



**2.4GHz Wireless Multi-Sources AV Sender**

# **OWNER'S MANUAL**

**(PLEASE READ BEFORE USE)**

**TX**



**RX**



**CE 0336!**

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## A. Important-Safety Precautions

This device of which operation is subject to the following two condition

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

- To prevent fire or shock hazard, do not expose this device 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 device.
- The ventilation should not be impeded by covering the ventilation openings with items such as newspapers table-cloths, curtains, etc.
- 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 device has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules, or BZT and CE EMC directive. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device 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 device does cause harmful interference to radio or television reception, which can be determined by turning the device 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 receiver.
- 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.

## **B. Introduction to 2.4GHz Wireless AV Link**

This device is a wireless audio/video sender that uses advanced wireless communication technology to deliver consistently sharp audio and video up to 100 meters away. By transmitting at a very high frequency (2.4GHz), it avoids the crowded 900MHz band used by many cordless telephones and other wireless audio/video transmitters. It's superior quality is due to wide-band FM rather than AM signal modulation.

This device allows you to select transmitter's images from 4 different video equipment (digital satellite receiver, analog satellite receiver, CD, DVD, camcorder, etc.) onto your secondary television set with a supplied remote (RC-2) from the location where the receiver is used (e.g. at your remote TV). This device also allows you to select transmitter's images from 4 different video equipment onto your secondary television set and main television set with another supplied remote (RC-1) from the location where the transmitter is used or manual button on the transmitter.

Thanks to the IR extender built in the device, this allows you to operate your video equipments with your original remote from the location where the receiver is used.

This device allows you to watch the different video program on your secondary TV and your main TV simultaneously.

## **Using this device, 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 VCR, 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.
- Uses multi-receivers for broadcasting to numerous TV sets in other rooms.
- Uses as a baby sitter to watch your baby anytime and anywhere at home.
- Show computer images on a remote TV. (Additional equipment required)

### **Safety & Security Application**

- Applies 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.
- And many more uses!

## **C. The Using Attention**

1. The outlet of the power supply must have the same voltage as the local area.
2. Be sure the transmitter and the receiver were connected to the equipment correctly (e.g. Connect the transmitter to the VCR, and the receiver to the TV).
3. When switching off transmitter or receiver, it needs to wait for a few seconds in order to restart again.

4. In most situation, one set of equipemt has a better feature within 100 meter. When two equipment or more is used at the same time, you need use different channels. But a transmitter can be used with several receivers at the same time.
5. The channel SW allows you to choose the channel for best feature and least interference.
6. When the device is operating, please do not use a microwave over near by.
7. The remote control should face to the receiver IR remote control window, and the transmitter IR remote control window (or IR extender) should face to the source AV equipment. The IR remote has to be within the standard distance.



- |                       |     |
|-----------------------|-----|
| 5. RF coaxial cable   | × 1 |
| 6. □ RCA to RCA Cable | × 2 |
| 7. IR extend mouse    | × 1 |
| 8. Fasten strips      | × 1 |
| 9. Owner's manual     | × 1 |

### D. Checking Contents of Box

Checks to make sure that all of the items shown as below are included with your 2.4GHz Wireless Multi-Source AV Sender System. If something is missing, please contract your dealer as soon as possible.



1. Transmitter × 1



2. Receiver × 1

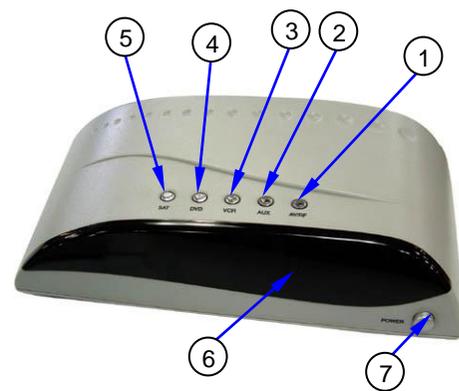


3. Remote control × 2

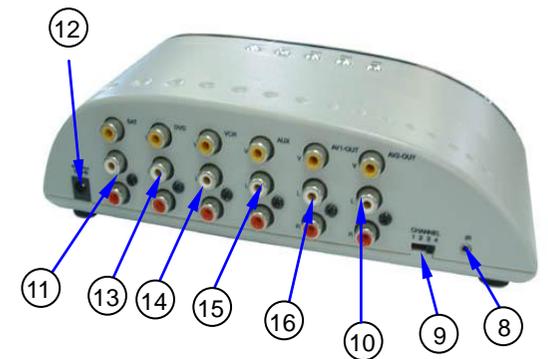


4. Power adaptor × 2  
 □ (230VAC TO 9VDC) or   
 □ (120VAC TO 9VDC  
 DC in Jack (⊖ ⊕) 9V 400mA

### E. Panel Controls and Features



FRONT VIEW



REAR VIEW

**Transmitter**

## Transmitter controls and features:

The device allows you to record your AV equipment is set in CABLE AV status (that is the AV equipment indicator lights red or yellow).

