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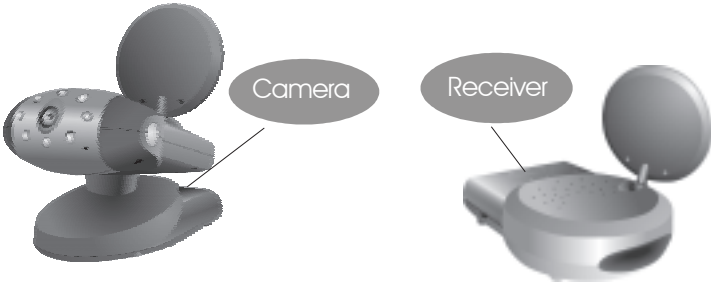
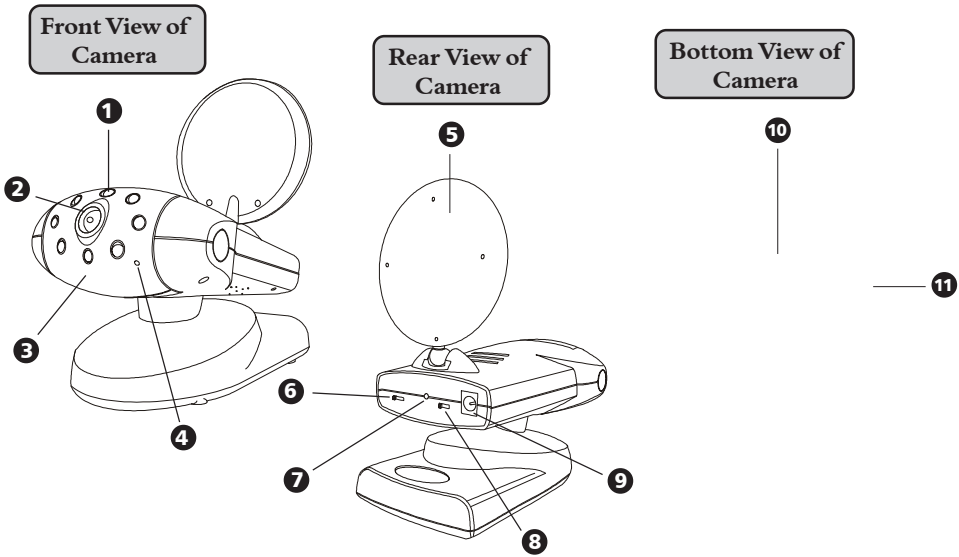
What You Get



- One Camera
- One Receiver
- One Audio/Video Cable (RCA to RCA for NTSC; RCA to Scart for PAL)
- Two Power Adapters
- One Quick Installation Guide
- This User's Manual

Note: Two AC adapters with different length cables are included with this product. Use either depending on distance from the wall outlet.

Product Layout



Product Layout

❶ **Infrared LEDs**
Eight LEDs to provide infrared light for night vision.

❷ **Lens**
Focuses image automatically without any adjustment.

❸ **Lens Body**
Rotates up to 180 degrees.

❹ **Microphone**

❺ **2.4 GHz Audio/Video Antenna (Front)**
Transmits audio/video signals. *Caution: Antenna does not rotate freely through 360 degrees. (See "Orienting Units for Optimal Performance", on page 13)*

❻ **Channel Selection Switch**
Select the channel by sliding the slide switch to the channel number you want.
Must select the same channel on both the camera and receiver.

