

DigiminiAir User's Manual

Digital Wireless Mini Indoor Camera Kit
with Audio

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This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device should not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

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

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For Tech Support Call: 888-977-3777

SecurityMan

4601 E. Airport Drive

Ontario, CA, 91761, USA

Tel: 909-230-6668

Fax: 909-230-6889

Email: info@securitymaninc.com

Website: www.securitymaninc.com

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Introduction

Thank you for purchasing SecurityMan **DigiminiAir**. The **DigiminiAir** is a “Do-It-Yourself” Digital Wireless Security camera kit designed for easy installation and operation. With surveillance made easy, this DIY kit will allow you to monitor your home, business, front or back doors, garage, backyard, or any location that you would like to keep an eye on. In comparison to the traditional wireless technology (analog), digital wireless provides three key features which include: increased range of transmission, secure signal (neighbors cannot pick up the signal) and unlike analog, the digital signals are virtually interference-free from crowded wireless analog devices such as: Wi-Fi routers, Bluetooth devices, cordless phones, microwaves, and cell phones.

Important

This guide provides important information on the use and operation of your **DigiminiAir**. Please read all the information carefully prior to using the product for the best performance and to prevent any damage/injuries or misuse of the device(s). Customers are entitled to have read through this complete user’s manual before using the **DigiminiAir**. Any unapproved changes or modifications will void your warranty.

Operating Restrictions

When using this product, the safety precautions below must be taken to avoid possible legal liabilities and damages.

PLEASE NOTE that under certain circumstances, audio/video recording may be PROHIBITED by law. This device should be used only in compliance with all applicable federal, state and local statutes.

- **DO NOT** place this product too close to medical equipments. Radio waves might potentially cause breakdown of electrical medical equipment. This product should be placed at least one foot away from any heart pacemaker. Radio waves might potentially influence heart pacemaker and lead to respiratory disturbance.
- **DO NOT** use this product to violate one's privacy. Monitoring one's private activities without consent is illegal and this product is not designed and manufactured for these purposes.
- **DO NOT** use this product to carry out any illegal activities such as sneak preview, and etc. SecurityMan shall not be responsible for any consequences of illegal conducts made by users.
- **DO NOT** put the plastic package bags in reach of children or babies. Young children can choke on these items if they put them into their mouths.
- **DO NOT** plug the AC adapter into the outlet in improper situations.
 - Plugging in an AC adapter with wet hands might cause electric shock.
 - Plugging in the AC adapter unsteadily might cause fire or electric shock.
- **DO NOT** cover the AC adapter when it is connected to an outlet, place the adapter near heaters, or put it on the floor which is equipped with a heater. The above mentioned operation might cause fire or incidents.
- **DO NOT** use it aboard; please abide by the airway's provision. It might influence communication aboard and the flying apparatus if departing from the airway's regulation. This will result in accident, possible death and severe physical hurt.
- **DO NOT** disassemble or repair the camera, receiver or other relevant peripheral equipments by yourself. Improper disassembly might cause damage to the product internal parts, the peripheral equipment, or personal injury.

- **DO NOT** put the camera in quaky paces. The camera may be unstable or out of operation if installed improperly. Such installation may also cause breakdown.
- **DO NOT** touch, shake or hold the antenna. Touching, shaking or holing the antenna might influence the receiving of electromagnetic wave, and thereby influence the receiving effect.
- **DO NOT** use the camera in complex environment, the obstruction of stumbling block will affect the electromagnetic wave and influence the receiving range. Wall, tree and other stumbling block might absorb, reflect the electromagnetic wave, and influence the receiving range.
- **DO NOT** use the camera in the places which are covered with metal. The around metal, such as elevator and cabin, might shield the electromagnetic wave, and result in inability to receive signals.
- **DO NOT** use the camera near aggressive chemicals.
- **DO NOT** place the product near any strong magnetic objects
- **DO NOT** disassemble the product.
- **DO NOT** shake or strike the product.
- **DO NOT** attempt to service the product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Conditions

Please read the following messages to make sure your working environment is suitable.

- The temperature should be kept between -20°C and 60°C (-4°F to 140°F). The relative humidity should be kept between 20% and 80%.

- Avoid putting the product in places where temperature or humidity may change rapidly in temperature or humidity.
- Keep it dry, dustless and avoid exposure directly in sunlight.
- Keep product away from heat sources such as electric heater.
- It might influence the normal operation of the product if used at the fringe range of normal temperature. Please turn off the power when not in use.
- Please obey the local government's environment protection policy.
- In order to avoid inflammation or electric shock, this camera kit should be kept away from exposure to rain or moist, and it shall not be put in or near bathrooms, washing polls, wash houses, moist basements, or swimming pools, unless it is well shielded.
- In use of sockets set on walls or extension wires, attention should be paid not to exceed their load capabilities to avoid inflammation or electric shock.
- Switch off the power supply in thunder and lightning weather or when not in use for long periods of time.

