2.4GHz Digital Wireless A/V Sender

OWNER'S MANUAL

（PLEASE READ BEFORE USE）

PLEASE CONSULT THE BACK COVER OF THIS OWNER'S MANUAL FOR MODEL AND FEATURE

■ Important-Safety Precautions

- To prevent fire or shock hazard, do not expose this device to rain or moisture. Does not use near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.
- To avoid electrical shock, do not open this device.
- This device should be operated to use 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 electrical shock.
- Do not attempt to service this device yourself. 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 Part 15 of the FCC Rules, or R&TTE CE 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, if not installed and used in accordance with the instruction, it 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

A. Checking Contents of Box

Checks and make sure that all of the items shown as below are included with your 2.4 GHz Digital Wireless A/V Sender System. If something is missing, please contact your dealer as soon as possible.

1. **Transmitter** ×1

2. **Receiver** ×1

3. **Power adapter (optional)** ×2
   ☐ (120VAC to 5VDC)
   DC in Jack (⊖—(•—⊕ 5V ⎓ 1A)

4. **IR extender**
   to connect to transmitter ×1

5.Connector cables (Optional) ×2
☐ 3RCA plug to 3RCA plug AV cable

6. **Owner's manual** ×1

IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

B. Introduction to 2.4GHz Digital Wireless A/V Sender

Congratulations on purchasing this 2.4GHz Digital Wireless A/V Sender. This sender system is a digital wireless audio/video sender that uses 2.4GHz Frequency Hopping technology and GFSK modulation, and random ID codes to protect personal privacy.
There are over billion hopping sequences to minimize interference and deliver consistently an excellent video and audio quality up to 100 meters away.
This sender system also integrates an IR remote control extender to allow you to control the audio or video source from another room using your existing remote controller.

Using this 2.4GHz Digital Wireless A/V Sender, you can enjoy greater convenience and security in many ways:

General Application

- Watch the movie you rent on any TV in house without moving your DVD, laser disc player or running messy cables.
- Watch cable or satellite programs on any TV in house.
- Listen to stereo-quality music from your receiver on any powered speakers inside or outside the house.

Safety & Security Application:

- Connect a camera as a wireless security system.
- Monitor your sleeping baby, playing children, the elderly, or the disabled on TV using your existing camcorder.
- See who is outside the door on TV through your camera or miniature CCD camera.
- Monitors and records the meeting from another room.
- And many more uses!

■ The Using Attention

The outlet of the power supply must have the same voltage as the local area.

1. Be sure the transmitter and the receiver were connected to the equipment correctly (e.g. Connect the transmitter to the DVD or VCR, and the receiver to the TV).
2. When DC plug is pulled out from transmitter or receiver, it needs to wait for a few seconds in order to insert it again.
3. When switch is off from transmitter or receiver, it needs to wait for a few seconds in order to restart again.
4. Before you use, you must follow the instructions to complete the pairing code action.
5. Adjust antenna for least interference. (vertical or horizontal)
6. In most situations, one set of equipment has a better feature within 100 meter. When two equipment or more is used at the same time, It can automatic jump to different channels. But the distance between transmitter and transmitter (receiver and receiver), preferably greater than 1 meter above.
7. To be ensure the best remote control, please do not place the receiver under strong light.
8. Adjust antenna for least interference. (vertical or horizontal)
9. If there are some reasons cause the devise stop, you can try to turn power switch off then on again and make the devise re-link.
10. The remote control should face to the IR window of he receiver (there is an IR marker), and the transmitter IR extender should face to the IR window of the source A/V equipment. The IR remote control has to be within the standard distance.
11. To be ensure the best remote control, please do not place the receiver under strong light.

12. When the devise working, it will produce heat, so do not cover the

device with clothes or other things.