- 1. AV/RF:** AV/RF switch button and status indicator, when the equipment is in CABLE AV transmission status, the LED lights red. When the equipment is in RF transmission status, the LED lights green.
- 2. AUX:** Additional other video equipment signal button and status indicator such as cable TV or Laser Disc player or camcorder or security camera or computer (converter card required), etc. When LED lights red it indicates the AUX equipment signal is only transmitted in CABLE AV Transmission path for watching AUX equipment program on the main TV 1 set. When LED lights green, it indicates AUX equipment signal is only transmitted in the RF transmission path for watching AUX equipment program on the secondary TV2 set.  
When LED lights yellow it indicated AUX equipment signal is transmitted in the RF transmission path and the CABLE AV path. This means that you can watch AUX equipment program on the secondary TV 2 Set and the main TV1 simultaneously, you can watch AUX device program on the main TV 1 Set as well.
- 3. VCR:** VCR program signal button and status indicator. When LED lights red, it indicates VCR signal is only transmitted in CABLE AV transmission path for watching VCR program on the main TV 1 set. When LED lights green, it indicates VCR signal is only transmitted in the RF transmission path for watching VCR program on the secondary TV 2 set. When LED lights yellow it indicates VCR signal is transmitted in the RF transmission path and the CABLE AV path simultaneously. This means you can watch VCR program on the main TV1 and the secondary TV2 simultaneously.
- 4. DVD:** DVD program signal button and status indicator. When LED lights

red, it indicates DVD signal is transmitted in the CABLE AV path for watching DVD program on the main TV1 set. When LED lights green, it indicated DVD signal is only transmitted in the RF transmission path for watching DVD program on the secondary TV 2 set. When LED lights yellow, it indicates DVD signal is transmitted in the RF transmission path and the CABLE AV path simultaneously. This means you can watch DVD program on both the main TV1 and the secondary TV2 simultaneously.

- 5. SAT:** SAT program signal button and status indicator. When LED lights red, it indicates SAT signal is transmitted in the CABLE AV path for watching SAT program on the main TV1 set. When LED lights green, it indicated SAT signal is only transmitted in the RF transmission path for watching SAT program on the secondary TV 2 set. When LED lights yellows, it indicated SAT signal is transmitted in the CABLE AV path and the RF transmission path. This means that you can watch SAT program on both the main TV1 set and the secondary TV2 set simultaneously.
- 6. IR remote control window:** the AV equipment required can be selected by the IR remote control supplied (RC-1) for sending AV signal required to transmitter or TV 1 main set for monitoring.
- 7. Power:** power ON/OFF switch. When switching on the LED 5(SAT) will light red and LED 1(AV/RF) will light yellow. The device is in the original status.
- 8. IR:** IR input jack for the infrared extender mouse.
- 9. CH SW:** channel switch for selecting 2.4GHz channel transmitter and receiver should be same channel (1.2.3.4).
- 10/16 AV2-out/ AV1-out socket:** Output for Audio and Video signals from your AUX equipment input for watching the program of the AV equipment required on the main TV 1 set.
- 11. SAT input socket:** input for audio and video signals form your Satellite equipment.
- 12. Power input jack:** The supplied mains adaptor is connoted to this input

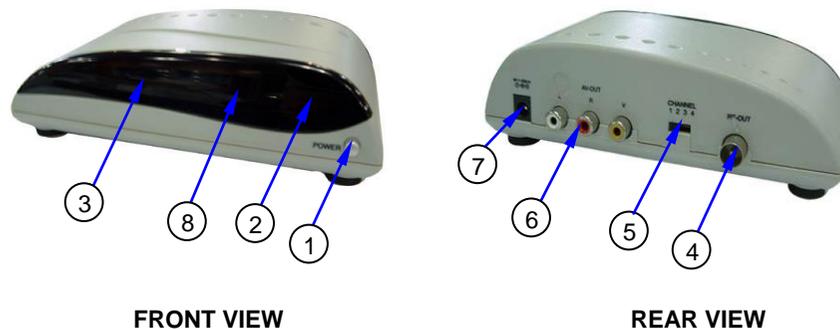
jack.

