

SecurityMan®



PalmWatch II

**2.4GHz Wireless Color Baby Monitor System
with Night Vision, Audio Detection,
& Camera Rechargeable Battery**

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FCC Information

Notes on FCC's "Consistent Statement of Information" This product meet the requirements specified in Part 15 of FCC Regulation. Operation rests with the following two conditions:

- (1) The equipment should not cause any harmful interference.
- (2) The equipment must receive and process any interference, including any possible interference caused by operation mistakes.

After testing the product, we confirm that the camera complies with the provision for class C digital equipment in the 15th part in FCC regulations; and the receiver complies with the limitations for class B digital equipment in Part 15 of FCC regulation. The product generates, applies and emits radio waves. It might cause harmful interferences to wireless communication if not be installed and used following the description of the manual.

The product may cause interference in residential area, and the customer should take remedies to eliminate the interference on their own costs.

If the product causes any harmful interference to wireless equipment or disturbs the receiving of TV signals (it can be identified by turning on and off the product), you can solve the trouble by following methods:

- Readjust the product or put it in another place.
- Extend the distance between the equipment interfered and the product.
- Refer to dealers or experienced radio electrician for help.

Warranty

SecurityMan warrants that this product will be free from defects in materials and workmanship for period of time 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 not with standing any failure of essential purpose of any limited remedy.

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Notice:

2.4Ghz 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

2.4Ghz 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. The 2.4Ghz wireless camera meets wireless frequency security standards and recommend 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 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 feet 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 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 40°C ($14\text{F} - 104^{\circ}\text{F}$). The relative humidity should remain from 20% to 80%.
- Avoid putting the product in places where change might occur 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 camera near aggressive chemicals
- Do not place product near any magnetic objects

Maintenance

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 stricken the product.

Do not use this camera 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.

Please obey the local government's environment protection policy

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Introduction

Thank you for purchasing the PalmWatch II. The PalmWatch II consists of a wireless palm LCD monitor and a wireless color day & night BabyCam. PalmWatch II is an ideal product for monitoring a baby, an elder or a patient.

Features:

- 2.4GHz wireless technology
- Supports up to 3 cameras
- LCD display can work with 3 modes: Scan, Auto & Manual
- Adjustable dwell time between cameras in auto mode
- Tilt LCD screen panel for better view angle
- The Brightness, Color, Contrast, Alarm volume & Audio volume can be adjusted
- Output port connecting to TV/VCR/DVR
- Plug & play installation
- Both Palm LCD monitor & BabyCam can be wall or table mounted
- Up to 300ft video transmission
(up to 100ft for indoor and up to 300ft for clear line of sight.)

Package contents:

- 1 x Wireless Color Camera (SM-200T)
- 1 x 1.5" wireless color LCD Monitor (SM-150LCD)
- 1 x Rechargeable Battery Pack (BP200) (for Camera)
- 1 x 9V AC Adapter (for Camera)
- 1 x 6V AC Adapter (for Monitor)
- 1 x Mounting Bracket (for Monitor)
- Mounting Hardware

Things to consider before installation

For best performance, follow these simple guidelines:

- The camera should be aimed accordingly to optimize viewing area.
- For best transmission, avoid installations where there are thick walls or major obstructions between the camera and receiver.

Installation

Setting up the camera (Transmitter)

1. Unpack the camera
2. Decide on wall or desk mounting the camera. (For wall mounting instruction, please refer to “Drilling Template for Wall Mounting Camera(s)” section)

Note: The Rechargeable Battery Pack should not be used if you decide to wall mount the camera.



Desk/Table top

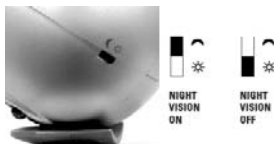


Wall Mounted

- 3) Rotate the camera to ideal or required position.
- 4) If using the 9V camera AC adapter, connect power jack and make sure the camera is positioned no more than 5.5 feet from the AC power outlet.

5) To get the best performance from the camera, please follow the guidelines below:

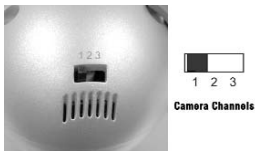
- i) For best performance, mount the camera between 12ft and 16ft above the detected area.
- ii) Built-in IR sources (8 LEDs) provide night vision, for day use please turn off the LEDs by sliding the NIGHT VISION SWITCH (on the right side of camera head) to the OFF position.



- iii) To avoid problems with false sound trigger, adjust sound trigger level by tuning the TRIGGER LEVEL TUNER (on the right side of camera head) accordingly.



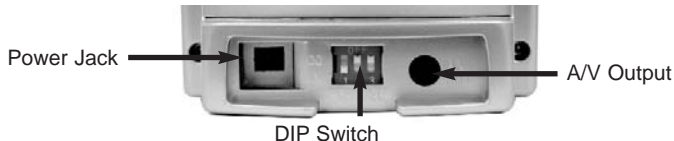
- 6) Select the channel on the SLIDE SWITCH (on back of the camera head) by sliding switch to position 1, 2 or 3. Camera is preset to channel 1 (default).