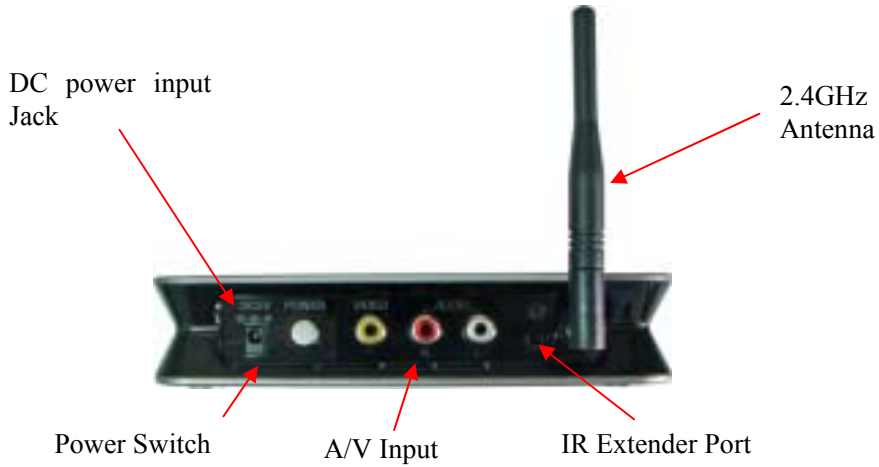
C. Product Layout

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

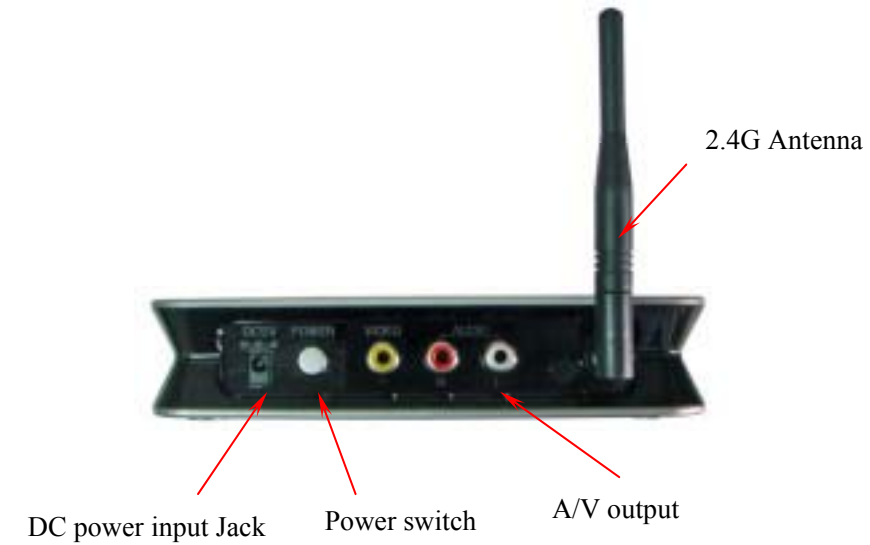
FRONT VIEW

TRANSMITTER **RECEIVER**

REAR VIEW FOR TRANSMITTER

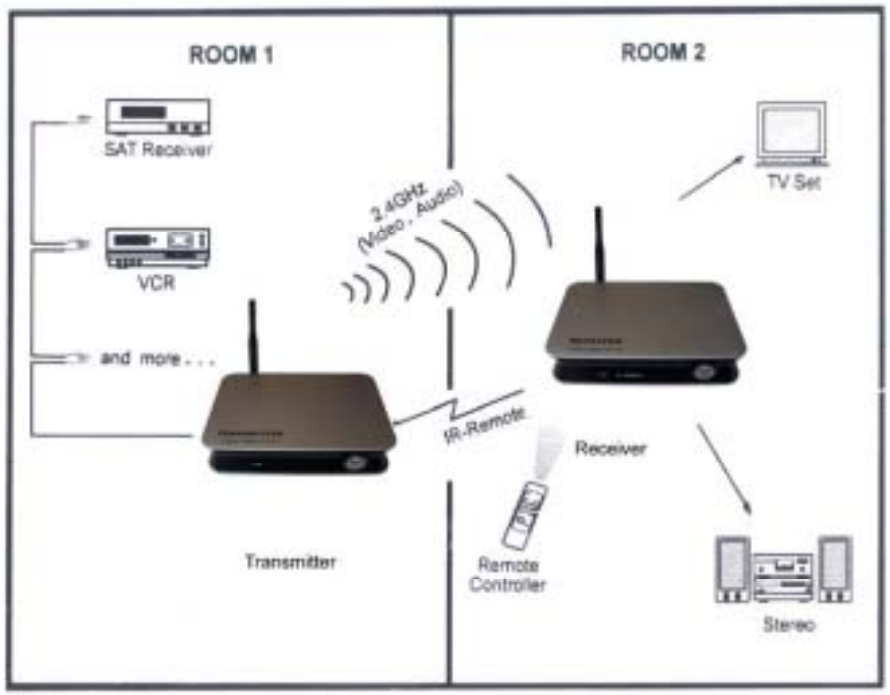


REAR VIEW FOR RECEIVER



D. Setting Up 2.4GHz wireless A/V Link

To enjoy wireless video and audio, just connect the transmitter 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.



