

## Scanning system

500(H) x 582(V), 320,000 pixels (CCIR)  
2:1 Interlace

## Sync. system

15.734 KHz(H) 59.94Hz(V), EIA  
15.572 KHz(H) 49.73Hz(V), CCIR

## Resolution

Internal Synchronization  
350 TV lines

## Mtn. Illumination

4 Lux (Digital Color), 1 Lux(B/W)

## Video Output

1.0Vp-p/75 Ohm

## Gamma characteristics

$\gamma=0.45$

Electrical Auto Iris  
Shutter sensitivity: 1/60-1/100,000 (EIA)  
1/50-1/100,000 (CCIR)

## Microphone

Electret Condenser

## Transmitting Frequency

2.4 GHz-2.4835 GHz(4Ch)  
FM

## Modulation

90dBu/V, 3m

## RF out level

1.0Vp-p/75 Ohm

## Video Input level

2.0Vp-p/600 Ohm

## Audio input level

Directional high gain antenna  
-14° to +122° F

## Antenna

DC12V 500mA AC Adaptor  
6.9(W) x 4.8(H) x 14.6cm(D)  
Approx 250g

## Power source

DC12V 500mA AC Adaptor

## Dimensions

2.4GHz-2.4835 GHz(4Ch)  
1.0Vp-p(Video), 1.35Vp-p(Audio)  
-25dB to -80dBm

## Weight

3.5dB

## Antenna

Directional high gain antenna  
-14° to +122° F

## Oper. temperature

DC12V 500mA AC Adaptor  
11(W) x 5.3(H) x 18.2cm(D)

## Power source

Approx 400g

## Dimensions

Approx 400g

## Weight

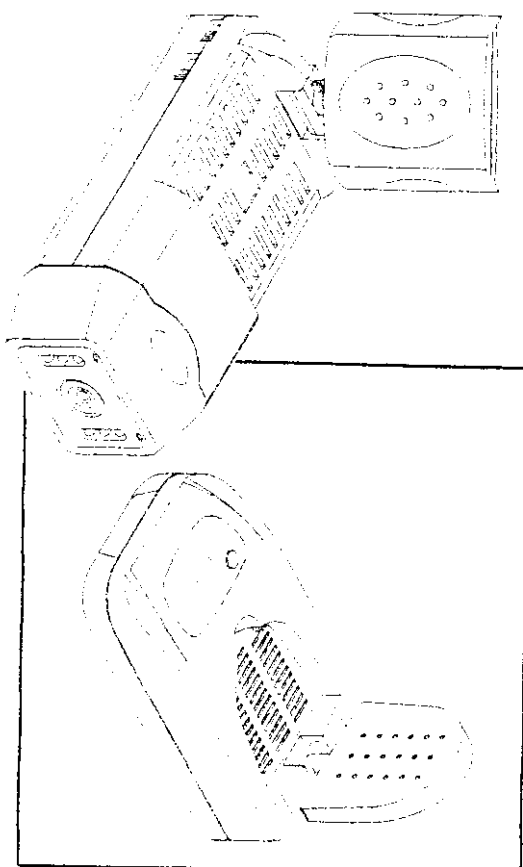
Approx 400g

## Basic system includes

- 1- Wireless Camera
- 1- Wireless A/V Receiver
- 2- AC Adaptors
- 2- RCA A/V Cables or Scart to RCA Cables
- 1- RF Cable
- 1- Antenna Switching Box (NTSC only)(Option)
- 1- Owner's Instructions
- 1- Camera Mount

# AVSHARE®

## CCD SECURITY SYSTEM



• Before operating the unit, please read this manual thoroughly.

## OPERATING INSTRUCTIONS

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

|                                                                                                                                                                  |                                                        |                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------|
|                                                                                | <b>CAUTION</b><br>RISK OF ELECTRIC SHOCK. DO NOT OPEN. |  |
| CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-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 INSTRUCTIONS

This wireless A/V equipment is provided with a polarized alternating-current line plug (a plug having one flat blade longer than the other). This plug will fit only in a polarized outlet. If the plug does not fit the outlet, do not use the equipment. Use of an unpolarized plug or an adapter can result in a risk of fire or electric shock.

