

Swann Technical Support

All Countries E-mail: tech@swann.com.au

Telephone Helpdesk

UNITED STATES toll free

877-274-3695

(Sun-Thurs, 2pm-10.30pm PST)

800-627-2799

(Mon-Fri, 9am-1pm PST)

USA Exchange & Repairs

562-777-2551

(Mon-Fri, 9am-5pm PST)

AUSTRALIA toll free

1300 13 8324

(Mon-Fri, 9am-5.30pm Aus EST)

International

+61 3 8412 4610

(Mon-Fri, 9am-5.30pm Aus EST)

See <http://www.worldtimeserver.com> for information on different time zones and the time in Melbourne Australia compare to your local time.

Warranty Information

Swann Communications warrants this product against defects in workmanship and material for a period of one (1) year from its original purchase date. You must present your receipt as proof of date of purchase for warranty validation. Any unit which proves defective during the stated period will be repaired without charge for parts or labour or replaced at the sole discretion of Swann. The repair or replacement will be warranted for either ninety days or the remainder of the original one year warranty period, whichever is longer. The end user is responsible for all freight charges incurred to send the product to Swann's repair centres. The end user is responsible for all shipping costs incurred when shipping from and to any country other than the country of origin. The warranty does not cover any incidental, accidental or consequential damages arising from the use of or the inability to use this product. Any costs associated with the fitting or removal of this product by a tradesman or other person or any other costs associated with its use are the responsibility of the end user. This warranty applies to the original purchaser of the product only and is not transferrable to any third party.

Unauthorised end user or third party modifications to any component or evidence of misuse or abuse of the device will render all warranties void.



www.swannsecurity.com



Wireless Eagle-Eye Miniature Security Camera with Auto Switching Receiver



Swann Help Desk
Has the answers



**If this device does not work when you first plug it in,
do not take it back to the store.**

- ✓ Contact the Swann Helpdesk using our fast e-mail service tech@swann.com.au or call us on one of the Toll-Free numbers shown on the back cover of this booklet.
- ✓ Most problems can be quickly and easily fixed with a simple e-mail or a quick chat with one of our friendly technical staff. (Toll-Free available in the US and Australia only)

Note: Wireless Networks (WiFi) may interfere with and/or experience interference caused by the transmitter in this unit. Changing the receiver to another channel/frequency or setting the Wireless Network (i.e. Wireless Access Point) to a frequency further away from the camera's set frequency can alleviate this problem. Consult the documentation of your Wireless LAN device for information on how to change the transmission frequency. These cameras work with most wireless camera receivers that support 2414MHz, 2432MHz,

Installation Guide

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Introduction

The Swann Eagle-Eye Camera allows you to transmit pictures with ease. As the radio waves it uses have a frequency of 2.4GHz, they can be received within a radius of up to 328ft/100m in open line of sight. The Eagle-Eye Camera comes with 2 power sources (9V battery adapter and mains adapter) so that you have the option of using different power methods for different locations and conditions, to ensure that you have the best options for your situation.

Please note: The Swann Eagle-Eye Camera broadcasts video in the public domain. The video signal is not encrypted and could potentially be viewed by anyone with a similar 2.4GHz receiver unit. Please keep this in mind when positioning and using any wireless camera equipment.

Eagle-Eye Camera comes with...

- 1 x Eagle-Eye Color Camera / 2.4GHz Transmitter
- 1 x 2.4GHz Receiver
- 1 x Antenna for 2.4GHz Receiver
- 1 x 9V Battery Snap for Transmitter/Camera (battery not included)
- 2 x Mains Power Adaptor (8V for use with Camera and Receiver)
- A/V socket to RCA adapter Cable
- Metal Camera stand
- This Instruction Sheet

If any of these items are missing, please contact your retailer.

FCC NOTICE

This device complies with Part 15 of FCC Rules.

Operation is subject to the following 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.

