENNA CABLE

You may also connect a 75 ohm coaxial cable from the TV's antenna in (VHF/UHF in) to the receiver's antenna output (**TO TV**).

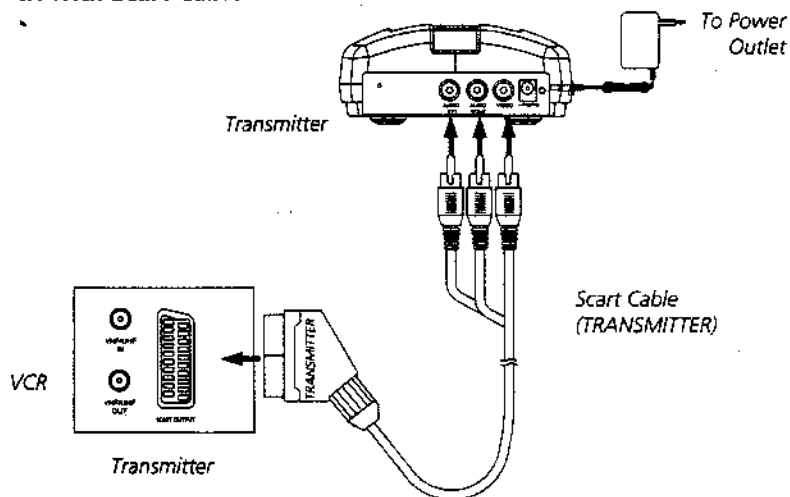
Note:

If you can't find your programme immediately, start the station search of your TV.

SETTING UP THE SYSTEM

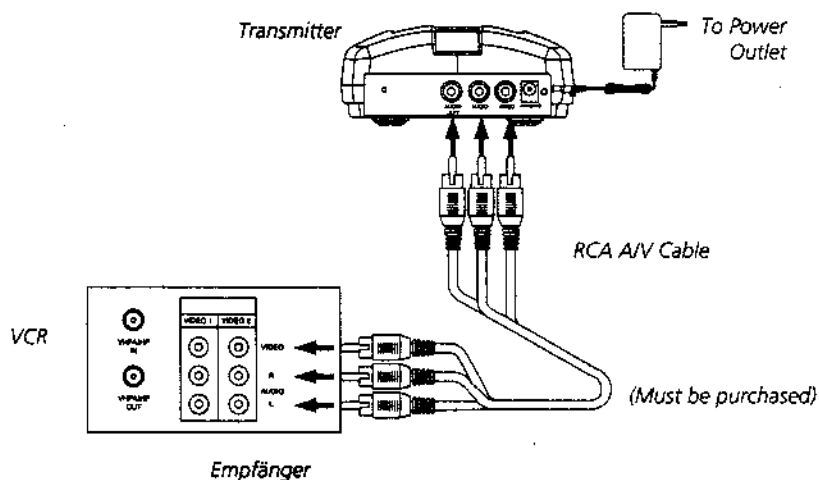
Connecting Transmitter to VCR with Scart Cable

fig. 3



Connecting Transmitter to VCR with Cinch Cable

fig. 4

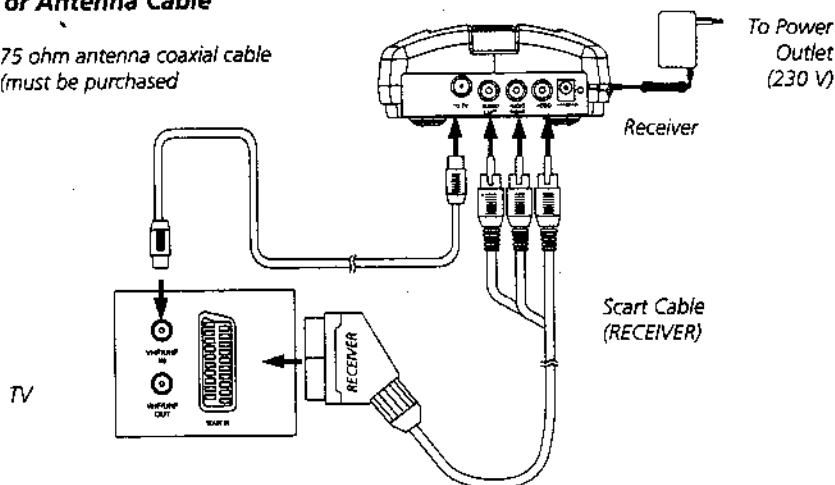


SETTING UP THE SYSTEM

Connecting Receiver to TV with Scart Cable or Antenna Cable

fig. 5

75 ohm antenna coaxial cable
(must be purchased)