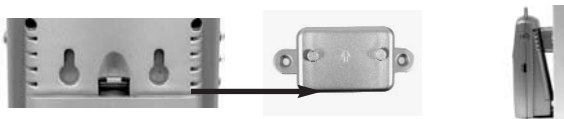
- 7) The camera (transmitter) installation is now completed.

Setting up the LCD Monitor (Receiver)

- 1) Plug the palm monitor AC adapter into the 6V DC power jack on the back of the receiver. You can also use 4 AA batteries to operate the monitor for temporary use.



- 2) Turn on the monitor by pressing the power button.
- 3) If connecting to TV/VCR/DVR, connect one end of the enclosed A/V cable to the back of the palm monitor, the other end to your TV/VCR/DVR's A/V inputs, the yellow plug to the VIDEO IN jack and the white plug to the AUDIO IN jack.
- 4) If wall mounting, install the bracket onto the wall, and mount the palm monitor to the bracket.



- 5) The monitor (receiver) setting is now completed.

Optimizing the Palmwatch II

The 2.4GHz video signals pass easily through your home's interior walls, but the signal may be reflected by power wire or plumbing inside the wall. The most common source of interference are microwave ovens. Try to avoid mounting the palm monitor near a microwave oven or other source of RF interference such as cordless phones, and wireless routers in the 2.4Ghz frequency band.

Multi-Camera Operation

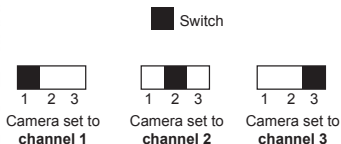
The PalmWatch II is designed to support up to 3 cameras. Additional cameras are sold separately. Please check for product availability.

Important:

When using more than one camera, make sure each camera is assigned to specific channel by adjusting the corresponding SLIDE SWITCH to position 1, 2, or 3.



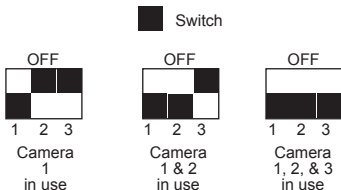
Back view of the camera

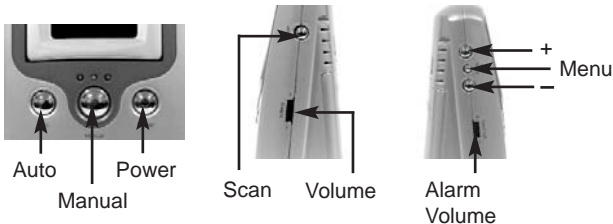


The DIP SWITCH located on the back of the palm monitor should be adjusted to correspond to the channel in use.



Back view of the palm monitor





POWER

- Press to turn the palm monitor **ON/OFF**.
- When using the battery source on the palm monitor, the built-in **LED** of the **POWER** button will flash to indicate low battery status between 2.5 to 3.5 hours after initial use.

AUTO

Pressing the **AUTO** button places the system in auto mode. In this mode, the system automatically rotates through all active cameras. When sound is above the pre-set sound trigger level of the baby camera, the palm monitor will display the picture from the camera for a few seconds, and the beeper alarm will sound. To avoid searching for channels that do not have cameras assigned, set the **DIP SWITCH** (located on the back panel of the palm monitor) for those corresponding channels up to the **OFF** position.

The dwell time (time taken to switch between cameras) is preset to 2 seconds and can be adjusted between 2~30 seconds. To adjust the dwell time, press and hold both the **AUTO** & **MANUAL** buttons simultaneously. Each flash of the LED increases the dwell time by one second.

MANUAL

To select a specific camera on the palm monitor, press the **MANUAL** button. The palm monitor will switch to a different camera each time the **MANUAL** button is pressed. To avoid searching for channels that do not have cameras assigned, set the **DIP SWITCH** (located on the back panel of the palm monitor for those corresponding channels up to the **OFF** position.

SCAN

Pressing the **SCAN** button places the system in scan mode. The palm monitor screen blanks into standby mode. The system then continuously scans for active cameras. If sound is detected above the pre-set sound trigger level of the baby camera, the palm monitor displays the camera picture and the beeper alarm will sound. Two minutes after the last detection, the screen returns to standby/scan mode and the palm monitor resumes scanning. Pressing the **MANUAL** or **AUTO** button will cancel this mode.

VOLUME

The audio volume of the palm monitor can be adjusted by tuning the **VOLUME** tuner on the right side of the palm monitor.

ALARM VOLUME

The alarm volume of the palm monitor can be adjusted by tuning the **ALARM VOLUME** tuner on the left side of the palm monitor.