## SAFETY INSTRUCTIONS

### IMPORTANT SAFEGUARDS

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

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

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

**WATER AND MOISTURE** - Do not use this video product near water - for example, a bath tub, wash bowl, kitchen sink, laundry tub or swimming pool, or in a wet basement.

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

**POLARIZATION** - This video monitor equipment is provided with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

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

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

## MULTIPLE CHANNEL OPERATION

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

- When the power supply cord or plug is damaged.
- If liquid has been spilled or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions.

Adjust only those controls that are covered by the operating instructions.

- If the product has been dropped or the cabinet has been damaged.
- When the product exhibits a distinct change in performance.

**9. 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.

**10. 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.

**11. 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.

CONTROLS AND FUNCTIONS

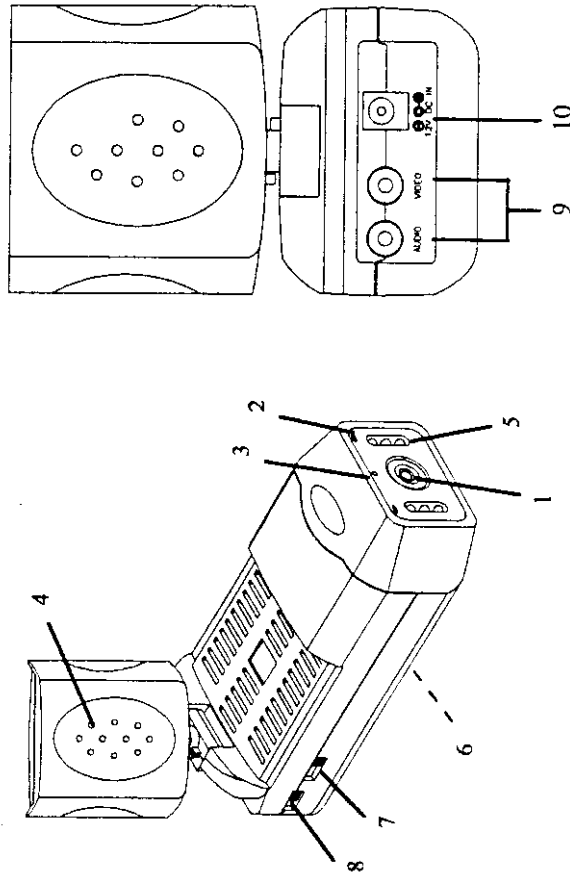
WIRELESS CCD CAMERA

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FRONT VIEW

REAR VIEW

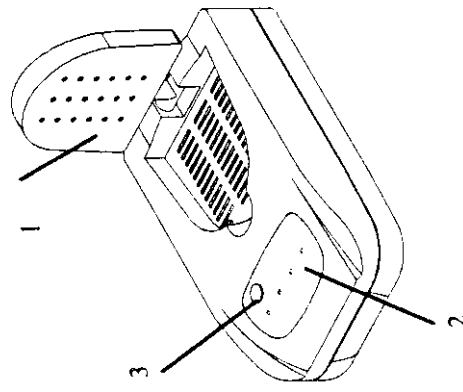


- 1. LENS**  
1/3" B/W CCD or Digital Color Image sensor with built-in 78° fixed wide-angle lens.
- 2. MICROPHONE**  
Built-in condenser microphone (one-way audio).
- 3. LED-POWER INDICATOR**  
Indicates that the camera is turned on.
- 4. 2.4 GHz A/V ANTENNA**  
High gain directional patch antenna sends A/V signal to the receiver.
- 5. INFRARED LED ILLUMINATORS**
- 6. STAND MOUNTING SOCKET**  
Reinforcement lock for camera stand.
- 7. CHANNEL SELECTOR SWITCH**  
Switch for the channel 1-4 selection.
- 8. POWER SWITCH**  
Controls power on/off. Be sure to set the switch to off position before plugging the AC adaptor into the unit and AC outlet.
- 9. AUDIO/VIDEO OUT JACKS**  
RCA Audio/Video-Out jacks for wire mode operation.
- 10. DC IN JACK**