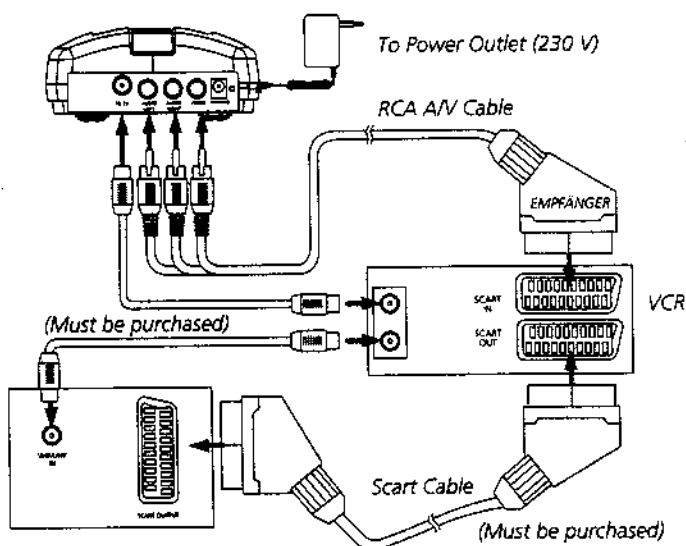
Connecting Receiver to TV through VCR with Scart Cable or Antenna Cable

fig. 6

Receiver

75 OHM
Coaxial
Cable

TV

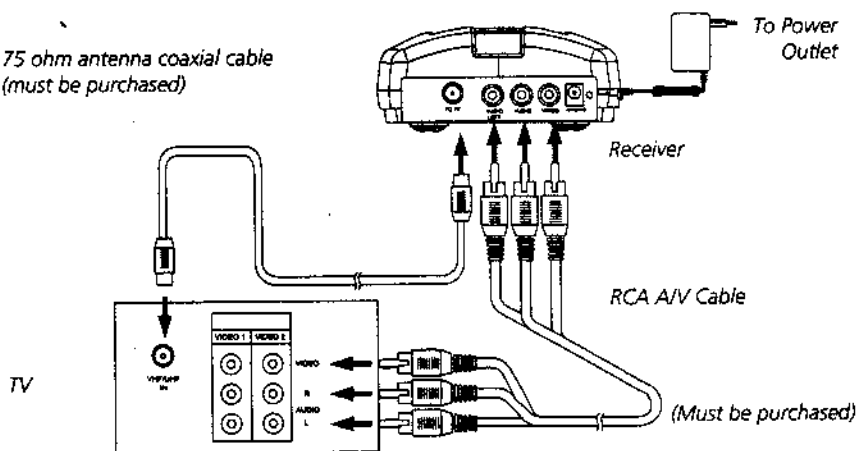


SETTING UP THE SYSTEM

Connecting Receiver to TV with Cinch Cable or Antenna Cable

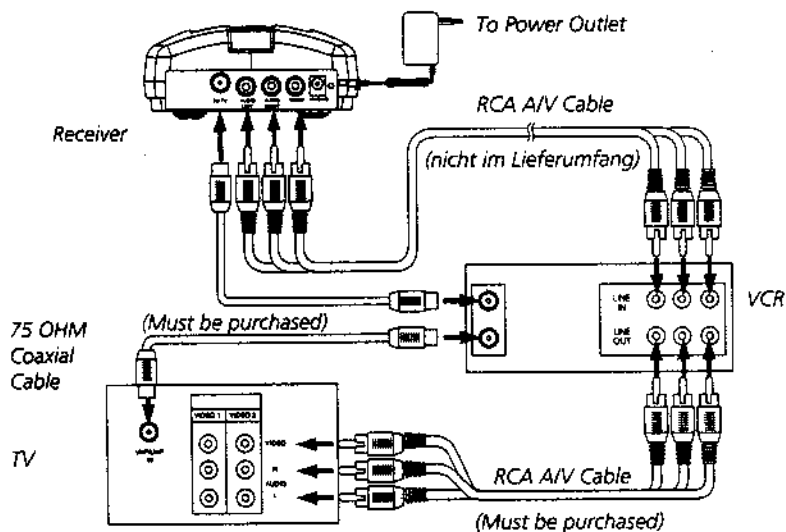
fig. 7

75 ohm antenna coaxial cable
(must be purchased)



Connecting Receiver to TV through VCR with Cinch Cable or Antenna Cable

fig. 8



SETTING UP THE SYTEM

CONNECTING RECEIVER TO REMOTE TV THROUGH VCR

This setup enables you to record transmitted audio and video on your remote VCR and also enjoy the picture and sound on a remote TV at the same time.

