



DigioutAir User's Manual

Digital Wireless Outdoor/Indoor Color
Camera Kit with Audio and Night Vision

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FCC Information

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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Introduction

Thank you for purchasing the SecurityMan **DigioutAir**. The **DigioutAir** 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 **DigioutAir**. 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 **DigioutAir**. Any unapproved changes or modifications will void your warranty. Please ensure to have a complete understanding of the following restrictions.

Restrictions

When using this product, the safety precautions below must be taken to avoid possible legal liabilities and damages. Retain and follow all product safety and operating instructions. Observe all warnings in the product operating instructions. To reduce the risk of bodily injury, electric shock, fire, and damage to the equipment, observe the following precautions.

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.
 1. Radio waves might potentially cause breakdown of medical electrical equipments and thus cause incidents.
 2. Place the product at least 22cm from the heart pacemaker. Radio wave potentially influences heart pacemaker and thus leads to respiratory disturbance.
- **DO NOT** use this product to monitor equipments or activities that are relevant to 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** 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 damages to the product or the peripheral equipment.
- **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.

Conditions

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

- The temperature should be kept between -20°C and 50°C (-4°F to 122°F). The relative humidity should be kept between 20% and 80%.
- Avoid putting the product in places where temperature or humidity may change rapidly.
- Keep product away from heat sources such as electric heaters.
- Do not use the camera near harmful chemicals.
- Do not place product near any strong magnetic objects
- 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.
- Do not disassemble the product.
- Do not shake or strike the product.
- Please obey the local government's environment protection policy.

Package Contents



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



**1 x Camera
(SM-703DT)**



1 x Bracket



1 x Antenna



2 x AC Adapters



1 x AV Cable



5 x Screws



User's Manual

Specifications

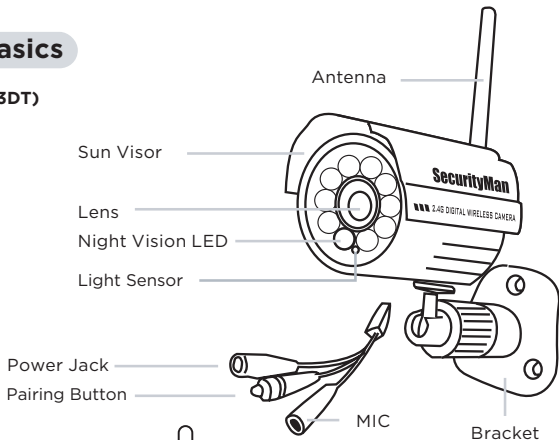
SM-703DT (Camera)	Image Sensor	1/4" CMOS Color
	Resolution	510 x 492 pixels (NTSC)
	View Angle	35 degree
	Weatherproof Rating	IP65
	Night Vision Range	Up to 50ft / 15m (B/W)
	Audio	Microphone built-in (audio monitoring up to 20ft)
	Minimum Illumination	3 Lux/F1.2 (IR off); 0 Lux (IR on)
	Pairing Button	1
	IR LEDs	24 LEDs
	Power Supply	DC 5V / 1.5A
Dimensions (LxWxH)	3.5" x 2.4" x 2.4"	
SM-451DR (Receiver)	Pairing Button	1
	Channel Button	1 CH button (Manually Select CH1-CH4)
	AV Output	1 x Video out (RCA); 1 x Audio out (RCA)
	Power Supply	DC 5V / 1.5A
	Dimensions	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 490 ft (150m) clear line of site; up to 200ft (indoor)
	Operating Temperature	-20°C to 60°C (-4°F-140°F)
Operating Humidity	20% -80% RH	

Features

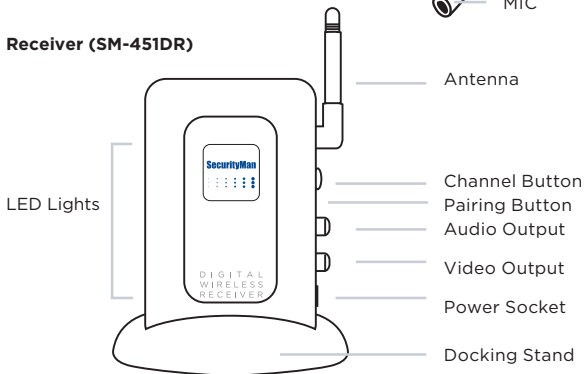
- Do-it-yourself (D.I.Y) easy to setup and use wireless camera kit
- Weatherproof camera housing for outdoor and indoor applications
- Wireless transmission up to 200ft between walls or up to 490ft in clear line of site
- No Wi-Fi interference; no interference from crowded analog 900MHz/2.4GHz/5.8GHz/6.0GHz devices
- Built-in infrared LEDs for night vision up to 50ft (B/W)
- Built-in microphone for audible recording or monitoring 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

