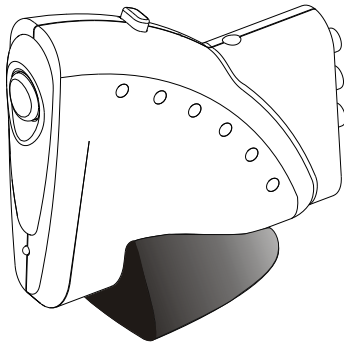
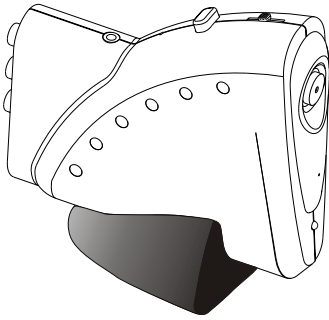


2.4GHz Wireless System

■ 2.4 GHz Wireless Audio/Video System Built-in Color CMOS Camera



1. INTRODUCTION	• • • • •	1
2. PACKAGE CONTENTS	• • • • •	3
3. CONTROLS	• • • • •	3
4. SYSTEM INSTALLATION	• • • • •	4
5. OPERATION	• • • • •	5
6. TROUBLESHOOTING	• • • • •	7

GENERAL SAFETY SUMMARY



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.

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 cable system. This will prevent damage to the product due to lightning and powerline 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 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.

1. INTRODUCTION

Overview

Magic Audio/Video System built-in color CMOS Camera uses the latest wireless technology to send stereo audio and video images around your home. Watch your favorite TV programs or listen to Hi-Fi quality stereo sound in any part of your home without cables extended. CMOS Camera is as your baby sitter and security guard, make you enjoy advanced technology and secure life.

Features

- 2.4GHz Wireless Sender and Receiver with 4 selectable channels (DIP Switch)
- Built-in microphone and color CMOS camera
- Transmit the crisp Audio /Video signal with radio frequency.
- Antenna (2.4 GHz) embedded in the housing
- Remote control the A/V source with IR Extender
- Range up to 300 feet (L.O.S.)
- Compatible with Camcorder or CMOS camera application
- Low power consumption
- NTSC/PAL video format available

Application

- Wireless A/V Entertainment
- Home Security
- Baby Monitor

Specification

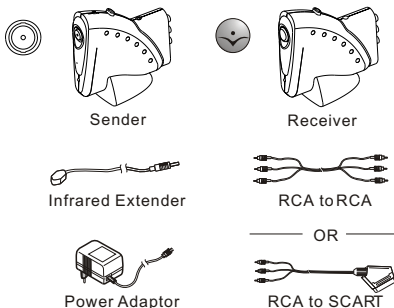
Characteristic		
Model	Sender	Receiver
Description	2.4GHz Wireless A/V Sender	2.4GHz Wireless A/V Receiver
Frequency	2400MHz ~2483MHz	
Transmitter Power	10dBm(Typ.)	
Receiver Sensitivity		-85dBm(Typ.)
Channel Number	4 (2414, 2432, 2450, 2468 MHz)	
Frequency Stability	+ / - 100KHz (Typ.)	
Audio / Video Input Level	1 Vpp (Typ.)	
Adaptor Power Supply	9V ; 300mA	
Power Consumption	90mA (Typ.)	200mA (Typ.)
Antenna	Dipole	
Dimension	125 x 66 x 117 mm	
Operating Environment	-10°C ~ +50°C	

Characteristic		
Model	Wireless Camera - CMOS	
Scanning System	2:1 Interlace	2:1 Interlace
	NTSC	PAL
Image Sensor	1/3" CMOS Image Sensor	
Efficiency Pixels	510(H) X 492(V)	628(H) X 582(V)
Horizontal Scan Frequency	15750Hz	15625Hz
Vertical Scan Frequency	60Hz	50Hz
Synchronize	Internal	
Resolution	More than 230TV Lines	
Min. Illumination	3LUX(F1.2)	
Video Output	1.0Vpp/75Ω composite	
Auto Electronic Exposure	1/50 ~ 1/15000 seconds	
Power Consumption	35mA(200mW)	
Operation Environment	-10°C ~ +50°C	
Lens	F5.6 mm, F2.0	

2. PACKAGE CONTENTS

Check all of the components shown as below are included in box before using.