Technical Specifications

CMOS Color Camera

Sensor:	1/3"(8.5mm) Color CMOS	*The Eagle-Eye system operates on the following channels and frequencies:
Horizontal Resolution:	380 TV lines	Channel 1 ~ 2414MHz
Auto Electronic Exposure:	1/60 - 1/15000 sec.	Channel 2 ~ 2432MHz
Minimum Illumination:	3 Lux@ f1.2	Channel 3 ~ 2450MHz
Signal to Noise Ratio:	>48dB	Channel 4 ~ 2468MHz
Board Lens:	7/32" ~ 5.6mm	
View Angle:	56 degrees	
Size:	5/8" x 23/32" ~ 16mm x 18mm, board lens	
Fixed Video System:	NTSC 60Hz (USA and Canada) - PAL 50Hz (Australia, UK/Europe)	
Automatic Exposure / Gain / White balance.		

2.4GHz Transmitter

Frequency:	4 Channels in 2.4 GHz frequency band*
RF Output Power:	CE, FCC and C-tick compliant
Operating Power:	8V DC
Power Consumption:	100mA
Size:	7/8" x 7/8" x 1" / 22 x 24 x 27 mm
Antenna:	Fixed Omni-directional
Transmitting Range:	Up to 328ft / 100M line of sight
Weight:	3/4oz / 20 grams
Operating Temperature:	32° ~ 122°F / 0° ~ 50°C

2.4GHz Receiver

Frequency:	4 Channels in 2.4 GHz frequency band*
Video input/output:	1V p-p @ 75 ohm
Audio input / output:	1Vp-p @ 600 ohm
Antenna:	50ohm SMA
Operating Power:	8V DC
Power Consumption:	150mA
Size:	3 1/2" x 2 3/4" x 5/8"
	92 x 71 x 17mm

FCC Notice

We, Swann Communications of 10612 Shoemaker Avenue, Bldg A, Santa Fe Springs, CA 90670 USA, declare under our sole responsibility that the product:

SW232-WEE

This product meets the requirement 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 it complies with the provision for class C digital equipment in the 15th part in FCC regulation; and the receiver complies with the limitation 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 interference in residential area, and the customer should take remedies to eliminate the interference at their own costs. If the product causes any harmful interference to wireless equipment of 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:

- (1) Re-adjust the product or put it in another place;
- (2) Extend the distance between the equipment interfered and the product; and
- (3) Refer to dealers or experienced radio electrician for help

CE Notice

This product complies with standards including Low Voltage Device Directive 73/23/EEC; EMC Directive 89/336/EEC and R&TTE Directive 1999/5/EC. It passed the subject tests by authority concerned and it authorized to bear CE mark.

Troubleshooting your Eagle-Eye Camera

Poor Picture: Realign antennas until image quality improves, slightly adjust the position of the Camera or Receiver. Change the location of the Camera, or use a different height or angle to see if the image improves. In some cases interference may be caused by another device on a similar frequency to the channel you are using.

Lines only - no clear picture: Check to confirm there is no microwave oven or other 2.4GHz equipment operating close by ie; Cordless Telephones, Wireless Baby Monitors, Wireless LAN equipment etc . Make sure the Receiver is on the same channel as the camera.

Picture ghosting or interference: Some home appliances such as Wireless LANs, 2.4GHz portable telephones and Microwave ovens operate on or near the 2.4GHz frequency. If you receive interference from such an appliance, try moving the Camera or Receiver to location further away from the appliance or in the event of interference from a Wireless LAN device, try changing the Wireless LAN to a different channel to improve the signal quality.


No picture: check the receiver to confirm it is turned ON and make sure the AV connection of the Receiver is not plugged into the Video Out socket of your TV. Make sure the Receiver is on the correct channel. Check to ensure the camera is plugged in and has power. Check that the channel on the receiver is the set to the same channel as the camera is set to.

Red haze over picture: In some cases where the sun shines into the front of the camera a faint red glow can be seen. Move the camera to a shaded location, or fit a hood to stop sunlight entering the camera lens directly.