1. Check the spelling of Cinch-Scart cable to the AV jacks on the receiver and to the Scart connector on the back of your VCR. Be sure the colours of plugs match the colours of jacks on both the VCR and receiver.

2. You may also connect a 75 ohm cable from the receiver's TV-out jack (To TV) to the VCR's UHF/VHF-in jack.

Note:

This feature is optional.

3. If your TV has AV input jacks, connect another set of AV cables to the TV's AV input jacks and to the AV output jacks on your VCR.
4. If your TV does not have any AV input jack, in this case, please connect a 75 ohm coaxial cable from the TV's antenna in (or VHF/UHF) to VCR's modulator output.

Note:

This feature is optional.

5. Plug one end of the power adapter into the back of the receiver and the other end into any 230 wall outlet. Use only the adapter provided.

Caution:

Make sure the ON/OFF switch is in the OFF position before connection.

Locate and orient the receiver to best video and sound quality please according to the section of this manual titled "Orienting Units for optimal Performance".

IR-REMOTE CONTROL

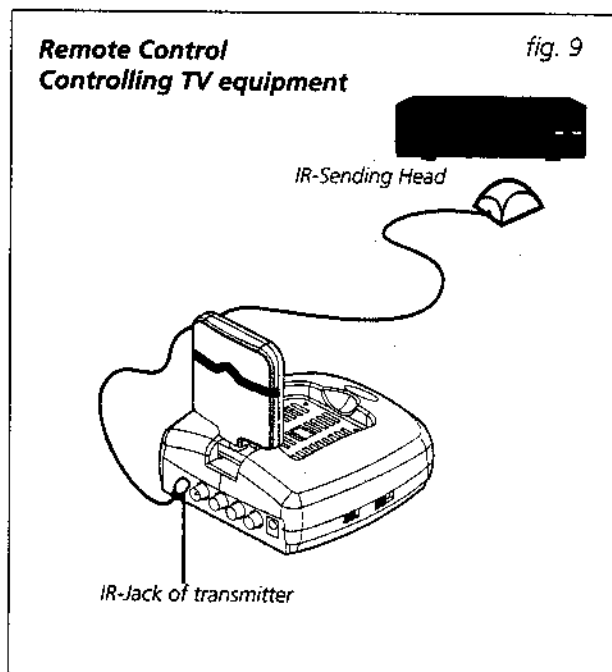
REMOTE CONTROL

The additional IR-sending head enables you to conduct radio signals of a remote control from transmitter to receiver and therefore e.g. to control VCR, Sat-Receiver etc.

You have to make sure to use the remote control of the equipment which is to be remotely controlled.

Connecting:

1. Connect the IR-Sending Head contained in the extent of supply to the IR-Jack of the transmitter.
2. Fasten the sending head at a distance not exceeding 5 cm from the IR receiver of the equipment, you want to control. (You should test it before perhaps.) The attached Velcro will help you to fix the sending head.



ORIENTING UNITS

ORIENTING UNITS FOR OPTIMAL PERFORMANCE

Caution:

The system should be placed on a flat, stable surface to prevent damage to it from falling. For uneven or slippery surfaces, such as the top of your TV, audio/video equipment, or entertainment center.

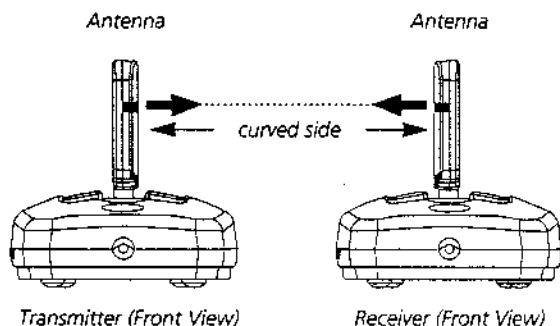
For optimal performance, both the audio/video should be carefully oriented as described below.

Orienting the Audio/Video Antennas

The system broadcast their high-quality audio and video using directional antennas which must be oriented in certain configurations for best results. The antennas have been designed to pivot and rotate in almost any direction.

