

SecurityMan®



ClockCam User's Manual

Wi-Fi Interference Free Wireless (900MHz)
Wireless Wall Clock Hidden Camera Kit

Copyright Notice

This manual is furnished under license and may be used or copied only in accordance with the terms of such license. Except as permitted by such license, no part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or any means, electronic, mechanical, recording, or otherwise, including translation to another language or format, without the prior written permission of SecurityMan. The content of this manual is furnished for informational use only, is subject to change without notice, and should not be construed as a commitment by SecurityMan. SecurityMan assumes no responsibility or liability for any errors or inaccuracies that may appear in this book. All other product names, trademarks and registered trademarks in this document are the properties of their respective holders.



FCC Information

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.

Caution

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.

Warning

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

The users manual or instruction manual for an unintentional 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.

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.

Warranty

SecurityMan warrants that this product will be free from defects in materials and workmanship for a period of one year; otherwise, specified on the product packaging. This limited warranty shall commence from the date of purchase. SecurityMan Products warranty is not transferable and is limited to the original purchaser. If the product is found to be defective then, as your sole remedy and as the manufacturer's only obligation, SecurityMan will repair or replace the product. This warranty shall not apply to products that have been subjected to abuse, misuse, abnormal electrical or environmental conditions, normal wear and tear or any condition other than what can be considered normal use.



Limitation of Liability

The liability of SecurityMan arising from this warranty and sale shall be limited to a refund of the purchase price. In no event shall SecurityMan be liable for costs of procurement of substitute products or services, or for any lost profits, or for any consequential, incidental, direct or indirect damages, however caused and on any theory of liability, arising from this warranty and sale. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy.

SecurityMan

4601 E. Airport Drive, Ontario, CA91761, USA

Tel: 888-977-3777 or 909-230-6668

Fax: 909-230-6889

Email: info@securitymaninc.com

Website: <http://www.securitymaninc.com>

Copyright 2009 by SecurityMan v1.0

Notice:

This 900MHz wireless camera works at ISM band. It may cause interferences with other wireless equipment that operates at the same band. Please turn off one of the equipment to eliminate the interference.



Product Assurance

This 900MHz wireless camera will emit electromagnetic wave, just like other wireless products. But the output power of the products is lesser than other wireless products such as mobile phones. This 900MHz wireless camera meets wireless frequency security standards and recommends indexes while working. These standards and indexes are certificated by academic organization and represent the cogitative research of the scientific workers who continuously explore and annotate the involved fields. So we believe that our products are safe for customers.

Operating Restrictions

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 put this product near any medical equipment. Radio waves might potentially cause breakdown of electrical medical equipment. This product should be placed at least 1 foot away from any heart pacemaker. Radio waves might potentially influence heart pacemaker and lead to respiratory disturbance.

DO NOT use this product for any illegal activities. SecurityMan shall not be responsible for any consequences of illegal conducts made by users.



Conditions

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

- Ensure there is enough space around the receiver for ventilation.
- The temperature should be kept between -10°C and 50°C (14°F to 122°F). The relative humidity should remain from 20% to 80%.

- Avoid putting the product in places where occur might change rapidly in temperature or humidity.
- Keep it dry, dustless and avoid exposure in it directly in sunlight.
- Keep product away from heat sources such as electric heater.
- Do not use the wireless camera near aggressive chemicals.
- Do not place product near any magnetic objects.

Warning:

- Do not shake or stricken the product.
- 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 bath-rooms, washing pools, 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.
- Do not disassemble the product casings, otherwise the internal precision parts may get damaged, or personal injury caused.
- Switch off the power supply in thunder and lightning weather or when not in use for long periods of time.

- 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.



Table of Contents

Introduction.....	1
Applications.....	1
Features	2
Package Contents.....	3
Hardware Basic	
Receiver.....	4
Wall-Clock Camera.....	5
Installation.....	6
Operation	
Manual mode.....	11
Loop mode	12
Product Specifications	13
FAQ.....	14

Introduction

Thank you for choosing ClockCam. ClockCam is designed for users who want to monitor their visitors, strangers, babysitters, and business activities. It includes a wireless wall-clock hidden camera and a wireless receiver. Can be installed in seconds, hassle free of running long video cable. Simply mount the clock at the desired location, connect the power to the clock-camera, to receiver, and then connect the receiver to a monitor for live view, or connect to a recorder for recording. It is a great security product for homes and small businesses.