## CONTROLS AND FUNCTIONS

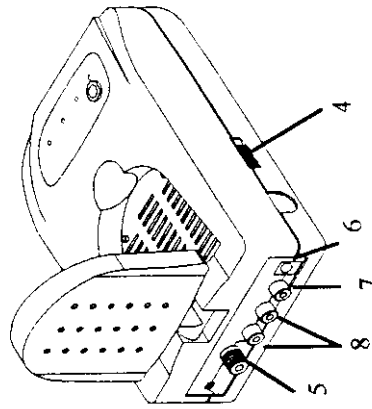
### WIRELESS RECEIVER

#### FRONT VIEW



- 1. 2.4GHz A/V ANTENNA**  
High gain directional patch antenna receives A/V signal from the camera.
- 2. LED CHANNEL INDICATORS**  
Indicate selected channel
- 3. CHANNEL SELECTOR BUTTON**  
Push button for channel 1-4 selection.

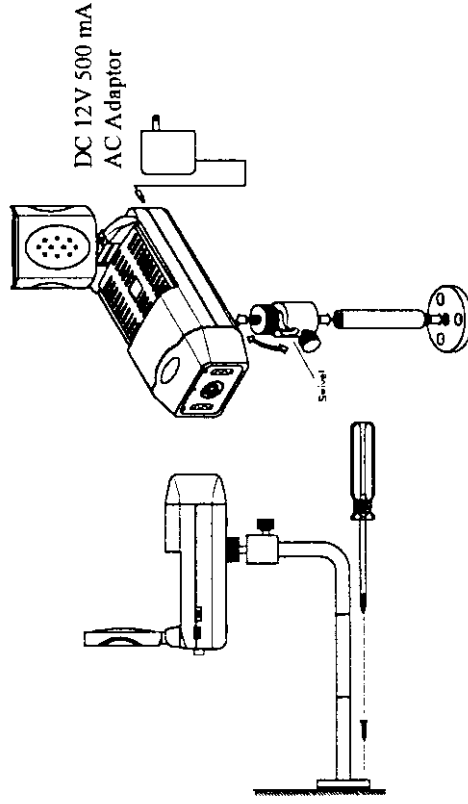
#### REAR VIEW



- 5. RF OUT JACK**  
TV connection jack.
- 6. DC IN JACK**  
Connect the supplied 12V 500mA AC adaptor.
- 7. VIDEO OUTPUT JACK (Yellow)**  
RCA jack for Video output connection.

## INSTALLATION

### WIRELESS CAMERA



1. Attach the stand base to the wall or ceiling where you want to install the camera. Locate a wall stud or ceiling joist and secure bracket using the three supplied screws.
2. Attach the camera to the stand and firmly tighten the swivel.
3. Attach the camera with the stand to the stand base and firmly tighten the joint knob on the stand base.
4. Connect the supplied 12V 500mA AC adaptor to the DC IN jack at the rear of the camera and plug it into 230V (or 120V) AC outlet.

### WIRELESS RECEIVER



## INSTALLATION

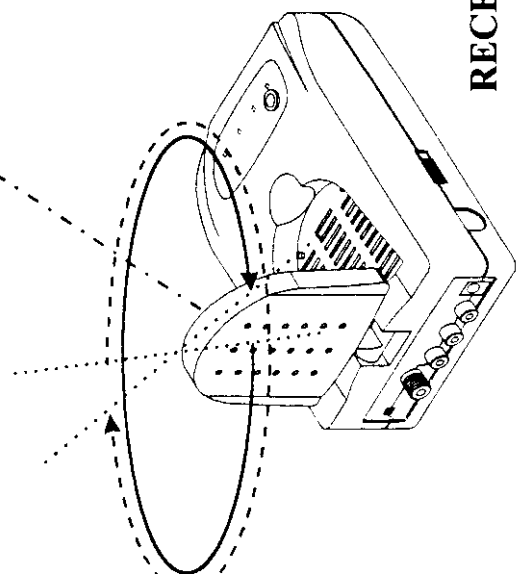
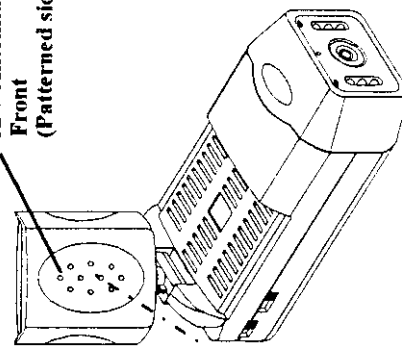
### ADJUSTING THE A/V ANTENNA