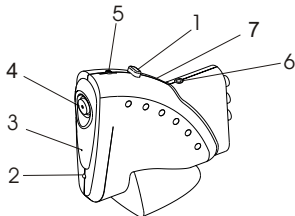
1. Sender x 1
2. Receiver x 1
3. Infrared Extender x 1
4. Audio / Video Cable x 2
5. 9V DC Power Adaptor x 2
6. Users Manual x 1



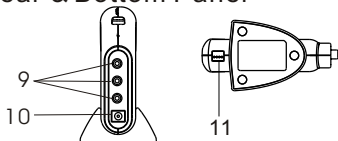
3. CONTROLS

The Sender

Front & Side Panel



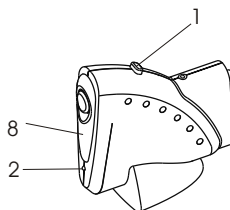
Rear & Bottom Panel



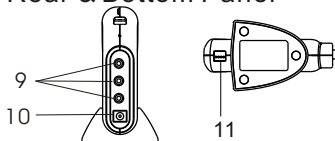
1. Power On/Off Button
2. LED Power Indicator
3. Microphone
4. Camera Lens
5. Slide switch for camera angle

The Receiver

Front & Side Panel



Rear & Bottom Panel



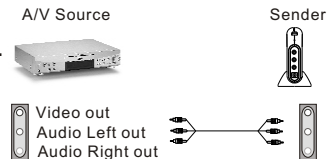
6. IR Extender Jack
7. Camera/AV sender switch
8. IR Window
9. Audio/Video Jack
10. Adaptor Jack
11. Channel Selector

4. SYSTEM INSTALLATION

Audio/Video Sender

1. Connect the Sender to A/V Sources external A/V OUTPUT jack with A/V cable.

A/V Sources: Video Recorder, Digital Video Disc., Compact Disc Player, Satellite Receiver, Camcorder, Stereo Receiver, Security Camera, Hi-Fi System, Laser Disc Player, Computer, Cassette Deck etc.

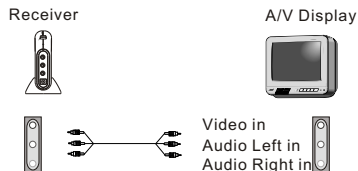


2. Connect the Receiver to A/V Display external A/V INPUT jack with A/V cable.

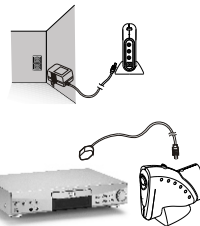
A/V Displays: Computer Monitor (Converted card required), Powered Speakers, TV Monitor etc.

A/V Cable: RCA to RCA Cable or
RCA to SCART Cable.

Note: RCA to SCART Cable is used in Europe.

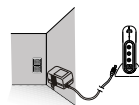
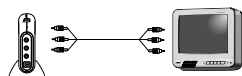
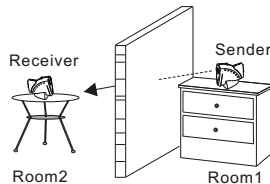


3. With power adaptors plug the Sender and Receiver into standard electrical outlets.
4. Plug the IR Extender into the IR Extender jack on the Sender; and place the IR Extender in front of the A/V appliances which you want to control.



Wireless Camera

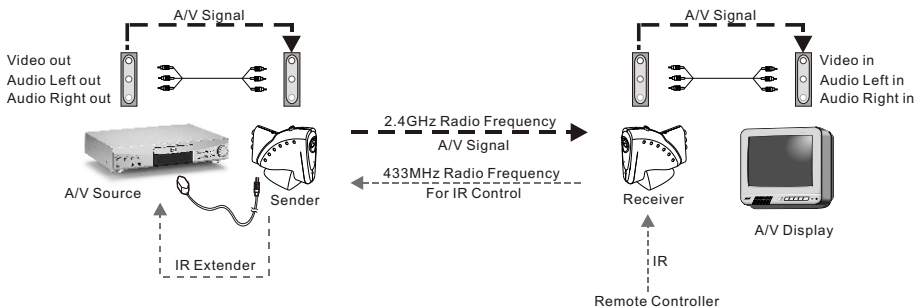
1. Put the Sender and Receiver on desk or anywhere flat and convenient in the house.
2. Connect the Receiver to A/V Display external A/V INPUT jack with A/V cable.
3. With power adaptors plug the Sender and Receiver into standard electrical outlets.



