

Installation Guide

2.4GHz Wireless Audio & Video Sender



CE FCC

WVS222



CAUTION



RISK OF ELECTRIC SHOCK. DO NOT OPEN.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).
NOUSER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Explanation of two Symbols



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance-(servicing) instructions in the literature accompanying the appliance.

THE GRAPHIC SYMBOLS WITH SUPPLEMENTAL MARKING ARE ON THE BOTTOM OF THE SYSTEM

**WARNING : To prevent fire or shock hazard, do not expose this appliance to rain, water, or wet locations.
Do not insert any metallic object through the ventilation grills.**

Important-Safety Precautions

- To prevent fire or shock hazard, do not expose this product to rain or moisture. Do 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 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.

IMPORTANT SAFEGUARDS

All the safety and operating instructions should be read before the appliance is operated and retained for future reference.

1. HEED WARNINGS - All warnings on the appliance and in the operating instructions should be adhered to.

2. FOLLOW INSTRUCTIONS - All operating instructions should be followed.

3. WATER AND MOISTURE - Do not use this video product near water - for example, a bathtub, washbowl, kitchen sink, laundry tub or swimming pool, or in a wet basement.

4. POWER SOURCES - This product should be operated only from the type of power source indicated on the marking label.

5. OVERLOADING - Do not overload outlets and extension cords, which can result in a risk of fire or electric shock.

6. SERVICING - Do not attempt to service this product yourself. Opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing or repairs to qualified service personnel.

7. DAMAGE REQUIRING SERVICE - Unplug this product from the wall outlet and refer servicing or repairs to qualified service personnel under the following conditions:

- a. When the power supply cord or plug is damaged.
- b. If liquid has been spilled or objects have fallen into the product.
- c. If the product has been exposed to rain or water.
- d. If the product does not operate normally by following the operating instructions.
- e. Adjust only those controls that are covered by the operating instructions.
- f. If the product has been dropped or the cabinet has been damaged.
- g. When the product exhibits a distinct change in performance.

8. REPLACEMENT PARTS - When replacement parts are required, be sure the service technician has used replacement parts that are specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

9. SAFETY CHECK - Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine if the video product is in proper operating condition.

10. An appliance and cart combination should be moved with care.

Do not place this equipment on an unstable cart, stand, or table. The equipment may fall, causing serious injury to a child or adult and serious damage to the equipment. Wall or shelf mounting should follow the manufacturer's instructions and should be done with a mounting kit approved by the manufacturer.

Note: This equipment has been tested and found to comply with the limits for CTC, 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 instruction, 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 encourage 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.

GENERAL DESCRIPTION

Congratulations on your purchase of the AVLink 2.4 GHz Wireless Audio & Video Sender System. The AVLink lets you enjoy satellite TV, DVD, VCR, CDs and many other audio/video media in another room - without purchasing additional components, moving existing components or running cables. The 2.4 GHz Wireless Audio/Video Transmitter uses wide-band FM to transmit true discrete stereo audio signals. The circular polarized high-gain directional transmitting and receiving antennas minimize interference, resulting in maximum clarity and a signal range of up to 300 feet (NTSC) 750 feet (PAL).

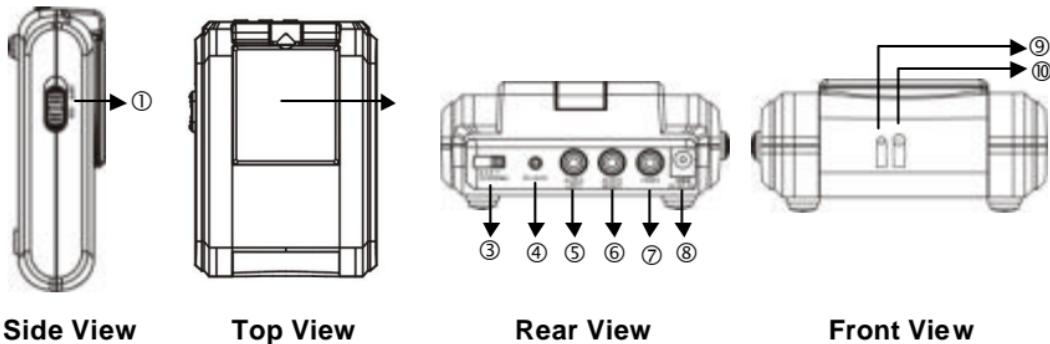
PACKAGE CONTENTS

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.