MENU

Press the MENU button on the left side of the palm monitor and observe the LED status:

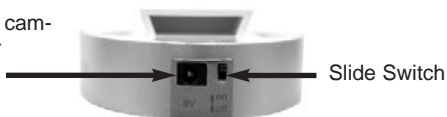
- LED on, adjust BRIGHTNESS +/-
- LED flashing, adjust COLOR +/-
- LED off, adjust CONTRAST +/-

Rechargeable Battery Pack for camera (BP200)

Note: The battery pack BP200 must be fully charged for 12 hours before independent use.

Plug the PalmWatch II camera AC adapter (9V 400mA) connector into the DC jack at the end of the Battery Pack (9V 400mA). Plug the adapter itself into an electrical outlet. Move the Slide Switch on, a red LED on the base of the camera indicates that the camera is on.

Power Jack for camera AC Adapter
(9V 400mA)

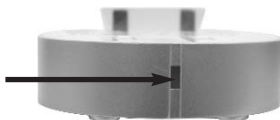


Slide Switch

LED indicator on Battery Pack

A pink LED will appear on the Battery Pack to indicate charging. A fully charged Battery Pack will produce a green LED.

LED indicator



After the initial charge, it is not necessary to leave the camera AC adapter (9V 400mA) plugged in the Battery Pack. You may unplug the adapter from the DC jack and reconnect it when necessary.

Installing the Rechargeable Battery Pack to camera



Connect to Power Supply

You can operate the camera with the rechargeable Battery Pack connected to it.

Power Jack for camera AC adapter (9V 400mA) on rechargeable Battery Pack



You can also operate the camera without the Battery Pack.

Power Jack for camera AC adapter (9V 400mA) on camera



Troubleshooting

If you are having trouble operating this product, please follow the guide below:

Issues

No Camera Picture

Solution

- 1) Check all connectors. Make sure camera(s) and palm monitor are switched ON.
- 2) Ensure camera(s) & palm monitor are set to correct channel(s).
- 3) Make sure camera is within range of palm monitor.

Blank Monitor

- 1) Make sure the palm monitor is switched ON.
- 2) If using AC adapter, make sure it is plugged into wall outlet
- 3) Make sure all batteries are inserted with correct polarity.

Interference on Camera Picture

- 1) Make sure each camera (transmitter) is within the range, and that no large obstructions are blocking the signal.
- 2) Try repositioning both the camera and the palm monitor to improve the reception quality.
- 3) Reposition other nearby equipment transmitting on 2.4GHz frequency, ie. wireless router, wireless phone, etc..

Audio problems

- 1) Ensure the volume is turned up to sufficient level on the palm monitor.
- 2) Make sure the sound is within the camera microphone range.
- 3) If the unit emits a loud wailing sound (feed back) try moving the camera away from the palm monitor, or place the palm monitor in a different location.

Specification

Camera (SM-200T)

| | |
|---------------------|-------------------------|
| TV System | NTSC (color) standard |
| Integrated Lens | 5.6mm, fixed focus |
| Resolution | 360 horizontal TV lines |
| Signal/Noise Ratio | 48dB |
| Image Sensor | 1/3" CMOS |
| Min. illumination | 0.5 lux |
| Current Consumption | 120mA~300mA |
| Frequency Range | 2,414, 2,432 & 2,468MHz |
| Dimension (WxHxD) | 3.75" x 4.25" x 2.45" |

Monitor (Receiver) (SM-150LCD)

| | |
|---------------------|------------------------------------|
| Frequency Range | 2,414, 2,432 & 2,468MHz |
| Signal Source | 2.4GHz wireless A/V, sound trigger |
| Current Consumption | 320mA |
| Dimension (WxHxD) | 2.92" x 4.67" x 1.84" |

Rechargeable Battery Pack (BP200)

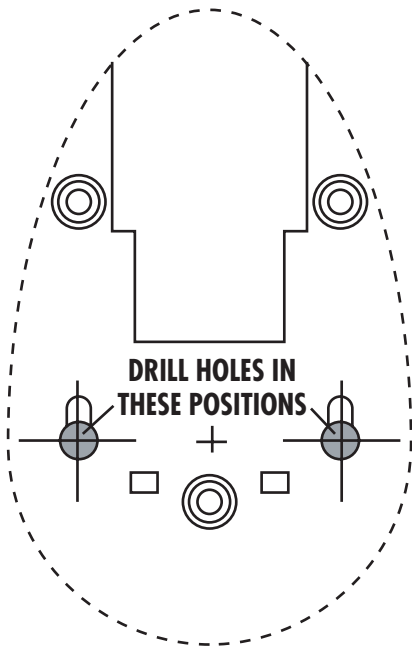
| | |
|-----------------------|---|
| Voltage | 6V DC |
| Charge Capacity | 650mAh |
| | Use camera (transmitter) AC adapter to charge |
| Camera Adapter Output | 9V DC 400mA |

Caution: Not intended for use in a wet location. Exhausted batteries should be disposed of properly.

Drilling Template for Wall Mounting Camera(s)

To wall mount camera(s), drill two holes using a 1/4" drill bit and the template below. (Please keep a copy of this template for future reference)

Insert supplied wall anchors into holes and secure camera to wall with supplied screws.



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