

**2.4 GHz WIRELESS
SURVEILLANCE SYSTEM
USER'S MANUAL**

SAFETY INFORMATION

CAUTION:

RISK OF ELECTRONIC SHOCK DO NOT OPEN

CAUTION:

DO NOT REMOVE THE COVER FOR REDUCING THE RISK OF ELECTRIC SHOCK.

NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING:

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

Safety term and Symbols

! **Warning:** Warning statements identify conditions or practices that could result in injury or loss of life.

! **Caution:** Caution statements identify conditions or practices that could result in damage to this product or other property.

Danger: Do not remove the cover for reducing the risk of electric shock.

IMPORTANT SAFETY INSTRUCTIONS

1. All the safety and operating instructions should be read before the product is operated.
2. The safety and operating instructions should be retained for future reference.
3. All warnings on the product and in the operating instructions should be adhered to.
4. All operating and use instructions should be followed.
5. Unplug this products from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for the cleaning.
6. Do not use attachments not recommended by the products manufacturer if they may cause hazards.
7. Do not use this product near water – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool; and the like.
8. Any mounting of the product should follow the manufacturer' s instructions, and

should use a mounting accessory recommended by the manufacturer.

9. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type or power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instruction.
10. Power supply cord should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, or other sources, refer to the operating instructions.
11. For added protection for this product during a lightning storm, or it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
12. Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electronic shock. Never spill liquid of any of any kind on the product.
13. Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
14. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions.
 - When the power-supply cord or plug is damaged.
 - If liquid have been spilled, or objects have fallen into the products
 - If the product does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore this product to its normal operation.
 - If the products has been dropped or damaged in any way.
 - When the product exhibits a distinct change in performance – this indicates a need for service.
15. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
16. Upon completion of any service or repair to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
17. The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products including amplifiers that produce heat.

FCC

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.

Note: 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.

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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1. Introduction

1.1. Overview

The Wireless Surveillance System with infrared illumination is just as your 24hrs baby sitter, home/camp guard and company monitoring. The rechargeable battery can let the camera working without power adaptor.

1.2. Features:

- 1. High-Resolution Color CMOS Camera
- 2. USB Video Capture Adaptor (Optional)

3. High Performance Audio/ Video Receiver
4. Built-In Rechargeable Battery
5. Built-In Microphone for Audio Monitoring
6. Infrared Illumination Provides Images in the Darkest Location
7. With CDS Sensor, Auto Switch "Color" on day time and B/W on night time
8. Antenna embedded
9. Operating frequency of ISM band 2.4 ~ 2.4835 GHz
10. 4 channels selectable
11. Range up to 300 feet (L.O.S.)
12. Easy installation

2. Check Package before Use

2.1. One unit of Wireless Camera

The Wireless Camera emits Audio and Video signals over 2.4GHz radio frequency carrier.

2.2. One unit of Rechargeable Battery

The battery provides power to the Wireless Camera when you don't use the attached power adaptor.

Note: *Caution & Warranty of Battery:

1. Reverse charging is not acceptable.
2. Charge before use, although the batteries are delivered in a charged state.
3. Do not charge / discharge with more than the specified current.
4. Do not short circuit the battery. Permanent damage to the battery may result.
5. Do not incinerate or mutilate the battery.
6. Do not solder directly to the battery.
7. The life expectancy may be reduced if the battery is subjected to adverse conditions like: extreme temperature, deep cycling, excessive overcharge / over discharge.
8. Store the battery in a cool dry place.
9. For storage of batteries over one year. In order to prevent the

degrading the function of cells, batteries should be at least charged and discharged once within one year.

10. Keep away from children. If swallowed, contact a physician at once.

11. One year limited warranty against workmanship and material defects.

2.3. One unit of Receiver

The Receiver receives 2.4GHz wireless Audio and Video signals from the Wireless Camera.

2.4. Two units of power Adaptors

Two power adaptors supply +9V(300mA) DC power to the Wireless Camera and the Receiver.

2.5. One unit of Mounting Bracket

The mounting bracket is used to bolster up the Wireless Camera.

2.6. One unit of RCA/SCART Cable

The RCA cable is used to connect the Receiver to your A/V displays.

A/V displays: computer monitor (converted card required), powered speakers, TV monitor etc.

2.7. One unit of USB Cable (Optional)

The USB cable connects the Receiver to computer and changes the analog signal to digital USB signal.

2.8. One unit of Disk/CD for USB Driver (Optional)

This disk/CD includes the USB driver. Please refer to the attached USB Cable manual.