**NOTE:** The front (patterned side) of the A/V antennas on both camera and receiver unit must face each other for optimum performance as both are directional high gain antennas.

A/V Antenna  
Front  
(Patterned side)

Maximum antenna rotation 270° in both clockwise and anti clockwise

**Caution :** Do not rotate the antenna 360° or it will cause antenna mechanism damaged

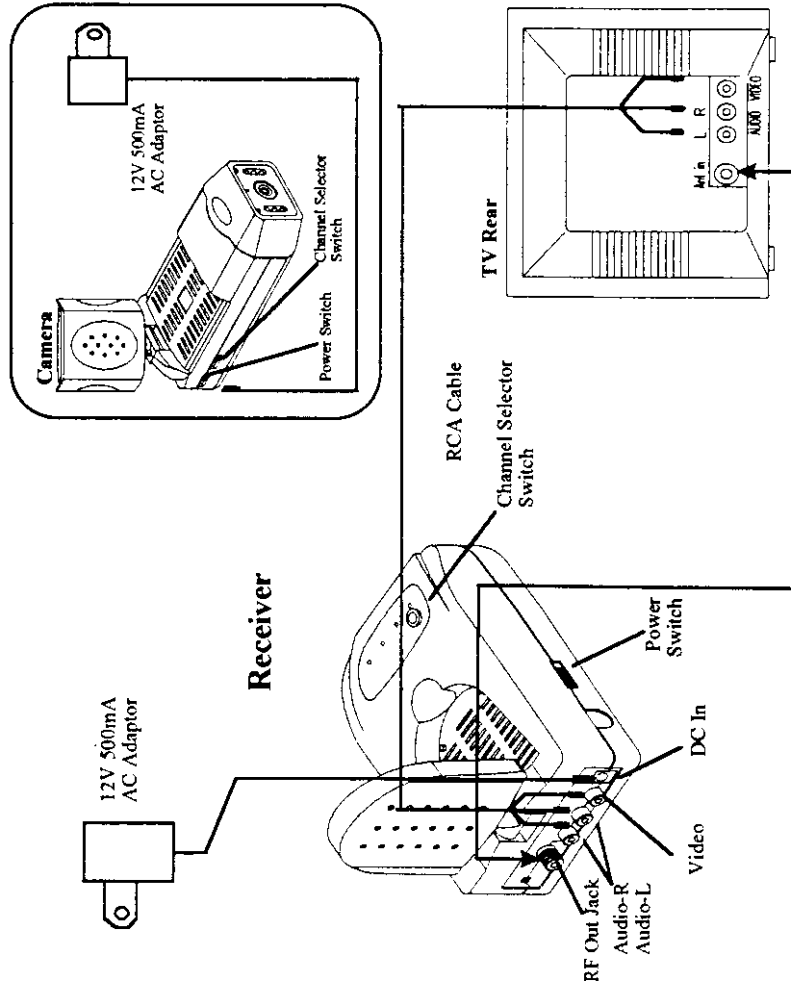


## RECEIVER

## SYSTEM OPERATION

### OPERATION WITH TV

You can connect both units with either RCA cable or RF cables.