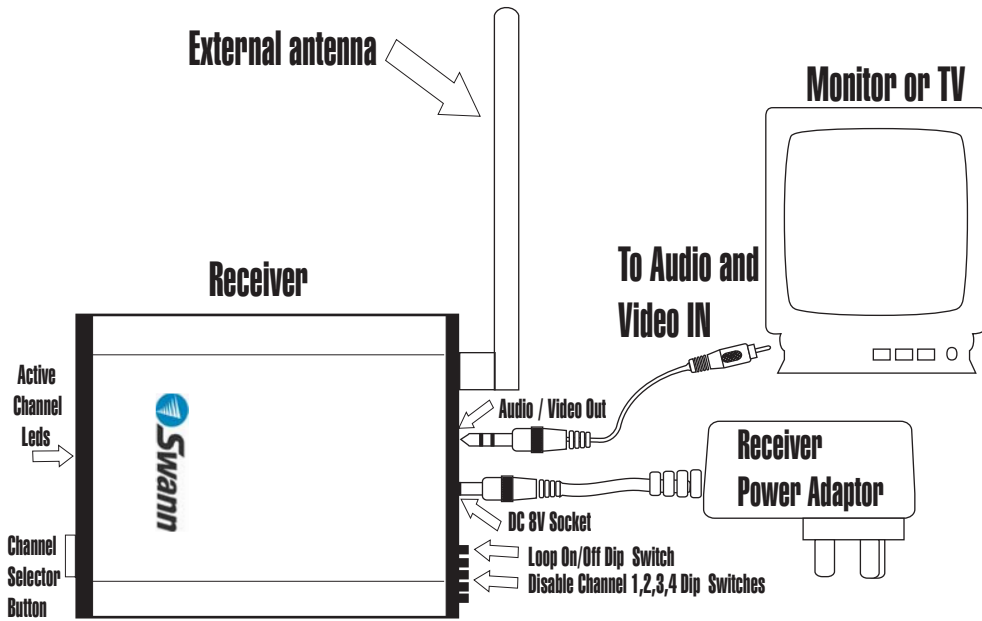
Foreground is dark while background is too bright: If the camera is looking from a dark area towards a light area in some cases the automatic exposure can find it difficult to balance the image correctly. Change the location of the camera so that the point of greatest interest has the largest area of the image. If you want to see the bright area, move the camera so that almost all of the screen shows this area. If you want to see the darker area, move the camera so that most of the image shows this area.

IMPORTANT: In accordance with privacy regulations in some countries this camera does not have any audio transmission capability where this is prohibited by law. Please consult your privacy regulations, or contact the relevant government department for more information.

Installing Eagle-Eye Camera

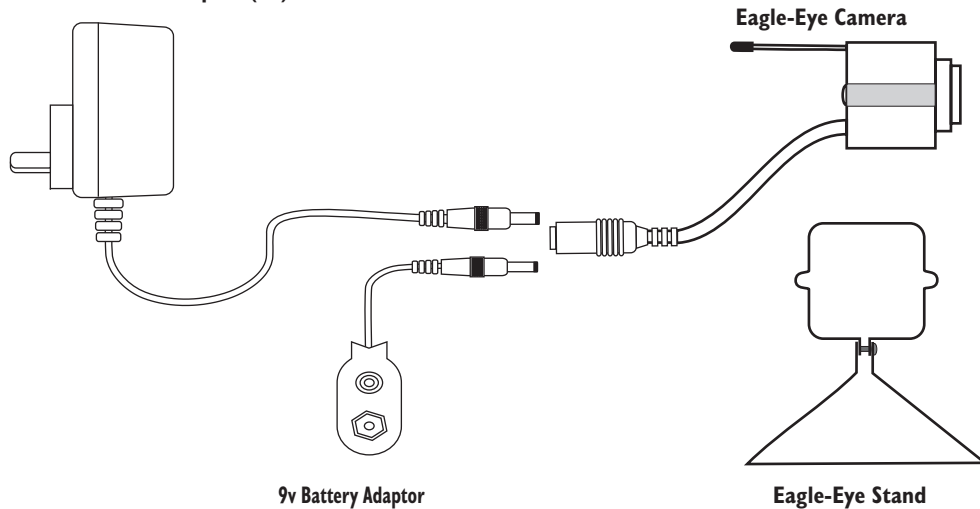
- 1) Connect both the Eagle-Eye Camera and the Receiver to their respective power adapters.
- 2) Connect the Receiver to the AV input of the equipment you wish to view the camera on (Security Monitor, TV, VCR etc) using the supplied AV to RCA cable. These sockets are marked Video IN or AV IN and are usually yellow in color.
- 3) Change your Security Monitor, TV or VCR to the AV input channel. There are various methods for doing this that vary from one type to another. If you have an **AV TV** with RCA sockets you will need to switch the **TV** to the **AV** channel to view the camera. To connect the receiver to your **VCR**, you will need to turn the **VCR** to the **AV Input** selection and turn your **TV** onto the channel you would normally use to view a tape or movie on your **VCR**. The AV channel on your TV or VCR may be activated by a button on your remote that is marked with this symbol , **L1** or **L2** or possibly **AV1** or **AV2**. Please consult the manual of your particular TV or VCR for further information on using their AV inputs.
- 4) After connecting both the Eagle-Eye Camera and the Receiver make sure the channel 2 dip switch on the receiver is moved down to the ON position. Press the **SEL** button on the receiver until the LED for CH2 is lit. If the channel LEDs flash and the receiver scans through all 4 channels, move the Loop mode dip switch **L** on the back of the receiver up into the OFF position.
- 5) If required, place the Eagle-Eye Camera into the Camera Stand by first placing the cable through the bracket and then gently push the camera in until it is correctly seated. Tighten the screw on the stand until firm.
- 6) Align the antenna of the receiver toward the antenna of the Eagle-Eye Camera. The antenna can be swivelled to face in the appropriate direction by loosening the nut connecting it to the antenna socket. Once the antenna is correctly positioned, finger tighten the nut to lock the antenna in place.

