

Introduction

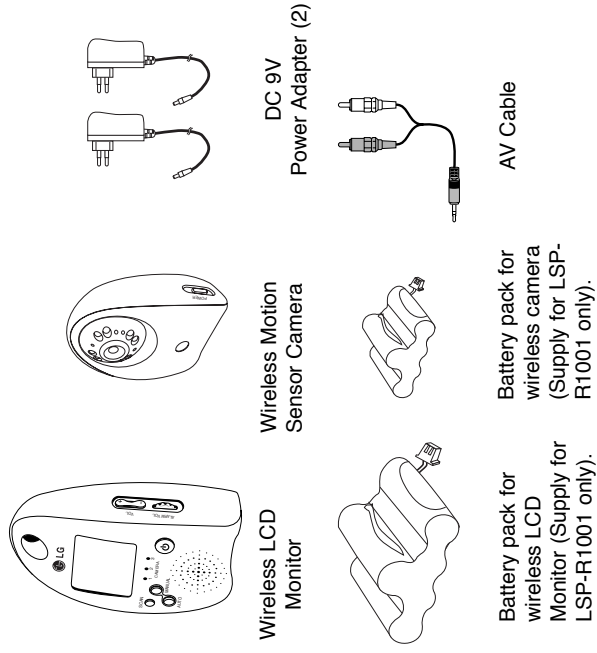
The LSP-R1000/LSP-R1100 is a combined wireless color camera & video monitor (receiver). A high-resolution color video camera, it includes a built-in motion detector and an audio microphone. An ideal combination for watching the baby, monitoring the porch, pets, yard or the pool. It is also suited to many small business applications.

Features

- 2.4 GHz wireless technology
- 2.5-inch (LSP-R1000) / 1.8-inch (LSP-R1100) LCD display for good picture display.
- Plug and play installation
- Supports up to 3 cameras.
- LCD display can work with 3 modes : Power save, Auto and Manual
- Adjustable cycle time between cameras in Auto mode.
- The Brightness, Colour, Contrast, Alarm volume and Audio volume can be adjusted.
- PIR sensor function.
(LSP-R1000 : Motion sensing, LSP-R1100 : Sound trigger).

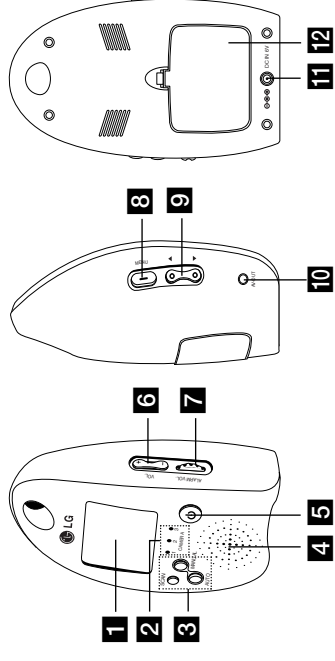
Package Contents

Your package contains the following:



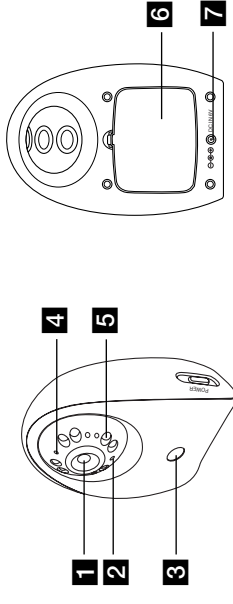
Part Name and Functions

LCD Monitor Overview



- LCD monitor screen.**
Displays the live image of the selected wireless camera.
- Channel indicator.**
Lights green or red when the channel is selected.
Blinks when the motion is detected.
- Mode select buttons.**
 - P/S : Select when you want to place the system in scan mode.
 - AUTO : Select when you want to place the system in auto mode.
 - MANUAL : Select when you want to place the system in manual mode.
- Speaker.**
You can listen to the sounds of the wireless camera.
- Power button.**
Turn the LCD monitor On or Off.
- Speaker volume adjustment buttons.**
Adjust the speaker volume level by using the volume buttons.
- Alarm volume adjustment button.**
Adjust the alarm volume of the LCD monitor by tuning the alarm volume tuner.
- MENU button.**
You can select the Brightness, Colour or Contrast setting mode.
- ▲/▼ buttons**
Adjusts the level value of the Brightness, Colour or Contrast.
- Audio/Video output jack.**
You can connect the other display and/or sound device by using supplied AV cable.
- DC 9V Power input jack.**
- Battery case.**
You can use the LCD monitor without the power supply adapter by using the four AA type batteries or battery pack (optional).