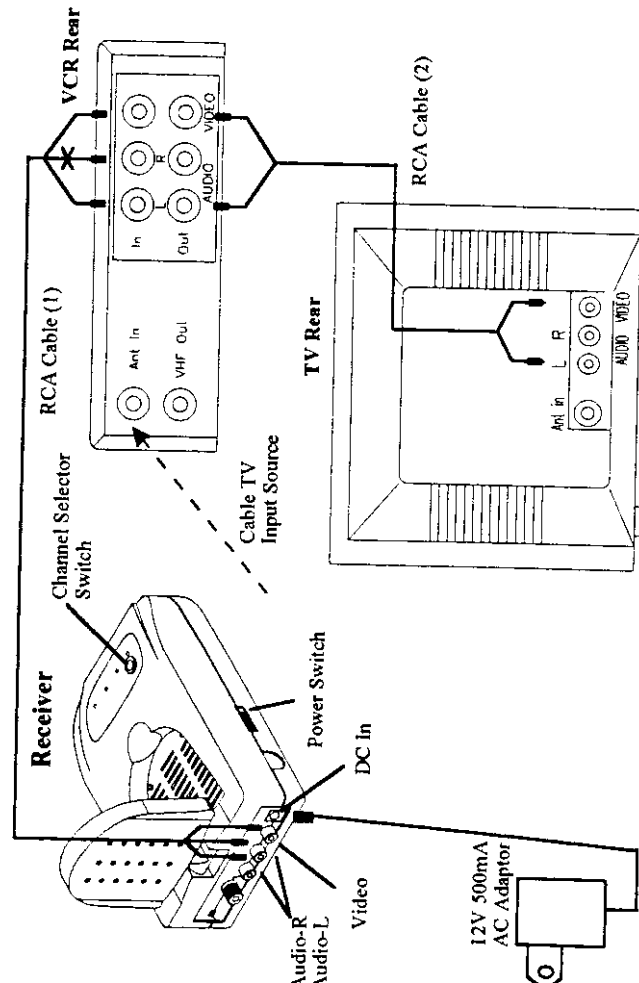


**NOTE:** Be sure to set the Power Switch on the Receiver and Camera to the OFF position before proceed following steps.

1. Connect one end of the RCA cables to the Audio (L)/Video jacks at the rear of the Receiver. Plug the other end of RCA cables into the Audio (L)/Video in jacks on your TV. **Be sure to match the plug color on the cables in both connection.**

## SYSTEM OPERATION

### OPERATION WITH TV & VCR



**NOTE:** Be sure to set the Power Switch on the Receiver and Camera to the OFF position before proceed following steps.

Connect one end of the RCA cables to the Audio (L)/Video jacks at the rear of the receiver. Plug the other end of RCA cables into the Audio(L)/Video in jacks on your VCR. **Be sure to match the plug color on the cables in both connection.**

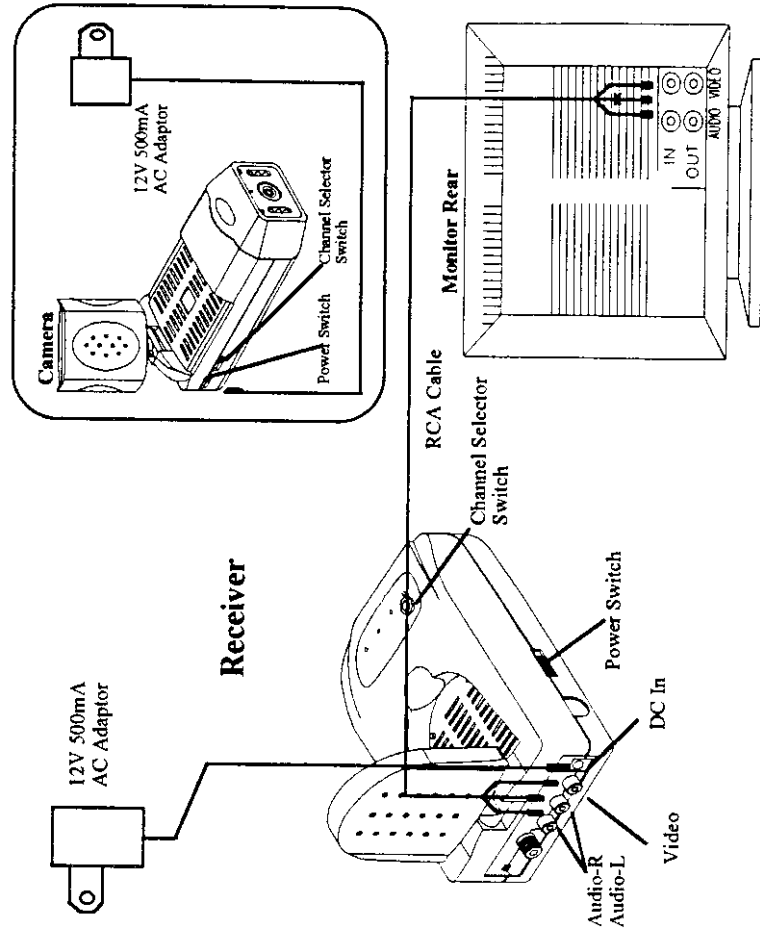
Connect one end of another RCA cables to the Audio/Video jacks on your TV. Plug the other end of RCA cables into the Audio/Video Out jacks on your VCR.