Product Basics

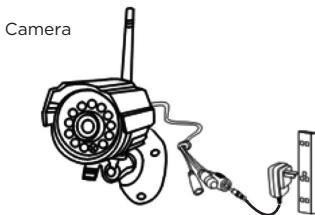
Camera (SM-703DT)



Receiver (SM-451DR)



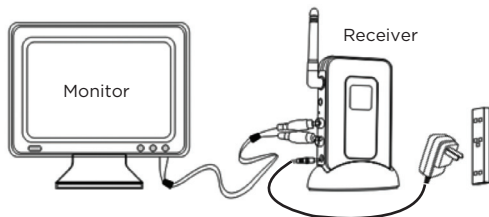
Quick Start



5VDC/1.5A

1. Mount the camera in the desired position. Be sure to plug in the power to the camera and attach the supplied antenna.

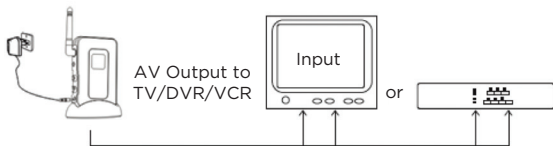
CAUTION: To prevent electric shock or damage to the camera, please be sure to properly insulate the camera's microphone and power connections if being used as an outdoor application. Microphone is for indoor use only.



5VDC/1.5A

2. Plug in the receiver's power supply and connect the AV (audio/video) cable from the AV output of the receiver to your TV or recording devices (VCR or DVR) AV input.

NOTE: Make sure all cords are connected tight and that you are following the proper color coding (Video/Yellow, Audio/White or Red)



3. Turn on your TV and set it to the appropriate input channel. The television must be on the A/V Input that you connected the receiver to. For example A/V 1, Input 1, Video 1 or Line 1. Once the television is on the proper input channel and the receiver is powered ON, you should receive your picture and be able to hear audio from the camera's microphone. The graphic user's interface will display on the monitor as shown below.



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

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]

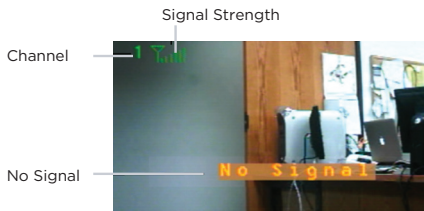
Channel

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 pair multiple cameras to your receiver (4max), simply switch the receiver to a channel that is not in use or no signal and simultaneously press on both Pairing button's located on the camera and the receiver. If it is a new add-on camera, please be sure to pair the camera close by (within 20ft recommended) the receiver first before securing the camera to a desire location. The camera image will immediately be displayed on the screen after successfully being matched and paired to the receiver. The manufacturer default setting for the camera is channel 1.

NOTE: A “NO SIGNAL” notification will be displayed, followed by a melody if the camera and receiver are not successfully paired. To remove the camera from the receiver, simply pair another camera over the existing channel or unplug the power from the camera.

Switching between channels

You can switch between cameras by pressing the “CH” button located on the back of the receiver. The DigioutAir system support manual channel switching only. It does not support automatic channel dwelling and Quad channel view.

NOTE: 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.

Troubleshooting

Q: The power adapters are plugged in both the camera and the receiver, but there is no picture showing on the monitor?

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. Make sure the monitor or TV are set to the auxiliary input channel, ie. INPUT1, INPUT2, VIDEO1, VIDEO2, and etc. Else try pairing the camera to the receiver.

Q: The image from the camera(s) is choppy and/or keeps on 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. Adjust and relocate both the camera and the receiver to try to find better signal bars.

Q: I can't hear any audio sound from the camera(s) 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.

FCC STATEMENT

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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