Safety Instructions

- Please read these instructions before using the product. This product is neither waterproof nor dust proof; therefore it cannot be used outdoors or in adverse environment.
- Please adopt original DC power supply, to avoid causing device damage or electric shock or fire.
- Unauthorized dismantlement of the device or replacement of device

parts is forbidden. The manufacturer will not be responsible for any loss arising from such actions.

- Do not put the device into fire, oven or microwave oven, in order to avoid explosion.
- As a result of version changes, the user manual may be different from the actual product. Please take the actual product as the standard.

Features

- Do-it-yourself (D.I.Y) easy to setup and use wireless camera kit
- Mini size camera design.
- Wireless transmission up to 200ft between walls or up to 350ft in clear line of sight.
- No Wi-Fi interference; no interference from crowded analog 900MHz/2.4GHz/5.8GHz/6.0GHz devices.
- Built-in microphone for audible recording up to 20ft away.
- AV output RCA interface from receiver to monitor for live display or to a recorder.
- Digital wireless pairing between camera and receiver, worry free of signal interception by neighbors.
- Supports up to 4 sets of digital wireless camera/receiver (CH1-CH4) to a location.
- One receiver can support up to four digital wireless cameras (switching one camera at a time).
- Video signal loss alert notification.

Package Contents



**1 x Receiver
(SM-451DR)**



**1 x Camera
(SM-209DT)**



1 x AV Cable



2 x AC Adapters



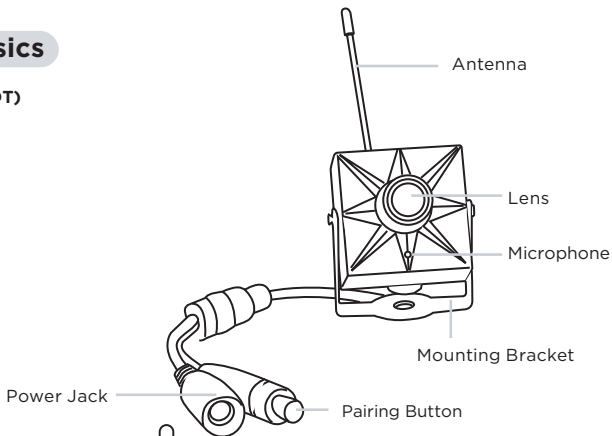
4 x Screws



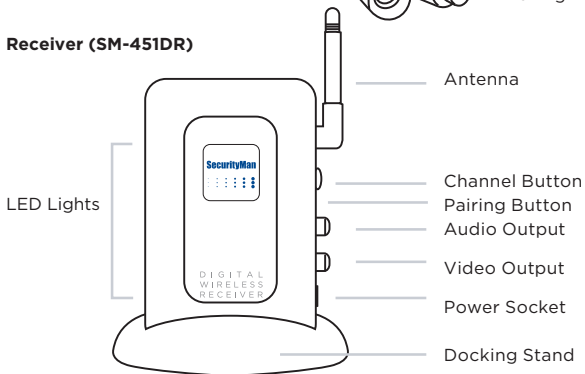
User's Manual

Product Basics

Camera (SM-209DT)



Receiver (SM-451DR)



Quick Start

Please follow steps 2-5 below and test both the camera and the receiver first prior to installing the camera in the desired location. Do a simple test to make sure the camera and the receiver are both working and that the receiver are able to pick up the camera image.

Camera Installation (SM-209DT)

1. Mounting the camera:

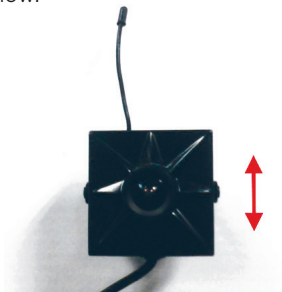
- a) Detach the cameras mounting bracket by removing the two screws located on the left and right side of the camera using a Philip screw driver.



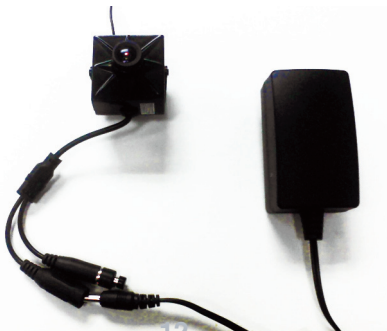
- b) Secure the camera's mounting bracket in the desired location using the wall mount bracket and screws provide as shown below.



c) Re-attach the camera to the mounting bracket and adjust the viewing angle as needed (adjust by tilting up and down) as illustrated below.

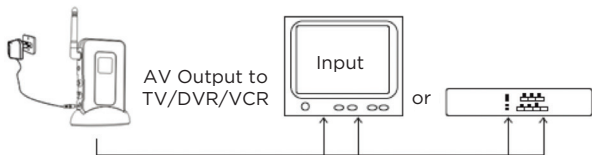


2. Connect the power adapter plug into the power socket attached to the camera and then connect the power adapter (5VDC, 1.5A) into an electrical power outlet as shown below.



3. Plug the receiver power supply (5VDC, 1.5A) to the receiver's DC IN port and the other end to an electrical power outlet. Next, connect the AV cable out from the receiver to your TV/monitor or recording devices (VCR or DVR) AV input.