	2.4GHz Wireless Transmitter	X 1 pcs
	2.4GHz Wireless Receiver	X 1 pcs
	<ul style="list-style-type: none">• 120VAC to 9 VDC/300mA AC Power Adapters (FCC) or• 230VAC to 9 VDC/300mA AC Power Adapters (CE)	X 2 pcs
 or 	<ul style="list-style-type: none">• RCA-to-RCA A/V Cable (NTSC) or• RCA-to-SCART A/V Cable (PAL)	X 2 pcs
	IR Mouse	X 1 pcs

C. PRODUCTS ILLUSTRATIONS

C-1 2.4GHz Wireless Audio & Video Transmitter (WVS222-TXR or WVS222-TXN)



Side View

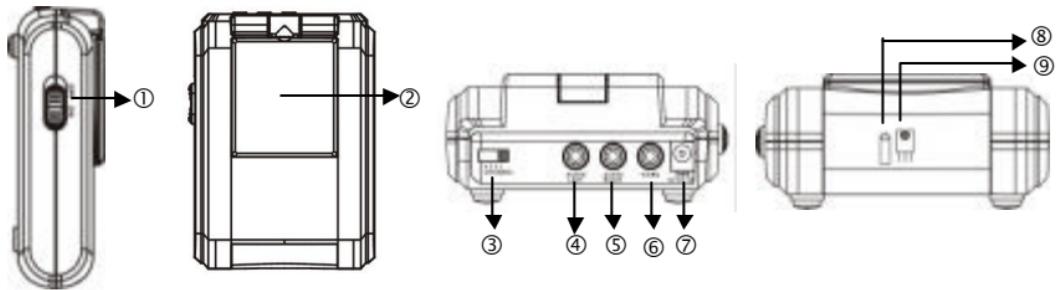
Top View

Rear View

Front View

1	ON / OFF	Power ON/OFF Switch
2	Antenna	High gain patch antenna sends audio and video signals to the wireless receiver
3	CHANNEL 1 2 3 4	Used to manually select channel settings 1-4
4	IR JACK	Connection for the IR extender accessory
5	AUDIO LEFT	RCA jacks for audio "L" input connector.
6	AUDIO RIGHT	RCA jacks for audio "R" input connector.
7	VIDEO	RCA jacks for video input connector.
8	9V DC IN	9VDC Power input
9	LED	Power Indicator
10	IR LED	IR Remote Receiver

C-2 2.4GHz Wireless Audio & Video Receiver



Side View

Top View

Rear View

Front View

1	ON / OFF	Power ON/OFF Switch
2	Antenna	High gain patch antenna receives audio and video signals from the wireless transmitter
3	CHANNEL 1 2 3 4	Used to manually select channel settings 1-4
4	AUDIO LEFT	RCA jacks for audio "L" input connector.
5	AUDIO RIGHT	RCA jacks for audio "R" input connector.
6	VIDEO	RCA jacks for video input connector.
7	9V DC IN	9VDC Power input
8	IR SENSOR	IR sensor to Receive the IR signal from the remote controller
9	IR LED	IR Remote Transmitter

D. INSTALLATION

D-1 HOW TO CONNECT TRANSMITTER SIGNAL FROM YOUR VCR / SATELLITE / DVD



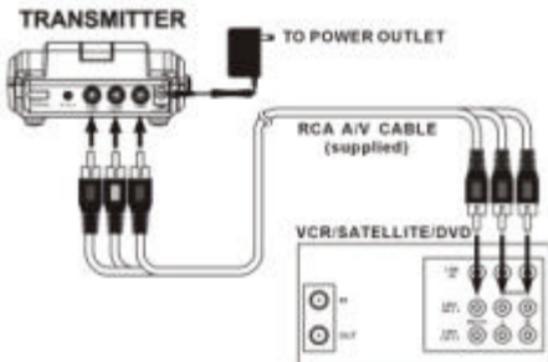
NOTE The power of Transmitter must be switched OFF prior to proceeding the following steps.

Step 1.

Connect one end of the supplied A/V cables (RCA-to-RCA or RCA-to-SCART) to the Audio/Video jacks of the Transmitter; the other end to the Audio/Video Output jacks of the VCR/Satellite/DVD. Be sure that the yellow, red and white plugs match the yellow, red and white jacks on both the VCR/Satellite/DVD and the Transmitter.

Step 2.