**13. DVD input socket:** input for Audio and Video signals from your DVD equipment.

**14. VCR Input socket:** input for Audio and Video signals from your VCR equipment.

**15. AUX Input socket:** input for Audio and Video signals from your AUX equipment.

## Receiver controls and Features.



FRONT VIEW

REAR VIEW

Receiver

### Receiver:

- 1) Power: power on/off switch. When switched on the LED ② will light up.
- 2) LED indicator: power indicator.
- 3) IR remote control window: Where the IR receiver is built-in. The AV equipment required can be selected by the IR remote control supplied (RC-2). When you operate remote control required to transmitter, the AV signal LED ⑧ will flash.
- 4) 75Ω antenna output: for connecting RF signal to the antenna input of the

Secondary TV set if your TV set does not have an AV RCA input.

5) CH SW: channel selector to set the 2.4GHz channel setting of receiver and transmitter should be the same (1, 2, 3, 4).

6) A/V output RCA socket: output for Audio and Video signals to your TV set.

7) Power input jack: The supplied mains adaptor is connected to this input jack.

8) Signal indicator LED: When you operate remote control required to transmitter, the AV signal LED will flash.

### RC-1 Button descriptions

#### PART I AV

SAT, DVD, VCR, AUX.

Used to select the AV equipment required for watching on the main TV 1 set.

#### PART II RF

SAT, DVD, VCR, AUX.

Used to select the AV equipment required for watching on the secondary TV 2 set.



RC-1

### RC-2 Button descriptions

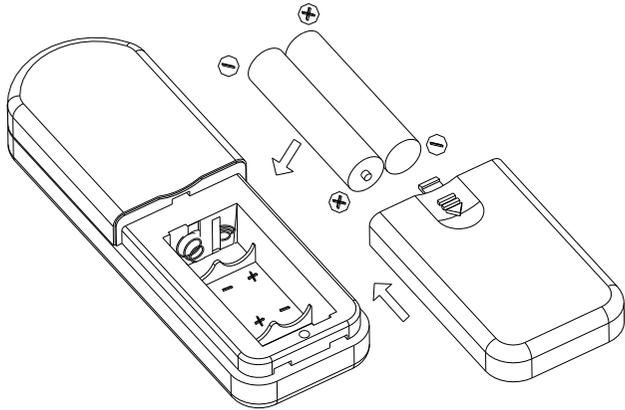
SAT, DVD, VCR, AUX.

Used to select the AV source required for Watching on the secondary TV 2 set.



RC-2

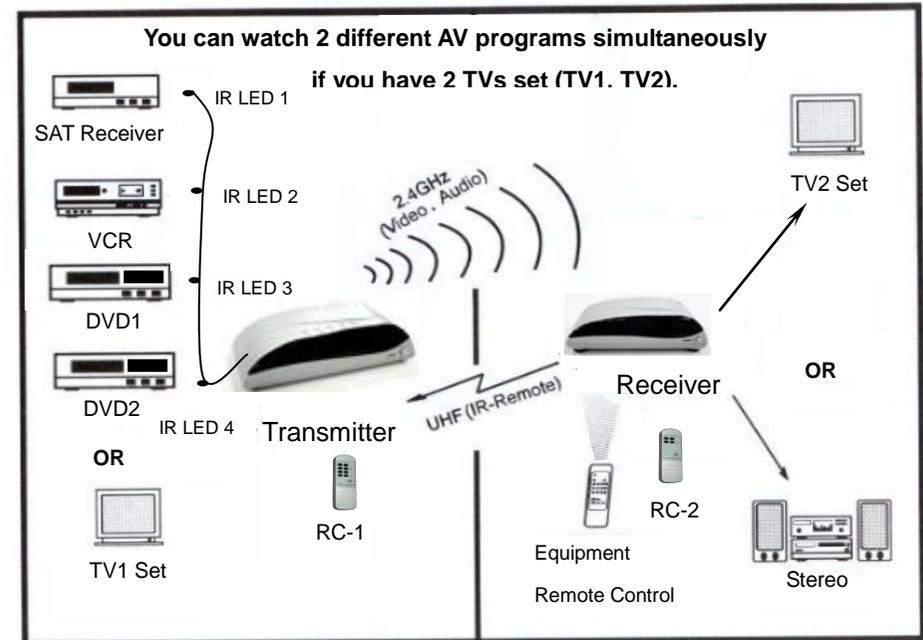
## Installing Batteries



1. Open the battery compartment cover.
2. Insert 2×“LR6” –size batteries (provided) in the correct directions.
3. Replace the cover.