Note: If any accessories listed above are missing, please contact the sales representative where you purchase the Wireless Surveillance System.

13. Controls / Functions

1. Wireless Camera

Front & Side

Rear

1. IR LED
2. Lens
3. Microphone
4. Rechargeable battery
5. Power
6. DC jack
7. Power indication LED
8. Charge jack

Inside Channel Selection

Open the battery cover and connect the jumper to the connector.

3.2. Receiver

Front & Side

Rear

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

Channel Selection

Channel : Flash once In one time

Channel : Flash twice In one time
Channel : Flash thrice In one time
Channel : Flash quartic In one time

14. How to Connect

4.1. Wireless Camera

4.1.1. Plug the Wireless Camera into the power outlet with attached adaptor or load the charged battery.

4.1.2. Combine the Wireless Camera and the mounting bracket.

4.1.3. Fasten the mounting bracket on the wall or ceiling

4.2. Receiver

4.2.1. Connect the Receiver to the TV with Audio/Video cable, or connect the Receiver to your computer with RCA cable and USB cable. (Please insert the attached disk into floppy and install the USB driver before connecting the Receiver to your computer.)

4.2.2. Plug the Receiver into the power outlet with attached adaptor.

5. Operations

- Turn on the power of Wireless Camera, Receiver and A/V display.
- The power indication LED on Wireless Camera will light up.
- Change the Wireless Camera / Receiver to the same channel.
- Wireless Surveillance System watch wherever you want day and night

Note: *Gaze at IR LED closely for a long time results in uncomfortable eyes.

*The operation temperature is from 0 ~ 60 .

6. Trouble Shooting

Please read this user' s manual carefully before using the Wireless Surveillance System. If you still have difficulties to use the Wireless Surveillance System consult the following syndrome, which will guide you to solve most common problems.

6.1. No picture or Sound

- Check the DC adaptor rightly connected.
- Power ON/OFF switch is in right position.
- Check the battery is loaded and charged when you don' t plug the DC adaptor.
- Check all the cables well and rightly connected.

6.2. Unclear picture

- When you cycle the lens for focus, you can' t touch the lens and plastic cover from dirtying.
- Wipe the lens with lens cloth.
- Please circle right the lens. If the picture is not clearer, circle left the lens then it can focus rightly.

6.3. Interference in the Image and Sound

- Move your Wireless Camera or Receiver slowly to find a best reception position.
- Shorten the distance between your Wireless Camera and Receiver.

-Check if there is any interference radio frequency source near your Receiver source such as microwave oven.

7. Specifications

7.2. Wireless Camera

Item	Specifications	
Scanning System	2:1 Interlace NTSC	2:1 Interlace PAL
Image Sensor	1/3" CMOS Image Sensor	
Efficiency Pixels	510 (H) X 492 (V)	628 (H) X 582 (V)
Horizontal Scan Frequency	15750 Hz	15625 Hz
Vertical Scan Frequency.	60 Hz	50 Hz
Synchronize	Internal	
Resolution	More Than 230TV Lines	
Min. Illumination	3 LUX (F1.2)	
S/N Ratio	More Than 42 dB (AGC OFF)	
Video Output	1.0 Vpp / 75 composite Video Signal	
Auto Electronic Exposure	1/50 ~ 1/15000 sec.	
Auto white Balance	Auto	
Supply voltage	9V dc	
Power Consumption	IR LED On 200mA IR LED Off 80mA (800 mW ~ 1600 mW)	
Operation Temperature	0 ~ 60	
Lens (Optional)	F3.6 mm, F 2.0 (Fix Board Lens)	
IR Control	Auto	
IR LED	6 pcs	
Audio output	84 db / 600 load	
Weight	Approximate 144.2g (W/O Battery) Approximate 228.8g (W/ Battery)	
Size	129.6L x 70W x 58.6H (mm)	

7.2. Receiver:

Item	Specification
Frequency	2400 MHz ~ 2483 MHz

Receiver Sensitivity	-90 dBm (min.)
Channel Number	4 (2414,2432,2450,2468MHz)
L.O. Stability	±100 KHz (typ.)
Video Output Level	1Vp-p (typ.)
Audio Output Level	1Vp-p (typ.)
Supply Voltage	9V
Power Consumption	200mA (typ.)
Antenna	Embedded
Dimension	145D x 92W x 40H (mm)
Operating Temperature	-10 ~ +60

To provide the latest technologies product to our customer is our responsibility, therefore, we reserve the right to change the specifications without prior notice.