Plug one end of the supplied AC Adapter (9VDC, 300 mA adapter) into the back of the Transmitter, another end into any 230 volt (or 110 volt) wall outlet.. Use only the adapter provided. The system is defaulted to channel 1. Turn the Transmitter on and ensure that the Transmitter and Receiver are set to the same channels.



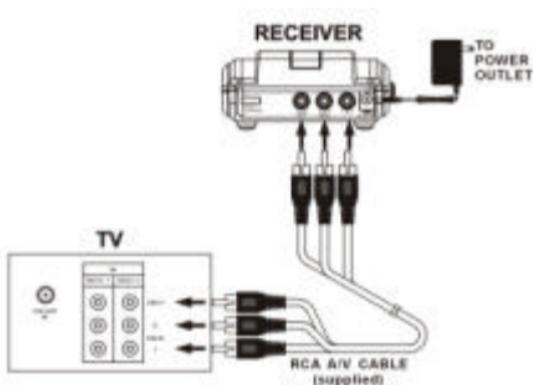
D-2 HOW TO CONNECT RECEIVER TO A TV



NOTE The power of Receiver must be switched OFF prior to proceeding the following steps.

Step 1.

Connect one end of the supplied A/V cables (RCA-to-RCA or RCA-to-SCART) to the Audio/Video jacks of the Receiver; the other end to the Audio/Video Input jacks of the TV. Be sure that the yellow, red and white plugs match the yellow, red and white jacks on both the TV and the Receiver. If the TV has only a single jack for audio input, connect the white plug to that jack.



Step 2.

Plug one end of the supplied AC Adapter (9V DC, 300 mA adapter) into the back of the Receiver, another end into any 230 volt (or 110 volt) wall outlet.. Use only the adapter provided.. The system is defaulted to channel 1. Turn the Receiver on and ensure that the Receiver and Transmitter are set to the same channels.

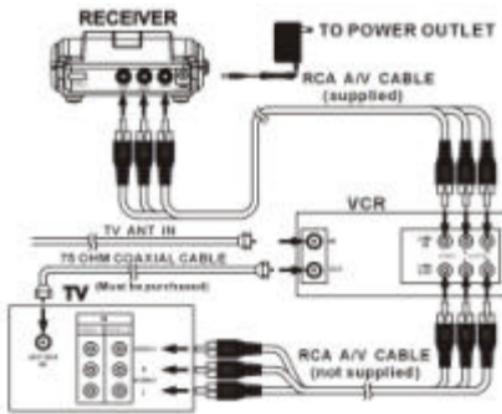


NOTE If your TV has picture-in-picture capabilities, you can view any image transmitted by system, such as your sleeping baby, in a small inset picture while enjoying other programming on the rest of the screen. Consult the owner's manual of your TV for instructions on using these capabilities.

D-3 HOW TO CONNECT RECEIVER TO A TV THROUGH A VCR

NOTE

The power of Receiver must be switched OFF prior to proceeding the following steps.



- Step 1.** Connect one end of the supplied A/V cables (RCA-to-RCA or RCA-to-SCART) to the Audio/Video jacks of the Receiver; the other end to the Audio/Video Input jacks of the VCR. Be sure that the yellow, red and white plugs match the yellow, red and white jacks on both the VCR and the Receiver. If the VCR has only a single jack for audio input, connect the white plug to that jack.
- Step 2.** If your TV has A/V input jacks, connect another set of A/V cable (must be purchased) to the TV's A/V input jacks and to the A/V output jacks on your VCR.
- Step 3.** If your TV does not have any A/V input jack, in this case, please connect a 75 ohm coaxial cable from the TV's antenna in (or VHF/UHF in) to VCR's modulator output.
- Step 4.** Plug one end of the power adapter into the back of the receiver and the other end into any 230 volt (or 110 volt) wall outlet. Use only the adapter provided.

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.

E. ORIENTING ANTENNA FOR OPTIMAL PERFORMANCE

The 2.4 GHz Wireless Audio & Video Sender System broadcast its high-quality audio and video using directional antennas that must be oriented in certain configurations for the best results. If the Transmitter and Receiver are less than 10 feet apart, keep the A/V antennas flat in their casings; otherwise, please follow the below instruction figures to orient the A/V antennas for optimal performance.

Antenna's labeled side must be faced each other



TRANSMITTER
(Side View)



RECEIVER
(Side View)

Figure 1.