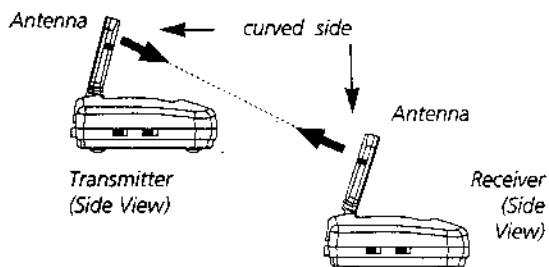
How to orient the 2.4GHz audio and video antennas. Orientation A

fig. 10

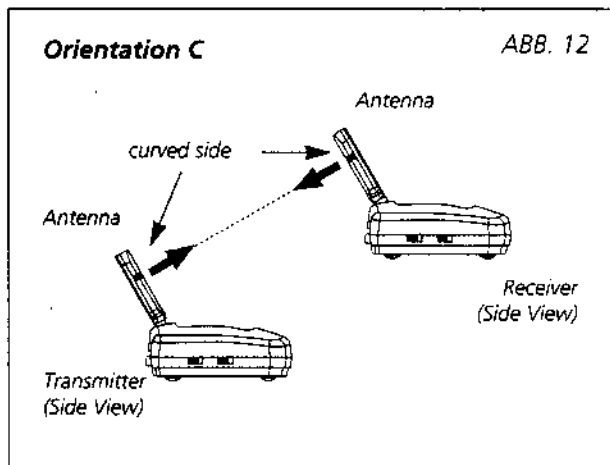


Orientation B

fig. 11



ORIENTING UNITS



In most situations, the flat curved face of the antennas on both the transmitter and receiver should be facing one another and perpendicular (at a right angle) to an imaginary line drawn between the two units. Three examples are shown Fig-1, Fig-2 and Fig-3. Since all homes are different, for optimal reception, additional slight pivots or rotations may be necessary.

ATTENTION



If the transmitter and receiver are less than 10 feet apart, it is suggested to keep the antennas flat in their casings since the distance is so short.

GENERAL INFORMATION

TROUBLESHOOTING

Please read this owner's manual carefully and follow the steps described in it. If you still have difficulties, consult the following table. It will guide you through the most common problems and their solutions.

Problem	Possible solutions
No picture or sound	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, ect.) Make sure power plugs are pushed all the way in Check all cable connections
Interference: Noisy picture or audio	Adjust receiver and transmitter antenna orientation (see section on "orienting Units for Optimal Performance" in this Manual) For channel switched on, select a different channel by pushing the channel selector button on both transmitter and receiver so that the channels match. If using a microwave oven, turn it off Remove microwave oven from path between transmitter and receiver
Remote control does not work	Check the path between the transmitter and the audio/video source and clear any obstructions.

GENERAL INFORMATION

SPECIFICATIONS

TRANSMITTER:

Output Level	:	90 dB microvolts/meter at 3 meters (complies with FCC, BZT)
Operating frequency	:	2,4 to 2.4835 GHz
Modulation	:	FM (video and audio)
Video Input Level	:	1V p-p (75 ohm)
Audio Input Level	:	1V p-p (600 ohm)
Video Input Impedance	:	75 ohm
Audio Input Impedance	:	600 ohm
Power Consumption	:	9Vdc, 300 mA
Dimensions	:	appr. 12.9 x 12.2 x 5.2 cm (appr. 5 x 4.8 x 2 inches)
Weight	:	appr. 227g (appr. 8 ounces)

RECEIVER:

Output level	:	1V p-p 75 ohm (video), 1V p-p (audio)
Power Consumption	:	9Vdc, 300 mA
Remote Control Transmitter Frequency	:	433.92 MHz (BZT), 418 MHz (FCC)
Dimensions	:	appr. 13.4 x 12.2 x 5,2 cm (appr. 5.3 x 4.8 x 2 inches)
Weight	:	appr. 246g (appr. 8.7 ounces)

DESCRIPTION OF CONTENTS

Check to make sure that all of the items shown as below are included with your system. If something is missing, please contact your dealer as soon as possible.

Transmitter (with Remote Receiver)	1 x
Receiver (with Remote Transmitter)	1 x
Power adapters (230 Vac to 9Vdc) or (120 Vac to 9 Vdc)	2 x
Audio/Video (RCA to RCA) cable or Audio/Video (RCA zu SCART) cable	2 x
one for transmitter	
one for receiver	
IR-Sending Head with plug	1x