Receiver Features



Camera Features

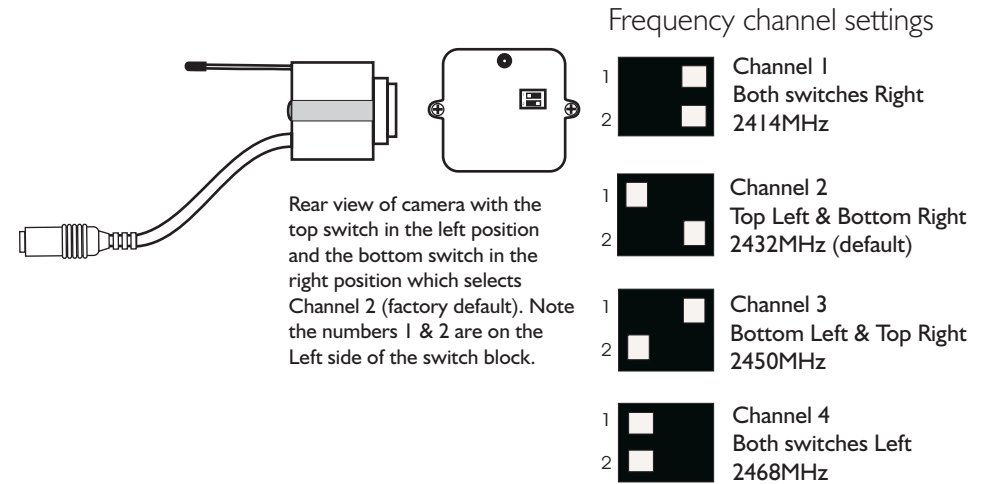
Camera Power Adaptor (8V)



IMPORTANT: Due to the power consumption requirements of this product, we highly recommend the use of a 9 volt battery only for short term portable use.

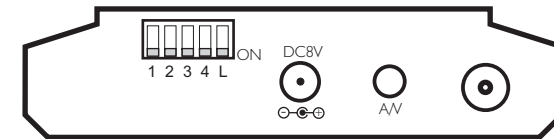
Setting the Channel on the Camera and Receiver

Camera Channel Settings



Changing these switch settings changes the frequency that the camera transmits on. Once you have set the channel on the camera, select the same channel on your receiver. If you experience interference try different channels. Make sure multiple cameras are set to different frequencies so you can use them on the one receiver.

Receiver Channel Settings



On the rear of the receiver unit there are 5 DIP switches. The switch on the right side labelled **L** switches the receiver's **Loop Mode** ON and OFF. When this switch is in the ON position the receiver will automatically switch through all of the enabled channels. When this switch is pushed up into the OFF position, the channels can be selected manually by pushing the Channel Select button on the front of the receiver. Pushing any of the switches numbered 1 to 4 to the UP position turns that channel for the receiver OFF. Pushing any of the channel switches to ON will allow the channel to be scanned while the receiver is in **Loop Mode**.

Once you have set the channel on the camera, select the same channel on your receiver and ensure the DIP switch is in the ON position. If you experience interference try different channels. If you purchase additional cameras, make sure they are set to different channels and that the channel you use for the additional camera is enabled using the correct DIP switch.