

plug&playwireless

Advanced Digital Wireless Camera and Receiver





Operating Instructions

sw344-ydw www.swannsecurity.com

MYDW290410E

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IMPORTANT

Before connecting power to the camera or receiver, ensure that the antennas are properly attached to both devices. Operating the ADW-200 without the antennas in place can cause damage to the unit, and may void your warranty.

FCC Verification:

NOTE: This equipment has been tested and found to comply with the limits for 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 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 the receiver

 \cdot 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

IMPORTANT NOTE: Prohibition against eavesdropping

Except for the operations of law enforcement officers conducted under lawful authority, no person shall use, either directly or indirectly, a device operated pursuant to the provisions of this Part for the purpose of overhearing or recording the private conversations of others unless such use is authorized by all of the parties engaging in the conversation.

WARNING: Modifications not approved by the party responsible for compliance could void user's authority to operate the equipment.

IMPORTANT SAFETY INSTRUCTIONS:

 \cdot Make sure product is fixed correctly and stable if fastened in place

 \cdot Do not operate if wires and terminals are exposed

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Package Contents

- ADW-200 Camera with Stand
- ADW-200 Receiver
- 2 X Antennas
- **5**V Power Adapter for Camera
- 5V Power Adapter for Receiver

- A/V Cable
- Operating Instructions
- Security Stickers
- Mounting Hardware



A Digital Wireless Monitoring Solution

The ADW-200 is a high quality yet cost effective digital wireless monitoring solution, ideal for home or business use. Combining a robust and interference-free wireless transmitter and receiver with a color camera with active infrared night vision, the ADW-200 can be used as a complete monitoring solution or as a part of a larger security solution, perhaps integrated with a DVR and alarm system.

Interference-free Digital Signal Transmission

Digital wireless technology is a huge step forward in wireless systems, which do not suffer from interference in the same way as analog wireless systems.

This means that the ADW-200 system will deliver a picture from your cameras which is free from distortion or noise. This is particularly useful in locations which have a lot of other wireless systems operating.

Quick and Easy Setup

Get set up with the click of a couple of buttons. If you know how to plug in a DVD player, you should have no problems getting the ADW-200 set up. However, this is not to say that the ADW-200 has limited applications - you can connect it to a TV, DVR or even directly to a PC.

Direct USB Connection to a PC

The ADW-200 receiver has a USB port which can easily be connected to a computer. You can use the ADW-200 as a webcam, or use compatible recording software to create a PC-based video recording setup.

Important Note - Range and Reception

The ADW-200 uses digital wireless technology which means that it doesn't suffer from interference in the same way as an analog wireless system. It is possible, however, that a signal will "fade" before reaching the receiver. This typically happens when the receiver is out of range of the camera, or there are significant obstacles between the camera and receiver.

The range of the camera's signal is approximately 20m/65ft, under typical conditions. You should get a picture at this range if there are no significant obstacles between camera and receiver, and there are no other wireless systems nearby operating on a similar frequency. For maximum transmission range, the receiver should be in line of sight of the camera.

A thick brick or concrete wall will dramatically reduce the range of the signal, often by half or more. If you're using the ADW-200 system in a cluttered environment with other wireless devices nearby, you may find that the reliable range of transmission is significantly reduced. In extreme cases, a wired system may be the only practicable solution.

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Layout



When Placing Multiple Cameras

When two or more digital wireless cameras are placed too close together, the receiver can have difficulty distinguishing between the two signals, for much the same reason as it would be difficult to listen to two people standing side by side and both talking at the same volume.

Keep your cameras as far apart as possible – ideally, at least 6 ~ 9 feet (approximately 2 ~ 3 meters).

The result of two cameras too near one another will be a reduction in quality of your picture, with the possibility of a slight pause when changing channels.

If you are experiencing these problems and simply cannot move cameras any father apart, then try orienting the antennas away from one another. This will not have as dramatic an effect as actually moving the camera, but often can provide somewhat of an improvement.



Additionally, try to keep the receiver away from magnetic fields (particularly devices such as microwaves or other wireless devices) or environments which would block wireless signals (such as thick concrete or brick walls, or areas which have large amounts of metal).

Connection Guide



Connecting the Camera

- 1. Attach the antenna to the rear of the camera.
- 2. Connect the supplied power adapter (5V) to the power input on the camera.
- 3. Plug the power adapter in to a wall socket.

Connecting the Receiver

- 4. Attach the antenna to the receiver.
- 5. Connect the supplied power adaptor to the power input on the rear of the receiver.
- 6. Connect the supplied A/V cable to the A/V OUT port on the rear of the receiver (the plug looks like a miniature headphone jack).

Connecting to a VCR / DVD Recorder

- 7. Connect the yellow VIDEO OUT plug to the VIDEO IN port (usually also yellow) on your VCR/DVD recorder.
- 8. If you want to monitor/record audio, then plug the white AUDIO OUT plug into the AUDIO IN port (also typically white) on the VCR/DVD recorder.
- 9. Connect the Video/Audio OUT of the VCR/DVD recorder to a TV as detailed below.