❼ **Power Indicator LED**

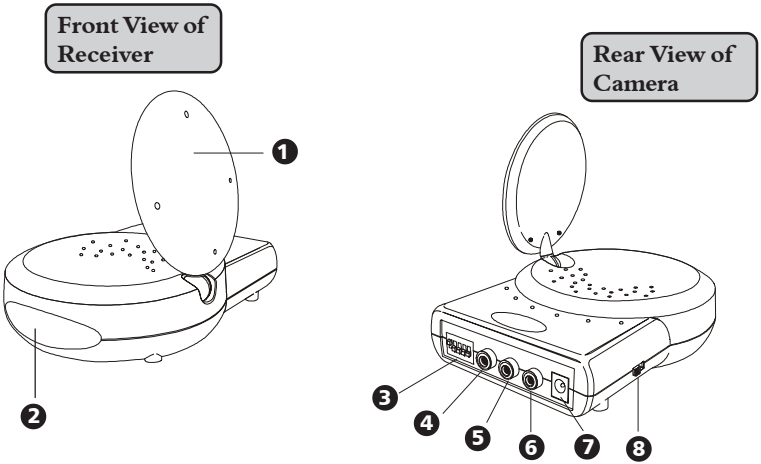
❽ **OFF/ON/NIGHT**
POWER ON/POWER OFF and NIGHT VISION ON switch.

❾ **9V Power Adapter Plug**

❿ **Mounting Hole**

⓫ **Battery Compartment**

Product Layout



Product Layout

❶ **Power Indicator LED**
The LED should be lit when the ON/OFF switch is in the ON position..

❷ **2.4GHz Audio/Video Antenna (Front)**
Transmits and receives Audio/Video signals. *Caution: Antenna does not rotate freely 360 degrees. (See "Orienting Units for Optimal Performance", on page 13)*

❸ **Channel Selection Dipswitches**
Select the channel by setting the channel dipswitch to the ON position. The number 5 dipswitch sets the timer for the auto-sequence function (see "Auto-Sequence Function for Multiple Location Monitoring", on page 14).
Must select the same channel both on camera and receiver.

❹ **Left Audio Jack (White)**

❺ **Right Audio Jack (Red)**

❻ **Video Jack (Yellow)**

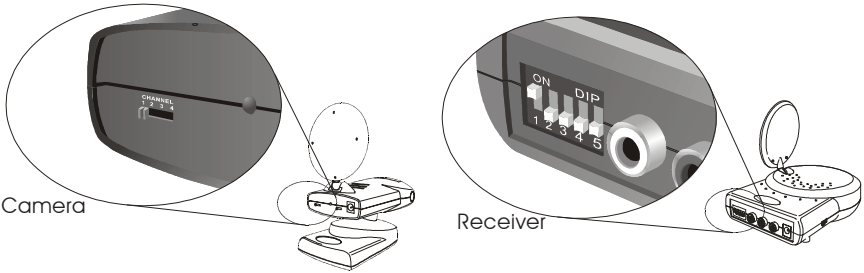
❼ **9V Power Adapter Plug**

❽ **ON/OFF Switch**

Setting Up

Before you make the connection:

- Always make sure the unit ON/OFF switch is in the OFF position.
- Set the channel switches on the back of the camera and receiver to the same channel.



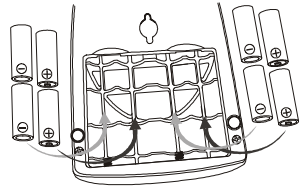
- If you wish to wall mount the camera, it is recommended that the receiver reception be tested before fixing in place. Have one person hold the camera against the wall in the selected mounting area while another checks reception on the TV. If interference or other problems are present, refer to the Troubleshooting section on page 16 of this manual. You may need to select a different location in the room for mounting the camera.

1 Power Supply

The camera uses either batteries (AA-size) or household AC current.

To Load Batteries

1. Open the battery compartment cover in the direction of the arrow.
2. Insert batteries so their plus (+) and minus (-) ends are facing as shown in the illustration.
3. Close the battery compartment cover. Make sure the battery compartment cover is locked securely.



Never mix old batteries with new ones.
Remove batteries from the camera if you do not plan to use it for a period of time.

Using AC Power

Plug one end of the provided power adapter into a wall outlet and the other end into the rear of the camera. ***Note:*** Use the adapter with the longer cable to connect the camera if the camera is mounted on a ceiling or wall at a long distance from the wall outlet.