A/V link system is suggested to connect to following A/V equipment use:

Video sources：	Audio sources：
• VCR	• Compact Disk player or Changer
• Cable set-top box (with A/V output)	• Stereo Receiver
• Satellite Receiver	• Cassette Deck
• Laser Disc Player	
• Camcorder or Miniature CCD Camera	
• Digital decoder	
• DVD	

■ How to pair the transmitter and receiver

Before shipment of this product has been matching ID code, you can instantly use. If you want to re-pair your code, you have to comply with the following instructions to the matching code.

Please see the follow pairing operation.

1. The first, push the power switch of transmitter and receiver and turn on both power switch. Then you can press the PAIR button on the front of the transmitter and not release until the LINK LED on the front of the transmitter begins to flash then you can release the PAIR button, and then the transmitter starts to enter the pairing state and automatically link ID code to the receiver.
2. During the LINK LED of transmitter is in flash state (around 35 seconds.), you need to press the PAIR button on the front of the receiver and not release until the LINK LED begin to flash then you can release the PAIR button, and then the receiver starts to enter the pairing state and automatically link ID code to the transmitter.
3. Please don't turn off their power switch during the receiver and transmitter is linking ID code with each other. When transmitter and receiver complete the matching code, their LINK LED will be lit directly. That means they have completed the pairing of work.

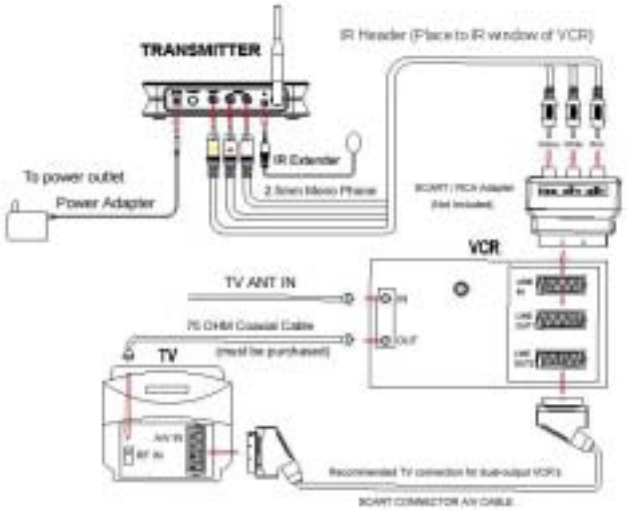
Note: **When you use a set the transmitter and receiver which has a pairing ID code, If you turn on the transmitter or receiver, you will find the link LED will light for 3 seconds, then off, and it will automatically start to pair to receiver or transmitter. If it finds matching objects, the link LED will be lighting, and if the time, the transmitter was connected with DVD or SAT., or VCR and the receiver was connected with TV, and then you will be able to watch the program of DVD or SAT., or VCR on your TV. If it can not find the matching object, it will always send matching code until it finds a matching objec**t.

■ How To Transmit Audio/Video from Your VCR or DVD

Connect VCR and transmitter with a 3RCA plug to 3RCA plug AV cable, just plug RCA plugs to RCA sockets of VCR and plug to A/V in port of transmitter.

If your VCR has only SCART socket for audio/video output, you can use a SCART/RCA adapter (not included) to connect the RCA plug of the transmitter and the SCART socket of VCR. Please follow the instruction figure below.

1. Plug one end of the power adapter into the back of the transmitter and the other end into any AC wall outlet. Use only the adapter provided.
2. If you VCR have only one set of A/V output jacks and you want to use it with a nearby TV. Connect 75ohm RF coaxial cable (not included) from the modulator signal OUT port on your VCR to the RF 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.)
3. Locate and orient the transmitter according to the section of this manual titled "Orienting Units for Optimum Performance" for best performance of transmitter.