Note: Please read the entire user's manual before operation.

Applications:

1. Discreetly monitor with fully functional clock design.
2. Monitor childcare, know your children are safe for peace of mind.
3. Monitor your valuables, home, business, or office.
4. Wireless system, no troublesome cables.

Features:

- Do-It-Yourself, easy to setup and use.
- Hidden wireless color camera built-in functional wall-clock.
- No interference from crowded 2.4GHz & 5.8GHz frequencies including Wi-Fi (wireless network) devices.
- Video transmission goes up to 330ft clear line of sight or 100ft indoor.
- Two-channel receiver supports up to 2 wireless cameras (900MHz).
- Battery (AA) operated clock and lasts up to more than 1 year.

Package Contents



Wall-Clock camera
(ClockCam-T)



Wireless receiver
(ClockCam-R)



AV cable
(for receiver)



Warning sticker X2



power adapter X2



Receiver antenna



User manual



Screw

*All the accessories in order to prevail in kind!
(G.W. 3.2 lbs)

Hardware Basic

Receiver:



Loop/Manual switch

Power socket

Audio output

Video output



Antenna

LED channel 2 indicator

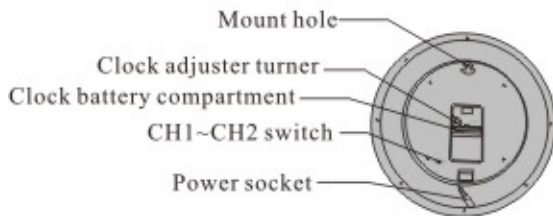
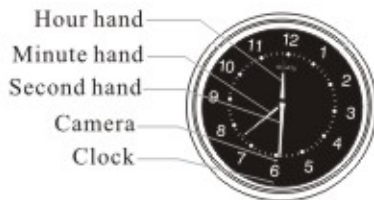
LED channel 1 indicator

Manual switch



Hardware Basic

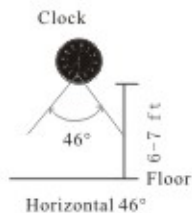
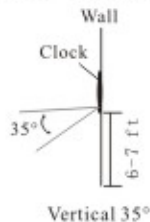
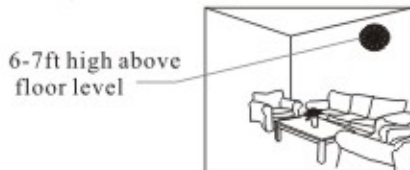
Wall-Clock Camera:



Installation

1. Find a desired location to mount the ClockCam. Recommended to install 6-7ft high above floor level in areas intended for surveillance. For better viewing angle coverage, the hidden camera has a fixed 25 degree downward angle by default.

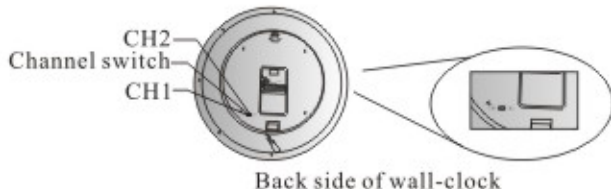
Estimated viewing coverage: Vertical 35° & Horizontal 46° (as shown below)



2. Connect the power adapter jack to the ClockCam power socket and plug the other end into an electrical power outlet.



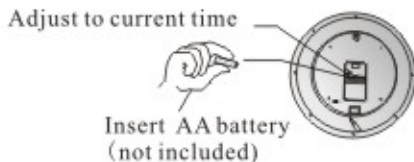
3. Set the channel frequency to match with the receiver channel frequency, the default channel frequency is CH1. The channel switch is located on the back side of the wall-clock camera.



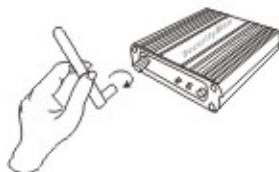
NOTE: If the image is not clear or has line bars, please toggle between CH1 and CH2 to find the best receptions possible. If the image becomes black and white, please power cycle the camera by unplugging the power to the wall-clock camera and then plug them back in. Be sure to match the frequency between the wall-clock camera and the receiver.