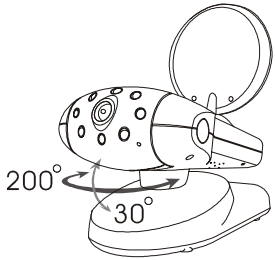
Slide the POWER Switch to the ON position. The LED on the back of the camera should light.

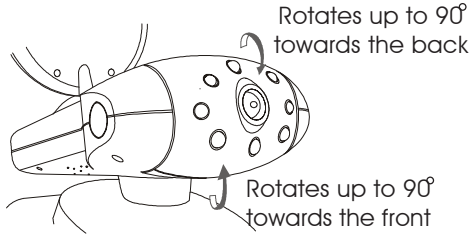
Setting Up-Camera

2 Changing the Lens Orientation

Place the camera in a convenient location, point the lens towards the observation area and adjust the angle by rotating the lens body. The camera's auto focus feature automatically focuses the image.

The camera's head rotates horizontally up to 200 degrees and vertically up to 30 degrees. The lens is built into a lens body that is designed to rotate vertically up to 180 degrees, allowing the camera to cover the widest angles.





Do not apply excessive force when rotating.
Doing so can cause serious damage to the camera.

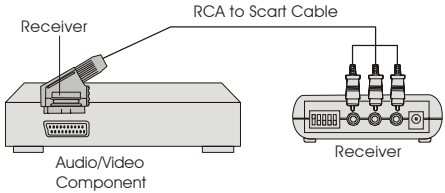
3 Fine Tuning

Adjust the antenna so that the front (curved side) faces the room where the receiver is to be set up. See "Orienting Units for Optimal Performance", on page 13.

1 Connecting the Receiver to a TV

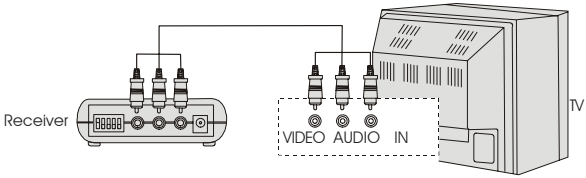
1. Connect one set of audio/video cables to the audio/video jacks of the receiver, matching the plug colors with the jacks on the receiver.
2. Connect the other end of the cable to the audio/video jacks on the TV labeled LINE IN, matching the plug colors with the jacks on the TV. Some connection scenarios are shown on the next page.

Note: For PAL systems, the connector on the audio/video component is a Scart socket. Connect the Scart connector labeled RECEIVER to the Scart socket labeled IN on the audio/video component; connect the RCA connector to the receiver.



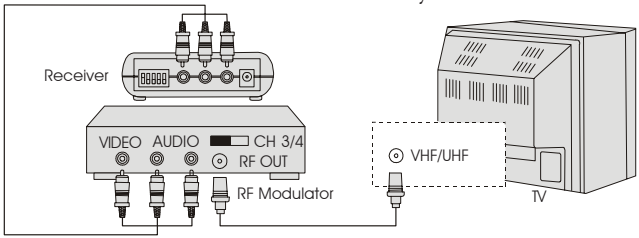
Setting Up-Receiver

Connecting to a TV With an Audio/Video Component



Connecting to a TV Without Audio/Video IN Jacks

If your TV has UHF/VHF input only, and there is no audio/video equipment near your TV, you will need to get an RF-Modulator (available at your local electronic store) to convert the RCA jacks to coax. Then select either channel 3 or 4 on your TV to view the video.

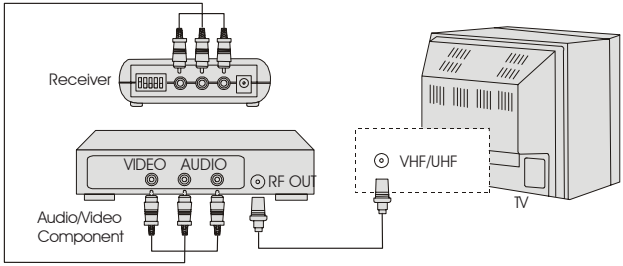


Note:

If the TV has only one input for audio (mono sound only), connect the white plug to that single audio input and to the receiver's AUDIO LEFT jack.