## F. Setting up 2.4GHz wireless Multi-Source AV Sender

To enjoy wireless video and audio, just connect the transmitter to your audio/video equipments or your main TV set (TV1) and connect the receiver to the TV2 or powered speakers in that other location.



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

### Video source:

- VCR
- Cable set-top box (with AV output)
- Satellite Receiver
- Laser Disc Player
- Camcorder or Miniature CCD Camera
- Computer
- Digital decoder
- DVD

### Audio source:

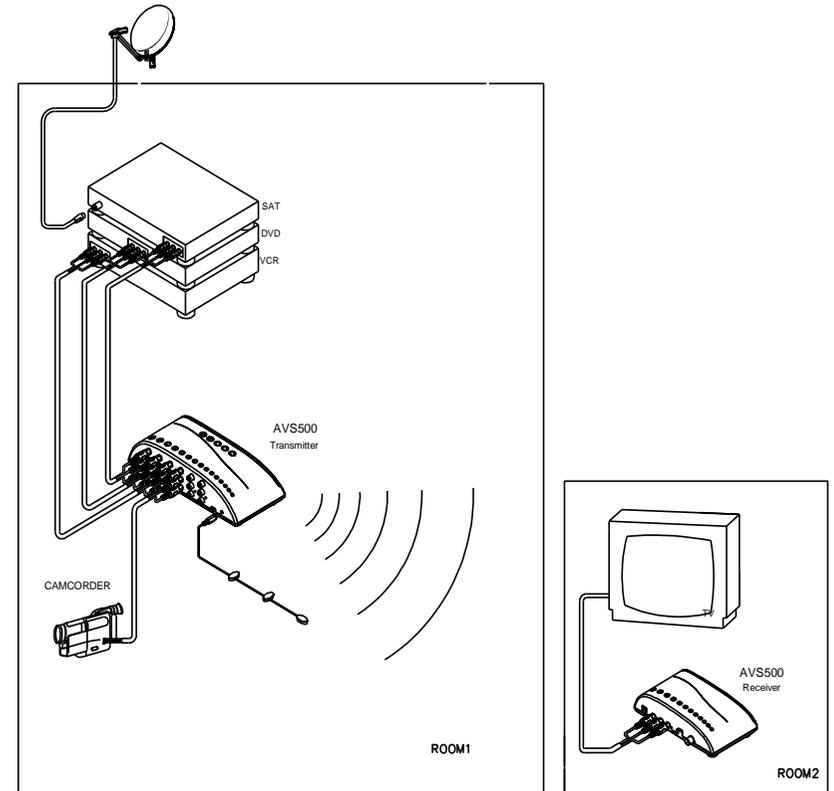
- Compact Disk player or Changer
- Stereo Receiver
- Cassette Deck

## G. Installation

- According to your AV equipments, please chose one is shown on diagram1-digaram4
- Connect two power adaptors supplied to the “9V DC Power Supply” jack located on the rear of the Transmitter and Receiver.
- Connect the IR extender mouse for the equipment which you want to control on your secondary TV set (SAT, VCR, DVD, etc.)