Note: To power on the receiver, simply plug in the power supply, the receiver do not have power ON/OFF switch. Make sure all cords are connected, tight and that you are following the proper color coding (Video/Yellow, Audio/White or Red)



4. Turn on your TV/monitor and set it to the appropriate input channel. The TV/monitor must be on the A/V Input that you connected the receiver to. For Example; A/V 1, Input 1, Video 1, Line 1, or Game 1. Once the TV/monitor is on the proper input channel, you should receive your picture and be able to hear audio from the camera's microphone.

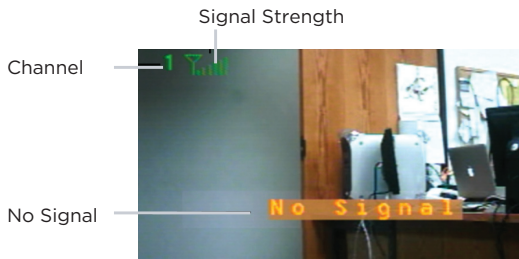
Note: To tune your TV/monitor to the proper input channel, you must do it directly on the TV/monitor itself or with the original TV remote.

5. By default, the camera is paired to Channel 1. If there is no picture displayed on your TV/monitor, simply switch the receiver to Channel 1, and press the code-matching buttons on camera and receiver simultaneously. The camera image will immediately be displayed on the screen after successfully being matched to the receiver.



NOTE: Pairing must be done within 20ft.

On-Screen Display



Signal Strength

The signal bars on the on-screen display indicates the signal strength between the camera and the receiver. [0-1 bars = weak/no reception; 4 bars = strong reception]

Channel

The channel number corresponds to the camera that is being monitored

or recorded. You can toggle between channels by simply pressing the “CH” button located on the receiver.

No Signal

A “NO SIGNAL” notification will be displayed (followed by a melody) whenever the user toggles to a channel with no camera matched to it or if the camera and receiver are not successfully matched.

NOTE: The “Channel” and “Signal Strength” icons will turn orange during the no signal warning.

Operation

Adding and Pairing camera to the receiver

To match multiple cameras to your receiver (4 max), simply switch the receiver to a channel not being used (no signal), and press both code-matching buttons on the camera and the receiver simultaneously (within 20ft recommended). The camera image will immediately be displayed on the screen after successfully being matched to the receiver. A “NO SIGNAL” notification will be displayed, followed by a melody if you switch the receiver to a channel that does not have a camera matched to it.

NOTE: A “NO SIGNAL” notification will be displayed, followed by a melody. Be sure to pair the add-on cameras with 20 feet of the receiver. A simple transmission test to ensure both cameras and receiver are functioning before applications.

Switching between channels/cameras

You can switch between cameras by manually pressing on the “CH” button located on the receiver. A “NO SIGNAL” notification will be displayed, followed by a melody if you switch the receiver to a channel that does not have a camera matched to it.

NOTE: Channel can be changed by manually pressing on the “CH” button; auto channel switching is not supported.

Specifications

SM-209DT (camera)	Image Sensor	1/4" CMOS Color
	Resolution	510 x 492 pixels (NTSC)
	View Angle	60 degree
	Audio	Microphone built-in (up to 20ft)
	Minimum Illumination	3 Lux/F1.2
	Pairing Button	1
	Power Supply	DC 5V / 1.5A
Dimensions	1.45" x 1.45" x 0.8"	
SM-451DR (receiver)	Channel Button	1 CH button (Manually Select CH1-CH4)
	Pairing Button	1
	AV Output	1 x Video out (RCA); 1 x Audio out (RCA)
	Power Supply	DC 5V / 1.5A
	Dimensions (LxWxH)	4.2" x 2.7" x 0.9"
Stand	1 x docking stand	
Wireless	Frequency	ISM 2400 - 2480 MHz (CH1/CH2/CH3/CH4)
	Receiver Sensitivity	≤ -85dBm
	Modulation	GFSK
	Antenna	Omni 3dBi
	Transmission Distance	Up to 350 ft clear line of sight; up to 200ft (indoor)
	Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Operating Humidity	20% -80% RH	

Troubleshooting

Q: There is no picture from a camera?

Check all connections to the camera and the receiver. Make sure that the camera and receiver are both ON and that the camera(s) is in range of the Receiver.

Q: The image from the camera(s) is choppy and/or keeps cutting out?

The wireless receiver may be out of range of the camera(s). Use the signal bars on the on-screen display to observe signal strength. 0-1 bars = no/weak reception; 4 bars = strong reception.

Q: I can't hear any sound on my TV?

Check the connections between the receiver and the TV, specifically the red and/or white connector(s) are plugged in correctly. Check the volume settings on the TV. Also, remember that the range of the microphone is not the same as the range of the camera - the camera will detect anything in front of it that it sufficiently lit, however a microphone will only pick-up sound within a few feet (unless the sound is very loud).

FCC STATEMENT

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

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.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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