If the jacks on the TV are colored differently, connect the yellow plug to the jack labeled Video, the red plug to the jack labeled AUDIO RIGHT, and the white plug to the jack labeled AUDIO LEFT.

Connecting to a TV With an Audio/Video Component



2 Power Supply

Plug one end of the provided power adapter into a wall outlet and the other end into the rear of the receiver.

Turn the ON/OFF switch to the ON position. The LED on the front of the unit should light.

3 Fine Tuning

Place the receiver in a convenient location, then adjust its antenna so that the front (curved face) faces the room where the camera is set up. See "Orienting Units for Optimal Performance", on page 13.

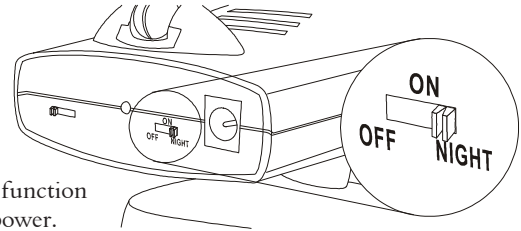
Setting Up-Other Application

Receiving on a Computer

- Connect the yellow video plug of the audio/video cable to the video jack on the TV tuner device or video capture card, and to the video jack of the receiver.
- Connect the mini stereo plug of the adapter (available in any electronic store) into the AUDIO IN jack on the back of computer, and the red and white audio/video plugs into the AUDIO LEFT and AUDIO RIGHT jacks on the receiver.

Night Vision

The camera has eight high-intensity LEDs for picking up clear images in unlit locations. To turn on the night vision function, slide the switch as shown in the illustration on the right.



Note: Turning the night vision function off when not required will save power.

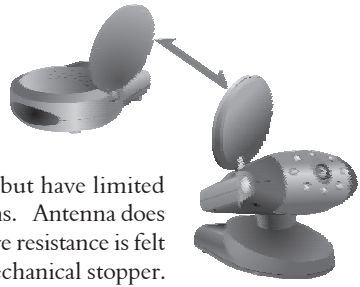
Orienting Units for Optimal Performance

Placing:

Place the camera and receiver on a flat, stable surface to prevent damage from falling.
For optimal performance, try to place the units as high as possible to avoid any possible interference from people walking between the camera and the receiver.
Microwave ovens can cause interference. Be sure you do not position the camera and receiver with a microwave in the path between them.

Adjusting the Audio/Video Antennas

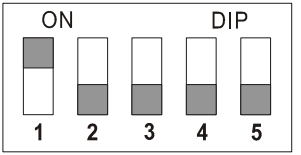
For optimal reception, the antennas on both camera and receiver should be oriented. In most situations the curved face of the audio/video antennas on both the transmitter and receiver should be facing each other. If the camera and receiver are less than 10 feet (3 meters) apart, keep the audio/video antennas flat in their casings.



The audio/video antennas have been designed to pivot but have limited rotation in either clockwise or counterclockwise directions. Antenna does not rotate freely 360 degrees. Rotating past the point where resistance is felt will result in permanent damage to both antenna and mechanical stopper.

Auto-Sequence Function for Multiple Location Monitoring

The receiver's built in auto-sequence function is ideal for security use. The receiver can be used with up to four wireless cameras on four different channels and display them in sequence on a single TV/ monitor. The receiver's various operating modes are set via dipswitches as shown in the following diagram:



Factory-Preset Mode

Dipswitches 1 ~ 4: Set up the automatic channel sequence function

Slide the channel dipswitch that you wish to view to the ON position.

Diswitch 5: Sets the sequence change interval time

ON: Changes channel every eight seconds.

OFF: Changes channel every four seconds.