### Installation diagram 1:

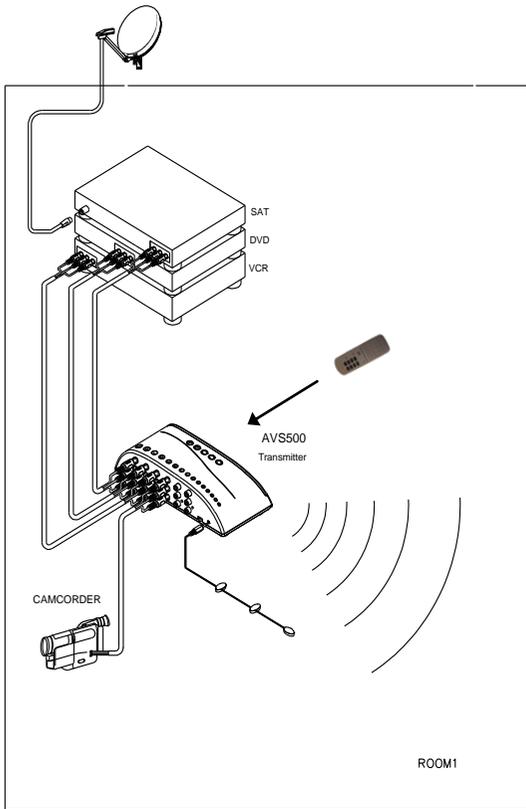
You have 4 AV equipments as AV source (e. q. Satellite, DVD, VCR, Laser Displayer or Security Camera, etc.)



System Interconnect Diagram 1

**Installation diagram 2:**

You have 3 AV equipments as sources

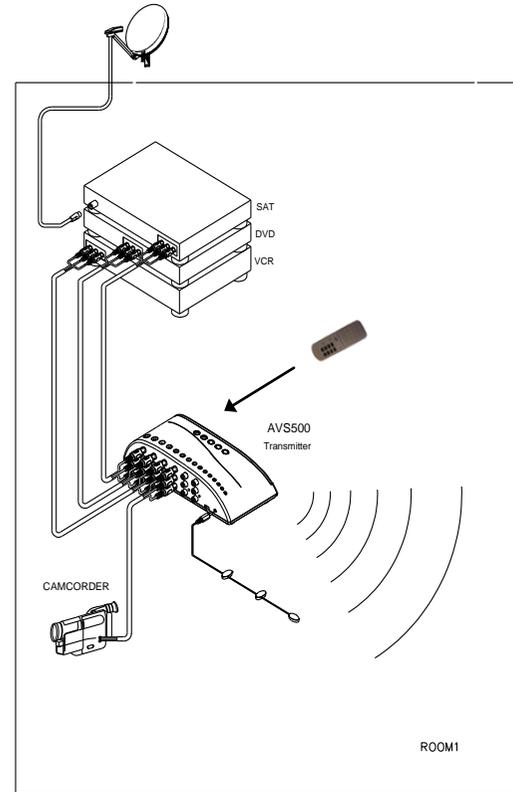


You can watch the different AV program on your main TV set and secondary TV set simultaneously

System Interconnect Diagram 2

**Installation diagram 3:**

You have 4 AV equipments as sources

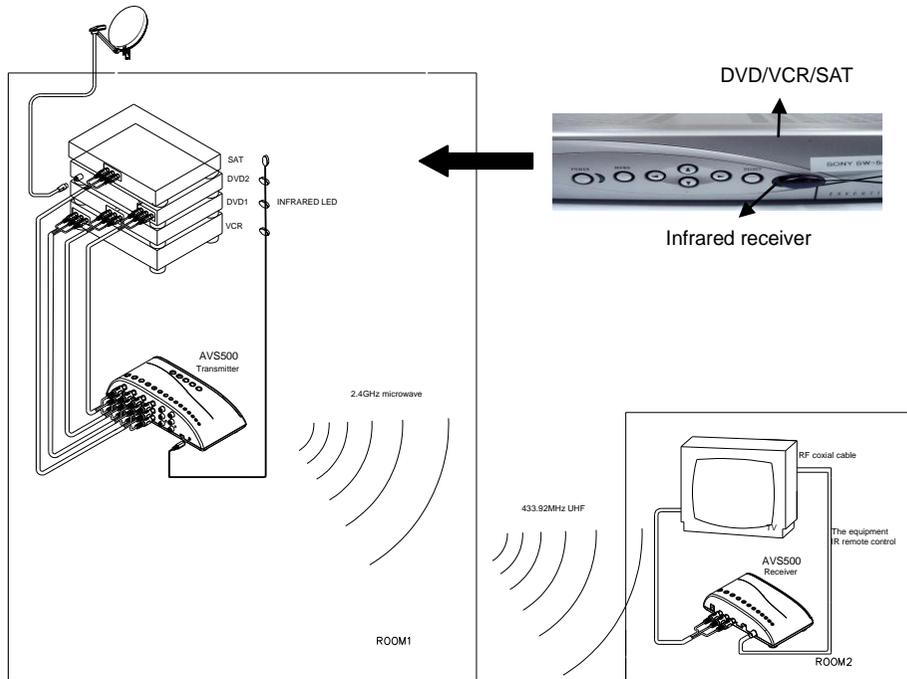


You can watch the different AV program on your main TV set and secondary TV set simultaneously