Antenna's labeled Side must be faced each other



TRANSMITTER
(Side View)



RECEIVER
(Side View)

Figure 2.

Antenna's labeled side must be faced each other



TRANSMITTER
(Front View)



RECEIVER
(Front View)

Figure 3.

NOTE

The system should be placed on a flat, stable surface to prevent damage to it from falling. For uneven or slick surfaces, such as the top of your TV, Audio/Video equipment, or entertainment center, fastener strips have been provided to secure the units (cut the strips into smaller squares with scissors).

NOTE

Do not rotate the antenna of Transmitter and Receiver beyond 270°. Rotating antennas beyond the specified range will result in permanent damage to the antenna and mechanical stopper.

F. HOW TO CONNECT AND USE THE IR EXTENDER WITH YOUR REMOTE CONTROL

The 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 (feature not available on WVS222-TXN and WVS222-RXN). It converts the infrared (IR) signal emitted by your remote control to a radio frequency (RF) signal in UHF band at the Receiver (WVS222-RXR) and sends it back to the Transmitter (WVS222-TXR) where the RF signal is converted back to the original IR signal and beamed to the audio/video source.

The IR extender connects to the Transmitter through its own special connector plug. The extender emits an IR signal, bathing your AV equipment with the remote signal. To use the IR extender, follow the instructions below.

Step 1. Plug the IR extender into the Transmitter in rear panel.

Step 2. Orient the end of the IR extender so that it points in the general direction of the IR sensors of the source AV equipment you wish to control. Use soft pad of provided to secure the IR extender always in it's position.

Step 3. Position the Receiver so that your remote control signal can strike the IR window on the bottom front of the unit. To use your remote controller supplied from the source AV equipment, points it at the front of the Receiver.

G. TROUBLE SHOOTING

If the system does not function properly, check the following points before contacting the service center:

Problem	Possible Solutions
No picture or sound	<ol style="list-style-type: none">1. Check the power on/off switches on the Transmitter and Receiver.2. Check power switches on the remote TV and video source (VCR, Laser Disc Player, Satellite Receiver, etc.).3. Be sure power plugs are pushed all the way in. Check all cable connections.
Interference: Noisy picture or audio	<ol style="list-style-type: none">1. Adjust Receiver and Transmitter antenna orientation (see Page 9 on "ORIENTING ANTENNA FOR OPTIMAL PERFORMANCE" in this Manual). 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 extender does not work	<ol style="list-style-type: none">1. Check the path between the Transmitter and the audio/video source and clear any obstructions.2. Check to see if the IR window on the front of the Transmitter is blocked.3. Be sure IR extender is properly rotated in the A/V equipment you wish to control (see Page 10 on "HOW TO CONNECT AND USE THE IR EXTENDER WITH YOUR REMOTE CONTROL" in this manual).

H. SPECIFICATIONS

TRANSMITTER	
Transmitting Frequency	2.4GHz ~ 2.4835 GHz
Max. Range (clear line of sight)	300 Feet (NTSC) 750 Feet (PAL)
Modulation	FM
Output Level	0dBm (NTSC) 10dBm (PAL)
Video Input Level	1V p-p @ 75 ohms
Audio Input Level	1V p-p @ 600 ohms
Video Input Impedance	75 ohms
Audio Input Impedance	600 ohms
IR Mouse Extender Freq. (only for WVS222-TXR)	418MHz (NTSC) 433MHz (PAL)
Operation Temperature	0°C ~ 40°C (32°F ~ 104°F)
Power Supply	9VDC, 300mA
Dimensions (cm)	13.9L X 10.2W X 4.8H (5.5" L X 3.8" W X 2.0" H)
Weight	243g (8.6 ounces)

RECEIVER	
Receiving Frequency	2.4GHz ~ 2.4835 GHz
Max. Range (clear line of sight)	300 Feet (NTSC) 750 Feet (PAL)
Output Level	1 volt p-p (video) 1 volt p-p (audio)
Noise Figure	3.5dB
IR Remote Operate Frequency (only for WVS222-RXR)	418MHz (NTSC) 433MHz (PAL)
Operation Temperature	0°C ~ 40°C (32°F ~ 104°F)
Power Supply	9VDC, 300mA
Dimensions (cm)	13.9L X 10.2W X 4.8H (5.5" L X 3.8" W X 2.0" H)
Weight	243g (8.6 ounces)

IMPORTANT NOTE:

- The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- To comply with 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.