Camera Overview



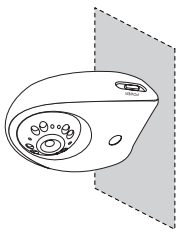
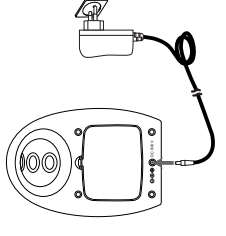
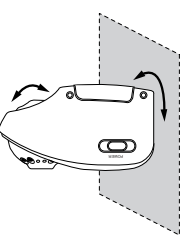
- Camera lens.**
- IR(Infrared Rays) lamp sensor.**
- Motion sensor.**
- Microphone.**
The microphone is included on the camera.
- An infrared lamp.**
- Battery terminal box.**
You can use the camera without the power supply adapter or battery pack (Supplied for LSP-R1001 only) by using the four AA type battery.
- DC 9V Power input jack.**

Before Installation

- The camera must not face to direct sunlight or any bright light; otherwise, this may cause damage to the camera.
- Avoid viewing areas where half of the area is in bright sunlight and the other half is dark. All types of cameras have difficulty seeing wide variations of light.
- This device's communication range is up to 60 feet (18 m) from the Wireless System Controller in a typical home, depending on the number of obstacles. These can include metal framing, thick walls, and other wireless devices operating at 2.4 GHz. It is recommended that different positions be tried.
- The 2.4 GHz video signals pass easily through your home interior walls, but the signal may be reflected by power wires or plumbing inside the wall. The most common source of interference are microwave ovens. And try to avoid mounting the LCD monitor near a microwave oven or other source of RF interference such as wireless phones.

Installing the wireless camera

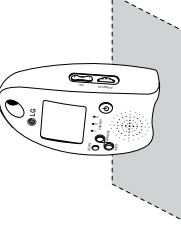
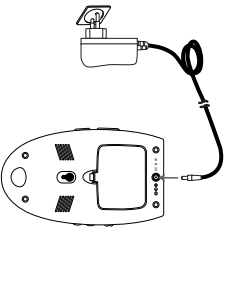
Installing your camera is a simple process. It can be placed on any horizontal surface.

1. Locate the camera on a horizontal surface.

2. Plug the power supply into the camera and then to a wall outlet.

3. Make adjustments of the camera viewing angle by tilting and panning the camera head with your hand.


4. Press the POWER button to turn on the camera.
- Note :** Make sure the power adapter cord is long enough to reach your mounting location.

Installing the LCD Monitor

Installing your LCD Monitor is a simple process. You can either hang the LCD Monitor to the ceiling with a string or just place on a leveled place.

1. Locate the LCD Monitor on a horizontal surface.

2. Plug the power supply into LCD Monitor and then to a wall outlet.

3. Turn on the LCD Monitor.
The system of LCD Monitor will be activated in auto mode automatically.

- Note :** Make sure the power adapter cord is long enough to reach your mounting location.

Operating the Wireless Camera System

Mode operation

- **P/S mode :**
Press the P/S button on the LCD monitor, the system will be changed to P/S mode. The LCD monitor screen blanks into a standby mode while the system continuously scans the active cameras. If a camera detects motion, the LCD monitor displays the camera picture and the beeper will sound. Two minutes after the last detection, the screen returns to standby mode while the LCD monitor resumes scanning. Press the MANUAL or AUTO button to cancel this mode.
- **AUTO mode :**
Press the AUTO button on the LCD monitor, the system will be changed to auto mode. The system automatically rotates through all cameras. When a camera detects motion, the LCD monitor will display the picture from the camera for a few seconds and the beeper will sound. To avoid searching channels that do not have cameras/transmitters assigned, set the dip switches for those corresponding channels to the off position. The dwell time (Time taken to switch between cameras) is preset to 4 seconds and can be adjusted between 2-30 seconds. To adjust the dwell time, press both the AUTO and MANUAL buttons simultaneously. Each flash of the LED increases the dwell time by one second.
- **MANUAL mode :**
Press the MANUAL button on the LCD monitor to select a specific camera. The LCD monitor will switch to a different camera each time the MANUAL button is pressed. When a camera detects motion, the LCD monitor will display the picture of the camera for a few seconds, and the beeper will sound. To avoid searching channels that do not have cameras assigned, set the dip switches for those corresponding channels to the OFF position.

Menu Operation

- **Brightness adjustment**
 1. Press the MENU button repeatedly on the LCD Monitor to select the brightness mode. If the LED in the ENTER button is turned green, stop pressing.
 2. Adjust brightness level using the ▲/▼ buttons.
- **Blue colour adjustment**
 1. Press the MENU button repeatedly on the LCD Monitor to select the Colour mode. If the LED in the ENTER button is turned green and fast flicker, stop pressing.
 2. Adjust blue colour level using the ▲/▼ buttons.
- **Blue colour adjustment**
 1. Press the MENU button repeatedly on the LCD Monitor to select the Colour mode. If the LED in the ENTER button is turned green and slow flicker, stop pressing.
 2. Adjust red colour level using the ▲/▼ buttons.
- **Contrast adjustment**
 1. Press the MENU button repeatedly on the LCD Monitor to select the contrast mode. If the LED in the ENTER button is turned off, stop pressing.
 2. Adjust contrast level using the ▲/▼ buttons.