System Interconnect Diagram 3

## Installation diagram 4:

### How to use the IR extender mouse if you have 4 equipments?



System Interconnect Diagram 4

## H. Use

The Multi-source system with 4 RCA inputs on the rear of the transmitter, allows you to send 4 different AV programs to your secondary TV and the main TV. To select a AV program from the secondary TV or the main TV with a remote control supplied (Transmitter: RC-1; Receiver: RC-2). Also allows you to select a AV program by pressing function buttons on transmitter.

### Note:

**You must always make sure that the transmitter and the receiver are working on the same channel.**

### • On the Transmitter:

#### A. Setting up by manual for SAT, DVD, VCR and AUX equipments.

##### 1. Initial status

- 1.1 Turn on the device. **AV/RF** indicator LED will light red. It indicated transmission way is in CABLE AV status.
- 1.2 **SAT** indicator LED will light yellow. It indicated **SAT** signal is transmitted by RF way and CABLE AV way Simultaneously. This means that you can watch **SAT** program on your main TV and secondary TV simultaneously.
- 1.3 Slide the channel select SW for selecting a channel wanted.

##### 2. Press AV/RF switch button on the device once for selecting signal transmission path is on the CABLE AV or RF transmission.

- 2.1 When the LED lights red, it indicates the device is in CABLE AV transmission status.
- 2.2 When the LED lights green, it indicates the device is in RF Transmission status.

##### 3. Press **AUX** button on the device once.

- 3.1 When **AUX** indicator LED lights Red, it indicates **AUX** signal is only transmitted by CABLE AV way, this means that you can only watch **AUX** program on your main TV.

- 3.2 When **AUX** indicator LED lights green, it indicates **AUX** signal is only transmitted by RF path way. This means that you can only watch **AUX** program on your secondary TV.
- 3.3 When **AUX** indicator LED lights yellow, it indicates **AUX** signal is transmitted by RF and CABLE AV path way simultaneously. This means that you can watch **AUX** program on your main TV and secondary TV simultaneously. When indicator LED lights off, it indicated **AUX** signal will not be selected.
- 4. Press **VCR** button on the device once.
  - 4.1 When **VCR** indicator LED lights Red, it indicates **VCR** signal is only transmitted by CABLE AV way, this means that you can only watch **VCR** program on your main TV.
  - 4.2 When **VCR** indicator LED lights green, it indicates **VCR** signal is only transmitted by RF path way. This means that you can only watch **VCR** program on your secondary TV.
  - 4.3 When **VCR** indicator LED lights yellow, it indicates **VCR** signal is transmitted by RF and CABLE AV path way simultaneously. This means that you can watch **VCR** program on your main TV and secondary TV simultaneously. When indicator LED lights off, it indicated **VCR** signal will not be selected.
- 5. Press **DVD** button on the device once.
  - 5.1 When **DVD** indicator LED lights Red, it indicates **DVD** signal is only transmitted by CABLE AV way, this means that you can only watch **DVD** program on your main TV.
  - 5.2 When **DVD** indicator LED lights green, it indicates **DVD** signal is only transmitted by RF path way. This means that you can only watch **DVD** program on your secondary TV.
  - 5.3 When **DVD** indicator LED lights yellow, it indicates **DVD** signal is transmitted by RF and CABLE AV path way simultaneously. This means that you can watch **DVD** program on your main TV and secondary TV simultaneously. When indicator LED lights off, it indicated **DVD** signal will not be selected.
- 6. Press **SAT** button on the device once.

- 6.1 When **SAT** indicator LED lights Red, it indicates **SAT** signal is only transmitted by CABLE AV way, this means that you can only watch **SAT** program on your main TV.
- 6.2 When **SAT** indicator LED lights green, it indicates **SAT** signal is only transmitted by RF path way. This means that you can only watch **SAT** program on your secondary TV.
- 6.3 When **SAT** indicator LED lights yellow, it indicates **SAT** signal is transmitted by RF and CABLE AV path way simultaneously. This means that you can watch **SAT** program on your main TV and secondary TV simultaneously. When indicator LED lights off, it indicated **SAT** signal will not be selected.