Turn on the Camera and Receiver. Set your TV to Video mode to view the receiving signal from the Camera.

Search the channel 1-4 by using Channel Selector Switch on the Receiver and camera. Select best one for optimum reception in your area.

## SYSTEM OPERATION

### OPERATION WITH MONITOR



**NOTE:** Be sure to set the Power Switch on the Receiver and Camera to the OFF position before proceed following steps.

1. Connect one end of the RCA cables to the Audio (L)/Video jacks at the rear of the Receiver. Plug the other end of RCA cables into the Audio/Video in jacks on your Monitor. **Be sure to match the plug color on the cables in both connection.**

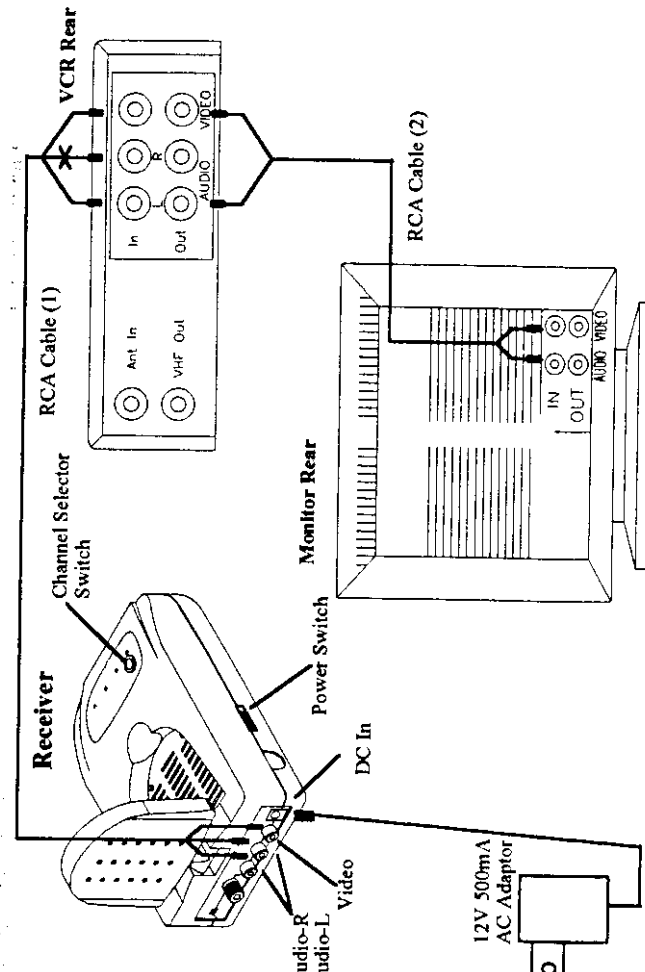
2. Turn on the Camera and Receiver.

3. Turn on your Monitor.

4. Search the channel 1-4 by using Channel Selector Switch on the Receiver and

## SYSTEM OPERATION

### OPERATION WITH MONITOR & VCR



**NOTE:** Be sure to set the Power Switch on the Receiver and Camera to the OFF position before proceed following steps.

Connect one end of the RCA cables to the Audio (L/R)/Video jacks at the rear of the Receiver. Plug the other end of RCA cables into the Audio/Video in jacks on your VCR. **Be sure to match the plug color on the cables in both connection.**

Connect one end of another RCA cables to the Audio/Video in jacks on your Monitor. Plug the other end of RCA cables into the Audio(L)/Video Out jacks on your VCR. Turn on the Camera and Receiver.