Note:

If you press the MENU button, the LED is changed as shown below.
Turned green → Turned green and fast flicker → Turned green and slow flicker → Turned off → Tuned green.

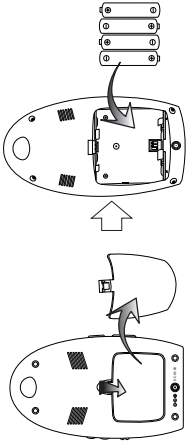
Motion-Sensing Cameras

The cameras are equipped with a motion sensor PIR. When a camera detects motion, a red light flashes on the camera and an alert sounds on the LCD monitor.

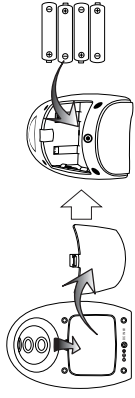
Battery installation guide.

When you use the Wireless camera system without the supplied adapter, you can use the Wireless system by using four batteries.

Detach the battery cover on the camera and LCD monitor, and insert four AA size batteries on the with ⊕ and ⊖ aligned correctly as shown below.



Rear of the LCD monitor.



Rear of the camera.

Note : Do not mix old and new batteries and never mix different types of batteries such as standard, alkaline, etc.

Trouble shooting

Check the following guide for the possible cause of a problem before contacting service.

Symptom	Correction
Abnormal or no picture	<ul style="list-style-type: none"> Check the connection. Plug the power cord into the wall outlet securely. Make sure the camera(s) and LCD monitor switched on. Make sure rechargeable battery is charged. Check the batteries polarity with ⊕ and ⊖ aligned correctly.
Interference on Camera picture	<ul style="list-style-type: none"> Make sure each camera is within range, and that no large obstructions are blocking the signal. Try repositioning the camera, monitor or both to improve the reception quality. Reposition other nearby equipment transmitting on the 2.4GHz frequency.
Audio problems	<ul style="list-style-type: none"> Ensure the volume is turned up sufficiently on the monitor. Make sure the sound is within the microphone range. If the units emit a loud wailing sound(feeds back), try moving the camera away from the monitor or angle the monitor differently.

Wireless Camera

Item	Description
Rated Voltage	DC 9 V
Rated Current	400 mA
Transmit Power	Less than 10mW
Frequency Range	2.4~2.48 GHz
Frequency	2.41, 2.44, 2.47 Ghz
Modulation Method	FM
Oscillation Method	PLL
Image Sensor	1/3" CMOS IC
Integrated Lens	5.6mm, F1.8 Fixed Focus
TV System	NTSC/PAL (Color) Standard
Auto Electronic Exposure	1/60~1/15000 sec.
Min Illumination	0.5 Lux
Resolution	360 Horizontal TV lines
Signal/Noise Ratio	48dB
Overall Size	95mm W x 107mm H x 62mm D
Weight	100g (Without Battery)
Operating Temperature	-10° to 40°
Operating Humidity	Less than 85%

Antenna

Item	Description
Frequency Range	2.400 --- 2.483Ghz
Polarizaion	Monopole
SWR	< 2 : 1
Gain	50 dBm
Impedance	50 Ohm
Outline Size	ø12x85mm (Transmitter)/ ø12x145mm (Receiver)

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.
- 2) This device must accept any interference received including interference that may cause undesired operation

Specifications

LCD Monitor

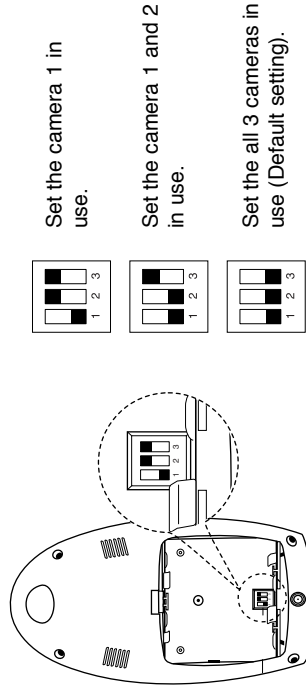
Item	Description
Rated Voltage	DC 9 V
Rated Current	800 mA
Frequency Range	2.4~2.48 GHz
Frequency	2.41, 2.44, 2.47 Ghz
Intermediate Frequency	480MHz
Type of Radio Waves	Analog
Display Mode	TMR
Display Size (Diagonal)	2.5 inch (LSP-R1000), 1.8 inch (LSP-R1100)
Number of Dots(HxV)	882x228 Dot
Dot Pitch (H x V)	0.056 x 0.168 mm
Color Number	Full Color/16 Million
Viewing Angle	U/D: 17/45o L/R: 45/45o
Brightness	250cd/m2
Contrast Rate	200:1
Light Source Type	LED
TV System	NTSC/PAL (Color) Standard
Color Configuraton	R.G.B Strip
Overall Size	75mm (W) x 118mm (H) x 46mm (D)
Weight	180g
Operating Temperature	-10° to 40°
Operating Humidity	Less than 85%