#### **B. Setting up by remote control for SAT, DVD, VCR and AUX equipments (RC-1)**

The Multi-Source sender system has a build in infrared controller in transmitter and receiver, this infrared controller lets you select your Satellite receiver, VCR, DVD player and othr AUX equipments. Which are set up at the front side of the transmitter and receiver.

To use the infrared controller, point your remote at the infrared receiver which is located behind ithe window at the front of the transmitter and receiver.

1. Pressing **SAT** button on the remote control RC-1 located beside the “RF” marking, **SAT** indicator LED on the device will light green. It indicates **SAT** signal is transmitted by RF path way, this means that you can watch **SAT** program on your secondary TV.
2. Pressing **DVD** button on the remote control RC-1 located beside the “RF” marking, **DVD** indicator LED on the device will light green. It indicates **DVD** signal is transmitted by RF path way, this means that you can watch **DVD** program on your secondary TV.
3. Pressing **AUX** button on the remote control RC-1 located beside the “RF” marking, **AUX** indicator LED on the device will light green. It indicates **AUX** signal is transmitted by RF path way, this means that you can watch **AUX** program on

your secondary TV.

4. Pressing **VCR** button on the remote control RC-1 located beside the “RF” marking, **VCR** indicator LED on the device will light green. It indicates **VCR** signal is transmitted by RF path way, this means that you can watch **VCR** program on your secondary TV.

5. Pressing **SAT** button on the remote control RC-1 located beside the “AV” marking, **SAT** indicator LED on the device will light red, it indicates **SAT** signal is transmitted by CABLE AV path way. This means that you can watch **SAT** program on your main TV.

6. Pressing **DVD** button on the remote control RC-1 located beside the “AV” marking, **DVD** indicator LED on the device will light red, it indicates **DVD** signal is transmitted by CABLE AV path way. This means that you can watch **DVD** program on your main TV.

13. Pressing **AUX** button on the remote control RC-1 located beside the “AV” marking, **AUX** indicator LED on the device will light red, it indicates **AUX** signal is transmitted by CABLE AV path way. This means that you can watch **AUX** program on your main TV.

14. Pressing **VCR** button on the remote control RC-1 located beside the “AV” marking, **VCR** indicator LED on the device will light red, it indicates **VCR** signal is transmitted by CABLE AV path way. This means that you can watch **VCR** program on your main TV.

#### **On the Receiver:**

Slide the channel select SW for selecting a same channel as Transmitter, then turn on the device.

#### **A.Setting up by remote control for SAT, DVD, VCR and AUX equipments. (RC-2)**

1. Pressing **SAT** button on the remote control RC-2 located beside the “RF” marking, **SAT** indicator LED on the device will light green, it means that you can watch **SAT** program on your secondary TV.

2. Pressing **DVD** button on the remote control RC-2 located beside the “RF” marking, **DVD** indicator LED on the device will light green, it means that you can watch **DVD** program on your secondary TV.

3. Pressing **AUX** button on the remote control RC-2 located beside the “RF” marking, **AUX** indicator LED on the device will light green, it means that you can watch **AUX** program on your secondary TV.

4. Pressing **VCR** button on the remote control RC-2 located beside the “RF” marking, **VCR** indicator LED on the device will light green, it means that you can watch **VCR** program on your secondary TV.

### **I. 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 AV equipment using your existing remote control. It converts the infrared (IR) signal emitted by your remote control to a radio frequency (RF) signal in UHF band at the receiver and sends it back to the transmitter where the RF signal will be converted back to the original IR signal and beamed to the audio/video equipment.

The Multi-Source sender system has a built in infrared extender, this infrared extender lets you control your AV equipments as Satellite receiver, VCR, DVD player and other AUX devices, which are set up at the transmitter side, through walls and floors.

To use the infrared extender, point the original remotes of your equipment at the infrared receiver which is located behind the window at the front of the receiver.

To use the infrared extender you must have the infrared extension cable connected to the rear of the transmitter.

1. Plug the infrared extender into the 2.5mm phone jack located at the rear of the transmitter.
2. Locate the small IR LED on the IR receiver of the AV equipments connected. Take a fastener strip supplied to secure the IR extender, remove the small IR LED and affix it lightly on the panel of your AV equipments, it may take some

adjustments to find the right location.