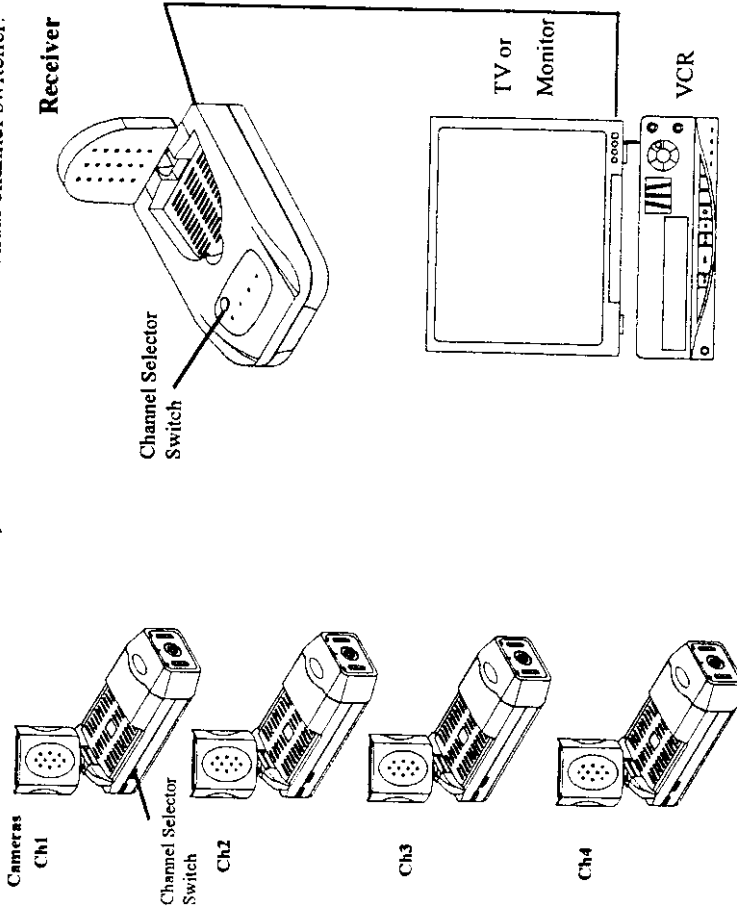
Turn on your Monitor and VCR.

Search the channel 1-4 by using Channel Selector Switch on the Receiver and camera and select best one for optimum reception in your area.

## MULTIPLE CHANNEL OPERATION

### ONE RECEIVER BY MULTIPLE CAMERA OPERATION

You can receive A/V signals from several Wireless Cameras on your TV or monitor in remote location using multiple Wireless Cameras with one Wireless Receiver as this system is 4 wireless channel capability and has built-in auto/manual channel switcher.



**NOTE:** Be sure to set the Power Switches on the Camera and the Receiver to the OFF position before proceed following steps.