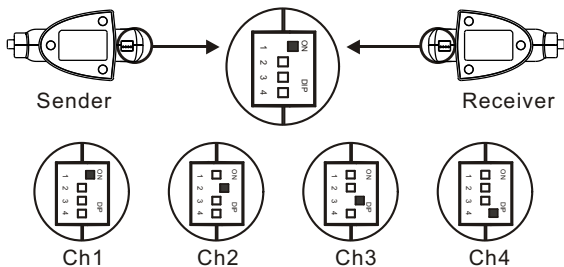
5. OPERATIONS

Please note each Sender is set in channel one and Audio/Video Sender mode when it is leaving factory.

Audio/Video Sender

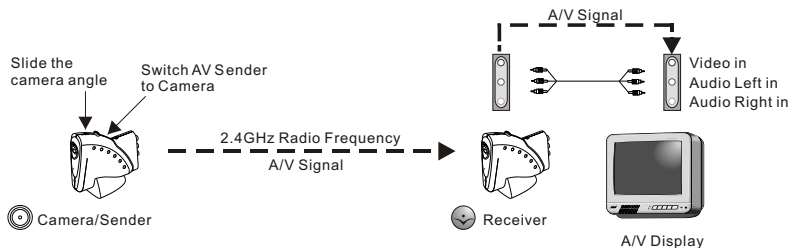


1. Turn on the Sender and Receiver.
2. Make sure the LED power indicators of Sender and Receiver rightly light up.
3. Turn on A/V sources and A/V display.
4. Adjust Channel Selectors on bottom of the Sender and Receiver to the same channel.

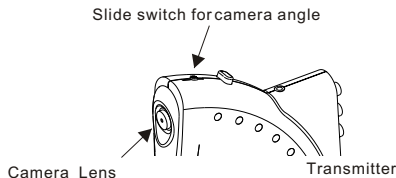
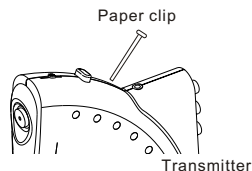


5. Enjoy the wireless A/V entertainment.

Wireless Camera



1. Turn on the Sender and Receiver.
2. Turn on A/V display.
3. Make sure the LED power indicators of Sender and Receiver rightly light up.
4. Exchange Sender to Camera function by a paper clip inserting and pressing into the top small hole.
5. Adjust the Channel Selectors to the same channel.
7. Make sure the microphone built-in Sender work properly.
8. Slide the camera switch on top of Sender to adjust lens to align wherever you want to monitor and get the best focus in image.



Note: The operation temperature is from -10°C ~ $+50^{\circ}\text{C}$.

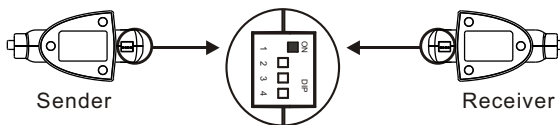
6. TROUBLE SHOOTING

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

1. No Pictures or Sound

- Check the adaptor rightly connected.
- Power On/Off switch is in right position.
- Check the A/V cable is inserted into the OUTPUT or INPUT A/V jack accurately. (See page 4)
- Check all the cables well and rightly connected.
- Check A/V Sender and Camera switch completely.
- Check Sender and Receiver at the same channel.

EX: Switch Channel Selector to Ch1



2. Interference in the image and sound

- Move Sender or Receiver slowly to find a best reception position for your A/V system.
- Shorten the distance between Sender and Receiver.
- Check if there is any interference radio frequency source near the Receiver source, such as microwave oven.
- If there is any interference radio frequency source near Receiver, try to switch the channel to get a best performance.
- Check Sender and Receiver at the same channel.

3. Remote Control does not work properly

- Check if the Remote Control is out of battery.
- Make sure Remote Control align the Receiver IR window.
- Make sure a proper distance between Remote Control and Receiver IR window.

IR Extender

Item	Transmitter	Receiver
Frequency	433.92 MHz	
Modulation	FSK	
IR Operation Range	6 meters (min.)	
Transmitter Power EIRP	1/10 mW (FCC/ CE & BZT)	
Sensitivity		-90dBm
Receiving Range from Tx		30meters (typ.)
Antenna	Monopole	

Warning : Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

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.

The user 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.



WIRELESS

2.4 GHz

**Audio/Video
Camera⁺**