Multi-camera Operation

If you use the multi camera, you must set the Dip-switch for each camera and the LCD monitor. The LCD monitor system is designed to work with up to three cameras. Additional cameras have to be purchased.

- Dip-switch positon of the LCD monitor**

You can find the dip-switch on the battery box as shown below.



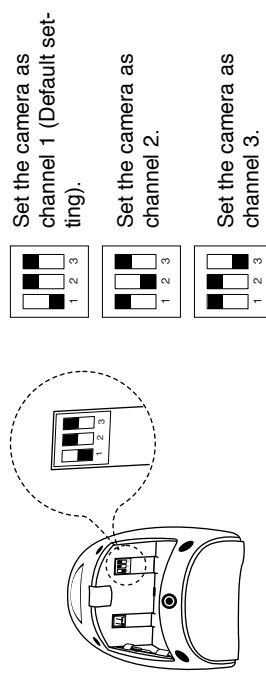
Set the camera 1 in use.

Set the camera 1 and 2 in use.

Set the all 3 cameras in use (Default setting).

- Dip-switch positon of Wireless Camera**

You can find the dip-switch on the battery box as shown below.



Set the camera as channel 1 (Default setting).

Set the camera as channel 2.

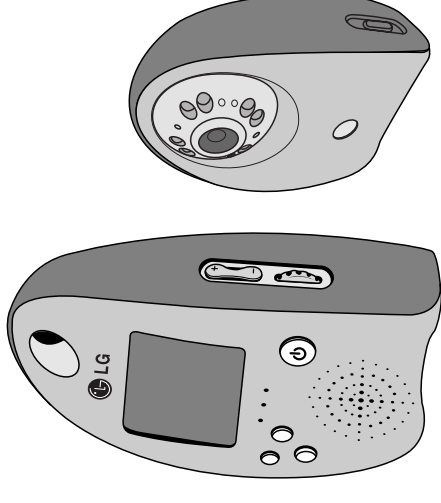
Set the camera as channel 3.

LG WIRELESS HOME VIEWER

Instruction Manual

Models : LSP-R1000
LSP-R1100

Before installing, operating or adjusting this product, please read this instruction booklet carefully and completely.



P/NO : MFL3058013?

Important Safety Instructions

1. **Read these instructions.** - All these safety and operating instructions should be read before the product is operated.
2. **Keep these instructions.** - The safety, operating and use instructions should be retained for future reference.
3. **Heed all warnings.** - All warnings on the product and in the operating instructions should be adhered to.
4. **Follow all instructions.** - All operating and use instructions should be followed.
5. **Do not use this apparatus near water.** - For example: near a bath tub, wash bowl, kitchen sink, laundry tub, in a wet basement; near a swimming pool, etc.
6. **Clean only with dry cloth.** - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners.
7. **Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.** - Slots and openings in the cabinet are provided for ventilation, to ensure reliable operation of the product, and to protect it from over-heating. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided and the manufacturer's instructions have been adhered to.
8. **Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.**
9. **Do not defeat the safety purpose of the polarized or grounding-type plug.** A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. **Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.**
11. **Only use attachments/accessories specified by the manufacturer.**
12. **Use only the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.**
13. **Unplug this apparatus during lightning storms or when unused for long periods of time.**
14. **Refer all servicing to qualified service personnel.** Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled on objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



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

This 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 product.

FCC WARNING : This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

Regulatory Notices For U.S.A

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

- A suitable conduit entries, knock-outs or glands shall be provided in the cable entries of this product in the end user.
- Caution: Danger of explosion if battery is incorrectly replaced. Replaced only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.
- Holes in metal, through which insulated wires pass, shall have smooth well rounded surfaces or shall be provided with bushings.

Warning: Do not install this equipment in a confined space such as a bookcase or similar unit.

Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Warning: To reduce a risk of fire or electric shock, do not expose this product to rain or moisture.

Caution: This installation should be made by a qualified service person and should conform to all local codes.

Caution: To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

Caution: The apparatus should not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, should be placed on the apparatus.

FCC NOTE:

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.