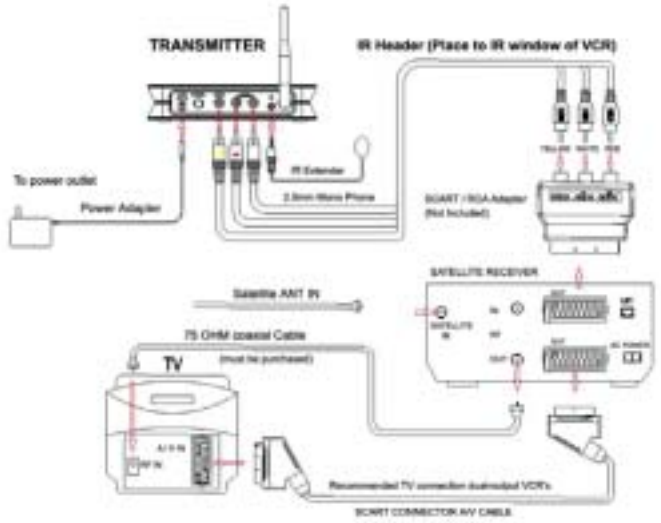


■ How To Transmit RCA from Your Satellite Receiver

You can transmit audio/video either directly from your satellite receiver, or by connecting them to your VCR. To transmit directly from your satellite receiver, follow the instructions below.

1. Connect satellite receiver and transmitter with RCA cable, just plug RCA plugs to RCA sockets of satellite receiver.
   If your satellite receiver has only SCART socket for audio/video output, you can use a SCART/RCA adapter (not included) to connect the RCA plug of the transmitter and the SCART socket of VCR. Please follow the instruction figure below.
2. Plug one end of the power adapter into the back of the transmitter and the other end into any AC wall outlet. Use only the adapter provided.
3. If your satellite receiver or laser disc player has only one set of A/V output jacks, in this case, please connect 75ohm RF coaxial cable from satellite receiver's modulator output port to TV RF input terminal.

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



■ How To Receive Wireless Audio/Video Signals on Your TV

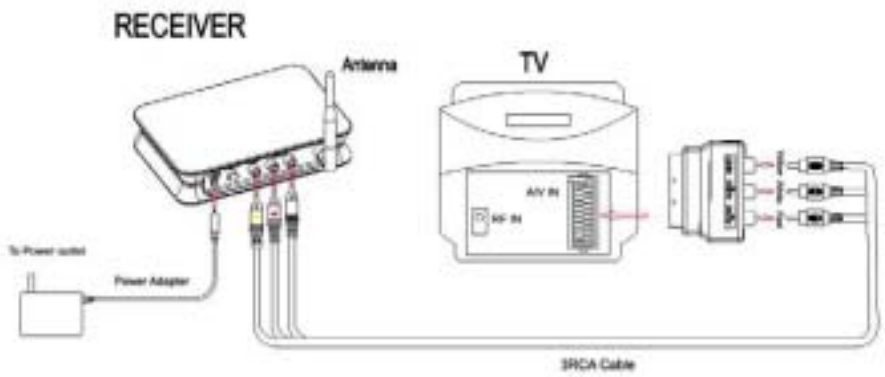
There are two ways to receiver wireless audio/video signals on your remote TV (TV in another location such as in bedroom, kitchen).

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

If your TV has picture-in-picture capabilities, you can view any image transmitted by sender, 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 Receiver Directly to Remote TV

Connect TV and receiver with RCA cable, just plug RCA plugs to receiver RCA sockets.
If your TV has only SCART socket for audio/video input, you can use a SCART/RCA adapter (not included) to connect the RCA plug of the transmitter and the SCART socket of TV. Please follow the instruction figure below.



■ 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. Connect VCR and receiver with RCA cable, just plug RCA plugs to the RCA input of VCR. If your VCR has only SCART socket for audio/video input, you can use a SCART/RCA adapter (not included) to connect the RCA plug of the transmitter and the SCART socket of TV. Then connect TV and SCART output of VCR using a “SCART to SCART A/V CABLE” (with must be purchased additionally). Please follow the instruction figure below.

2. If your TV has A/V input jacks, connect another set of A/V cables to the TV's A/V input jacks and to the A/V output jacks on your VCR.

3. If your TV does not have any A/V input jacks, please connect a 75ohm coaxial cable (not included) from the TV's antenna in (or RF in) to VCR's modulator output.

This feature is optional

4. Plug one end of the sender power adapter into the back of the receiver and the other end into any AC wall outlet.Use only the adapter provided.