**You have 4 LEDs at your disposal to control 4 different AV equipments.**

### J. 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 through the most common problems and their solutions.

Problem	Possible solutions
All lights is not on	<ul style="list-style-type: none"> <li>• Make sure power plug is firmly connected.</li> <li>• Be sure the AV power is on.</li> </ul>
No picture or sound	<ul style="list-style-type: none"> <li>• Check all cable connections.</li> <li>• Make sure power adaptors are supplied.</li> <li>• Check power switches on the remote TV and Video equipment. (VCR, laser disc player, satellite receiver, etc.)</li> <li>• Check the power on/off switches on the transmitter and receiver.</li> </ul>
Interference: Noisy picture or audio	<ul style="list-style-type: none"> <li>• Check selected program is from its input port.</li> <li>• Adjust receiver and transmitter orientation.</li> <li>• Select a different channel by CH slide switch on both transmitter and receiver so that the channels match.</li> <li>• If using a microwave oven, turn it off.</li> <li>• Remove microwave oven from path between transmitter and receiver.</li> </ul>
Poor quality of all TV channels	<ul style="list-style-type: none"> <li>• Obstructions of the signal can sometimes affect the transmission quality. Move the transmitter or receiver a few centimeters to solve the problem.</li> <li>• Change the channel SW (1 - 4) on both the transmitter and the receiver. The channel SW on the transmitter must match the channel SW on the receiver.</li> </ul>

Problem	Possible solutions
Remote control extender does not work	<ul style="list-style-type: none"> <li>• Check the path between the transmitter and the audio/video equipment and clear any obstructions.</li> <li>• Check to see if the IR window on the front of the transmitter is blocked.</li> <li>• Make sure IR extender is properly location in the AV equipment you wish to control. (See section on "Using the Remote Control Feature" in this manual)</li> <li>• If you use a wireless headphone. Wireless speakers or other equipment using 433MHZ transmission, this could affect the range of the infrared extender function dramatically. Switch off these equipments to improve the range.</li> </ul>
AV OUT port no picture, no sound, or both no	<ul style="list-style-type: none"> <li>• Check AV Connector, plug is firmly connected.</li> <li>• Be sure your TV set is working AV status.</li> </ul> <p><b>Note1:</b> if your TV set has many AV port input, make it to work homologous status.</p> <p><b>Note2:</b> AV/RF lamp of Multisource is red when you operate AV port to change program.</p>

**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.**

## Technical Specifications

### Transmitter:

Operating Frequency Band	2.400GHz~2.4835GHz (4 channels)
Output Level (max)	10dBm (CE) 0dBm (FCC)
Modulation	FM (video and audio)
Channel	PLL frequency synthesizer
Video Input Level	1V p-p @ 75 ohm
Audio Input Level	1V p-p @ 600 ohm (Stereo)
Video Output Level	1V p-p @ 75 ohm
Audio Output Level	1V p-p @ 600 ohm (Stereo)
Input Port	4 X SCART or 4 X 3RCA (optional)
Output Port	2X 3RCA or 1 SCART (optional)
IR-remote IR output	940nm with ON/OFF keying
Infrared emission carrier	38KHz
Power consumption	9 VDC, 400mA
IR Remote control range	>8m
Remote control Power	2 Batteries: LR6, 1.5V
Dimension	223mm×105.9mm×63mm
Weight	390g

### Receiver:

Operating Frequency Band	2.400GHz~2.4835GHz (4 channels)
Noise Figure	3.5dB
Channel	PLL frequency synthesizer
Video Output Level	1V p-p @ 75 ohm
Audio Output Level	1V p-p @ 600 ohm (Stereo)
AV Output Port	1×SCART or 1×3RCA (option)
Transmit Frequency	433.92 MHz or 418 MHz
Infrared freq. Input	35KHz~41KHz
IR remote control range	>8m
RF Output Channel	CH36 (PAL/G or PAL/I) or CH3 / CH4 (NTSC/M) (option)
RF Output port	IEC 169-2 (f) / IEC 169-2 (m) (option)
RF impedance	75 ohms
Power consumption	9 VDC, 400mA
Dimension	162mm×94mm×48mm
Weight	230g

### System:

2.4GHz Operational range	up to 100 meter	(line of sight)
UHF Remote control range	up to 50 meter	(line of sight)

- All specification subject to change without notice