1. Place all cameras at your desired location.

**NOTE:** Second to forth Cameras are not included.

2. Connect the Receiver unit to your TV with or without VCR using RCA cables.

## MULTIPLE CHANNEL OPERATION

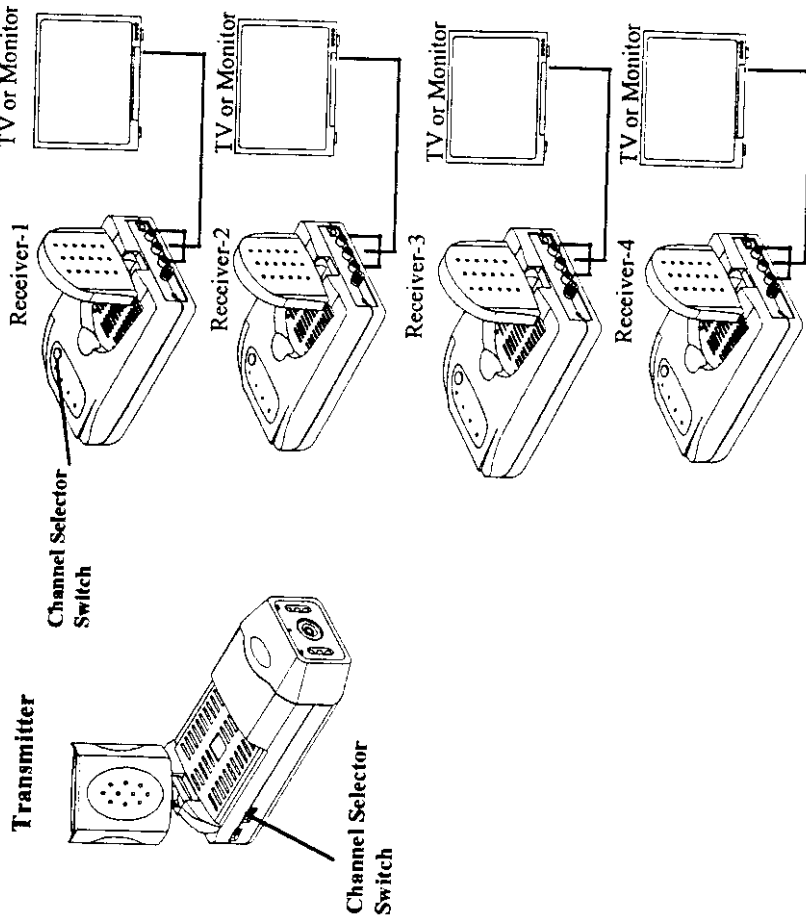
### ONE RECEIVER BY MULTIPLE CAMERA OPERATION (Cont'd)

4. Turn on your remote TV or Monitor that is connected to the Receiver.  
(If you are using TV, Set your TV to Video mode.)
5. Turn on the Receiver and select the channel 1-4 one by one manually by pressing Channel Selector switch on the Receiver. Your TV or Monitor will display the signal from an A/V source as selected.
6. Adjust the antenna direction as necessary.

## MULTIPLE CHANNEL OPERATION

### ONE CAMERA BY MULTIPLE RECEIVER OPERATION

You can receive A/V signal from the Wireless Camera on several TV or monitors in remote location at the same time using one Wireless Camera with multiple Wireless Receiver as many as you want.



Be sure to set the Power Switches on the Camera and the Receiver to the OFF position before proceed following steps.

1. Connect all Receiver units to your TV or Monitor with or without VCR using RCA cables (see instructions on page 9-12).

## MULTIPLE CHANNEL OPERATION

### ONE CAMERA BY MULTIPLE RECEIVER OPERATION (Cont'd)

3. Turn on the Camera and all Receiver units. Search the channel 1-4 by using channel Selector Switch on the Camera and Receivers and select best one for optimum reception in your area.

**NOTE** All Receiver and Camera units must be set to same channel.

4. Adjust the antenna direction as necessary.

## TROUBLE SHOOTING

If the system does not function properly, check the following points before contact the service center.

| Problems                                                 | Causes and remedies                                                                |                                                                                                                                 |
|----------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
|                                                          | Camera                                                                             | Receiver                                                                                                                        |
| No power<br>(no picture/sound)                           | - AC adaptor not plugged in<br>- Power switch not turned on                        | - AC adaptor not plugged in<br>- Power switch not turned on<br>- TV or Monitor not turned on<br>- Improper A/V cable connection |
| Poor reception                                           | - AC adaptor not plugged in<br>- Power switch not turned on                        | - Adjust antenna direction<br>- Turn on the AFT switch<br>- Improper channel 1-4 selection                                      |
| Picture flickering<br>Picture too bright,<br>or too dark | - Strong spot light in the field of view<br>- Lighting source in the field of view | - Adjust brightness control on TV/monitor                                                                                       |
| Picture rolls and jumps<br>or scrambled picture          | - Adjust antenna direction                                                         | - Adjust antenna direction                                                                                                      |