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

E. Orienting Units for Optimum Performance

This sender system should be placed on a flat, stable surface to prevent damage to it from falling.

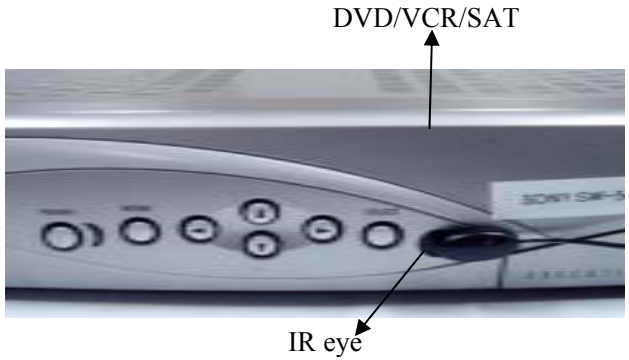
For optimum performance, the 2.4GHz antenna can be appropriate to adjust its direction, and to get the maximum operating range, you can try to minimize the number of obstacles (e.g. your TV or other electronics, large furniture) where between the transmitter and receiver units.

F. Using the Remote Control Feature

This sender system not only allows you to send crisp audio/video from one area to another, it also gives you the ability to control the source using your existing remote control device. It converts the infrared (IR) signal emitted by your remote control to a radio frequency (RF) signal in the receiver and sends it back to the transmitter where the RF signal is converted back to the original IR signal and control the audio/video source such as DVD ,VCR , etc.

In order to obtain optimum performance of the remote control extender, please operate as follow:

The first you need to plug the IR extender provided in the IR extender port of the transmitter and put the IR eye close to IR receiving window of A/V source, and then aim the existing remote control at the IR window of the receiver within 5 meter.



G. Troubleshooting, Care and maintenance

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 though the most common problems and their solutions.

Problem	Possible solutions
No picture or sound	• Check all cable connections. • Make sure power plugs are pushed all the way in. • Check power switches on the remote TV and Video source. (VCR, laser disc player, satellite receiver, ect.) • Check the power on/off switches on the transmitter and receiver. • Check if the LINK LED of the transmitter and receiver is lighting or not? Their LINK LED should be lit. • If Their LINK LED should not be lit, you can try to re-pair your code, but you have to comply with the user manual instructions to the matching code.
Interference: picture or audio	• Adjust receiver and transmitter antenna orientation. (see section on "Orienting Units for Optimum Performance" in this manual) • Try to place transmitter and receiver in a more close-in location. • If using a microwave oven, turn it off. • Remove microwave oven from path between transmitter and receiver.
Remote control extender does not work	• Check the path between the transmitter and the audio/video source and clear any obstructions. • Check to see if the IR window on the bottom front of the transmitter is blocked. • Make sure IR extender is properly rotated in the A/V equipment you wish to control.

Note: Clean the outside plastic packaging with a soft cloth lightly moistened with mild soap and water. Never use any abrasive scouring powder or solvent.

H. Specifications

Transmitter:

Operating Frequency Band	2.400GHz~2.4835GHz
Maximum Transmit Power	50mW
Modulation	16QAM/QPSK/BPSK
Video Input Level	1V p-p @ 75 ohm
Audio Input Level	1V p-p @ 600 ohm (STEREO)
Antenna	Omni-directional
IR–remote IR output	940nm with ON/OFF keying
Power consumption	1.9W
Power supply	5V/1A
Dimension(L x W x H)	148mm*99mm*29mm
Weight	160g

Receiver:

Operating Frequency Band	2.400GHz~2.4835GHz
Receiver Sensitivity	-80dBm min.
Video Output Level	1±0. 2V p-p @ 75 ohm
Audio Output Level	1±0. 2V p-p @ 600 ohm (STEREO)
Antenna	Omni-directional
Power consumption	1.9W
Power supply	5V/1A
Dimension	148mm*99mm*29mm
Weight	162g

System:

Video bit rate	up to 12 Mbps
Random ID code	up to 4 million sets
Video resolution	720 x 480 @ 30 fps (NTSC) or 768 x 576 @ 25 fps (PAL)
Operational range	up to 100 meter (line of sight)
Remote control range	up to 100 meter (line of sight)

•All specification subject to change without notice

IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. No change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.