Auto-Sequence Function for Multiple Location Monitoring

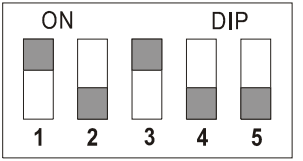
Note 1: The receiver will auto detect the receiving channels, and display them in sequence. When only one channel dip switch is in the ON position, the receiver will receive the channel continuously, without regard to the position of the 5th dip switch. If more than one dip switch remains on, the auto-sequence function will continue on those channels.

Note 2: When none of the dip switches are in the ON position, the receiver will automatically set the receiving channel to Channel 1.

Example:

Using the auto-sequence function:

If you have two wireless camera and their channels are set on CHANNEL 1 and CHANNEL 3, and you wish to monitor the two channels in sequence, you must slide up the first and third dip switches to the ON position (see the diagram on the right). If you wish these two channels to be alternated at eight-second intervals, slide the DIP 5 switch to the ON position. Leave it in the lower position for four-second channel change intervals.



Stopping the auto-sequence function:

To stop the auto-sequence function and lock on one channel, leave the dip switch for the channel you want to receive in the ON position. Slide the others to the lower position.

Troubleshooting

If you are not getting any signal at all

- Check that the receiver is properly connected to the TV which you want to receive the signal
- Check the power ON/OFF switches on the camera and receiver
- Check power switches on the TV
- Make sure power plugs are pushed all the way in.
- Check all cable connections.
- Check the CHANNEL switch on both camera and receiver are set to the same number
- If you connect the receiver to a TV through an RF modulator, check that the TV is tuned to the same channel as the TV Channel switch on the RF modulator (3 or 4)

If the signal is poor, or there is interference

- Adjust the antennas orientation (see "Orienting Units for Optimal Performance", on page 15)
- Change the channel on both camera and receiver and make them the same.
- If there is a microwave oven in use in the path between the camera and receiver, remove the microwave oven or turn it off
- Make sure the camera and receiver are within range (up to 300 feet)
- Check the channel dipswitch positions on the receiver

Care and Maintenance

- For best performance, don't touch the antennas unnecessarily
- Keep all its parts and accessories out of young children's reach
- Camera performances can be adversely affected by fingerprints or dirt on the lens surface. Avoid touching the lens surface with your fingers.
- Should the lens become dirty, use a blower to blow off dirt and dust, or a soft, dry cloth to wipe off the lens.
- Keep dry. Precipitation, humidity, and liquids, contain minerals that will corrode electronic circuits
- Do not use or store in dusty, dirty areas. Moving parts may be damaged
- Do not store in hot areas. High temperatures can shorten the life of electronic devices and warp or melt certain plastics
- Do not store in very cold areas. When the Wireless Camera System warms up (to its normal temperature), moisture can form inside the case, which may damage electronic circuit boards
- Do not attempt to open the case. Non-expert handling of the device may damage it
- Do not drop , knock, or shake it. Rough handling can break internal circuit boards
- Do not use harsh chemicals, cleaning solvents, or strong detergents when cleaning. Wipe with a soft cloth slightly dampened in a mild soap-and-water solution
- If the Wireless Camera System is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service
- Operate this product using only the power supply included with it or provided as an accessory
- Do not overload electrical outlets or extension cords as this can result in fire or electric shock

Specifications

	Receiver	Camera
Frequency	2.4~2.4835GHz	
Range	300 feet (100 meters) clear line of sight	
Antennas	Directional circular-polarized antenna	
Channel	4 selectable channels	
AV mod/demod. method	FM	
Image Sensor	--	1/3" CMOS image sensor
Lens	--	f3.6mm, F2.0
Audio	Stereo audio input and output	--
Video	Composite video input and output	--
Dimensions	14 x 11 x 2.8 cm (5.5 x 4.3 x 1.1 in)	10 x 9 x 15 (3.9 x 3.5x5.9 in)
Weight	200g (7.1 ounces)	300 g (10.6 ounces) without batteries
Operating remperature	10°C~50°C (14°F~122°F)	

Specifications are subject to change without notice.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. 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

FCC Label Compliance Statement:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.