4. Insert an AA battery (not included) into the battery compartment located on the back of the wall-clock. Adjust to current time by turning the clock adjuster turner clockwise or counter-clockwise.



5. Connect the antenna to the receiver by turning it clockwise to secure, as illustrated below.



6. Connect the audio/video cable into the video output of the receiver. Connect the other end of the A/V cable to the video input of a monitor/TV; be sure to match the color codes, video (yellow to yellow) and audio (red to red or white), as illustrated below.



NOTE: ClockCam does not support audio. However; the receiver support other SecurityMan 900MHz wireless cameras with built-in microphone.

7. Plug in one end of the power adapter into the receiver and connect the other end into an electrical outlet, as shown below. The red LED indicator light on the receiver will come on.



The indicator is on

8. Turn on the monitor/TV and change to AV or AUX mode, ie. VIDEO1, VIDEO2, LINE1, LINE2.



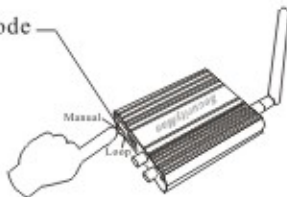
Operation

The default channel frequency for ClockCam is channel 1 for both the wall-clock camera (CH1) and the receiver (CH1). If it is not in default, please set the MANUAL/LOOP switch to MANUAL and then press the SET button until the red LED light is on CH1.

Manual mode:

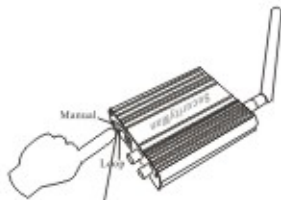
Change the MANUAL/LOOP switch located in the back of the receiver to MANUAL. In MANUAL mode, press the SET button (front of receiver) to toggle between CH1/CH2. If two cameras are in use, please ensure both cameras are set to different channel.

Toggle to Manual mode



Loop mode:

In LOOP mode, the receiver will automatically switches between CH1 and CH2. The dwell time between each camera is fixed at 5 seconds interval and cannot be change. Loop mode is normally used when two cameras are in use or active.



Toggle to Loop mode











The CH1 and CH2 LED
are fixed at 5 seconds interval

The receiver will show the picture of each of the camera every 5 seconds. Two or more receivers may be used to receive the images from the two wireless cameras.

Product Specifications:

Wall-Clock Camera (ClockCam-T)	
Image Sensor	1/4-inch CMOS, Color
Effective Pixels	510×492(NTSC)
Transmission Frequency	FM 906MHz (CH1), 924MHz (CH2)
Clock Type	Quartz wall-clock (durable plastic glass)
Dimension / Shaft length	14.3" (Ø) x 1.75" (D) / 12mm
Operating Temperature	14~122 degree Fahrenheit
Power	Clock: 1.5VDC (AA Battery, not included) Camera: AC100~240V, 6VDC 800mA
Viewing angle	Vertical 35°, Horizontal 46°
Receiver (ClockCam-R)	
Video Input/Output	1 RCA / 1 RCA
Channel Indicator	2 x LEDs (CH1 & CH2)
Antenna Type	SMA (87dBm sensitivity)
Receiving Frequency	ISM 906MHz (CH-1) & 924MHz (CH-2)
Controls	Manual (Ch1 & CH2); Loop (switches every 5 seconds)
Dimensions	4"x3"x1"
Power	AC100~240V, 6VDC 800mA

FAQ

Abnormal Phenomena		Possible Reasons/Solutions
 No image	 No sound	<p>Check whether camera /receiver connected to power supplies, and power on. Make sure that the A/V cable is connected correctly. Check to make sure the TV (output) is in the auxiliary mode. Wall-Clock camera does not have microphone for sound.</p>
 Snowflakes of image	 Noisy	<p>Check if the channel of receiver is corresponding to camera; Check the distance and blocks. Change Wall-Clock camera to CH2. Move receiver around to find the best reception possible.</p>
 Ghost image	 Normal sound	<p>Interfered by other sources; Check the distance and blocks. Change Wall-Clock camera to CH2.</p>
 No color	 Normal sound	<p>Mismatching system of TV (monitor)and cameras, TV may not support NTSC video format.</p>

SecurityMan, Inc.
www.securitymaninc.com