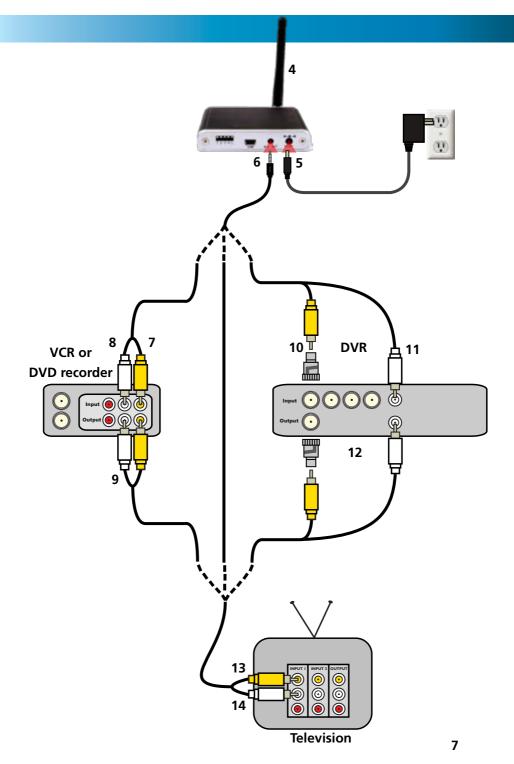
Connecting to a DVR

- 10. Attach the yellow VIDEO OUT plug to one of the INPUTS on the rear of the DVR. If your DVR uses BNC connectors, you'll need to use a BNC/RCA adaptor (as pictured in the diagram). Most DVRs use BNC plugs.
- 11. If DVR supports audio, then you can plug the white AUDIO OUT plug to an AUDIO INPUT on the rear of the DVR. These typically use RCA plugs and won't need an adaptor but exceptions to this rule exist.
- 12. Connect the AUDIO and VIDEO OUTPUTS to your TV. Consult your DVR's manual for more information regarding connecting a monitor to your DVR.

Connecting directly to a TV

- 13. Connect the yellow VIDEO OUT plug to a VIDEO IN port (usually yellow as well) on the TV you want to use. Avoid component inputs (which are color coded red, green and blue) as these use a very different type of video signal.
- 14. If you want to monitor audio, the connect the white AUDIO OUT plug to an AUDIO INPUT on the TV.

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Activating Channels & Loop Mode

The ADW-200 receiver can potentially support up to four cameras. It cannot display all of these at a time, however. Rather, you can use Loop Mode, which will sequentially display images from one camera at a time. As you can have between one and four cameras paired with the receiver, you'll need to set how many channels are active, and which channels they are.

Activate Channels

Located on the rear of the receiver you'll find a series of DIP switches. These are labelled from 1 to 4, with a fifth switch named "L".



The switches $1 \sim 4$ activate each channel. A channel is ON when the switch is in the downwards position, as indicated in the diagram. Channels which are activated in this way can have cameras paired to them, and will be shown in both manual channel-changing mode - whether or not a camera has been paired to them.

The switch marked "L" toggles loop mode on or off.

Loop Mode

Whilst the L switch is in the downward position, the receiver will automatically cycle through all active channels, pausing for approximately five seconds on each. All active channels will be displayed, regardless of whether a camera is paired with them or not.

Important Note about Loop Mode and Motion Detection

The way that most DVRs (and other motion sensitive recorders) detect motion is incompatible with using Loop Mode on the ADW-200 receiver. Most DVRs detect motion by counting how many pixels (the little dots which make up an image) change between frames (the smallest "chunks" of video data, each one a fraction of a second in length).

As a result, many DVR's motion detection function will be triggered each time the receiver changes the channel it is monitoring. Thus, we recommend not using Loop Mode when connecting the ADW-200 to a DVR. For the best results, you'll need a separate receiver for each camera, each receiver connected to a separate input channel on your DVR.

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Pairing

Each camera you use will need to be paired with one channel on the receiver.

A camera can only be paired to one channel at a time, and one channel can only have one camera paired with it. Thus, pairing a channel to a camera will replace any camera previously paired with it.

To pair a camera:

The Pairing Button

- Activate the channel you want to pair a camera to, as described on page 8.
- Set the receiver to the channel you want to pair a camera to.
- Press and hold the CH button until the LED on the front of the receiver begins to flash rapidly.
- Quickly press the pairing button on the camera you want to pair to this channel.

The red LEDs on the front of the receiver will let you know which channel you have selected, what state that channel is in. Channels which are turned off will not be selectable, and the LED will stay off.

- **Always On:** The channel in question is selected, and has an active camera paired with it.
- **Flashing Slowly:** The channel is selected but cannot detect a camera which has been paired with it. This could happen if you've re-paired the camera to a different channel, or you've activated a channel without pairing a camera to it.
- Flashing Quickly: The channel is in pairing mode, awaiting the pairing signal from a camera.

Connecting to a Computer via USB

The ADW-200 receiver has a USB port which, when connected to a computer, allows ADW-200 to output video like a standard USB webcam. Compatible operating systems will automatically detect the ADW-200 and install the appropriate device drivers.

You can access images coming from the ADW-200 from any program or application which supports webcams, as well as some other video capture programs.

Supported Operating Systems

Microsoft Windows XP[®], Microsoft Windows Vista[®], Microsoft Windows 7[®]

Windows is a registered trademark of Microsoft Coroporation in the United States and other countries.

Troubleshooting Guide

Problem: I'm only see a blank screen where I want to see my images. **Solutions:**

- 1. Make sure that both the camera and the receiver are receiving power from their supplied power adapters.
- 2. Ensure that the camera is properly paired with the receiver by following the instructions on page 9.
- 3. Check that the channel you are displaying is the one paired with the camera. Try turning other channels off.
- 4. If all else fails, try moving the camera closer to the receiver, and be sure there are no obstacles (such as thick walls or metal sheets) in between the camera and the receiver blocking the signal.

Problem: When I view the footage from the camera at night, I see a bright white spot and no image.

Solution: Having the camera looking out a window is problematic, as the glass will reflect the infrared beams from the LEDs, over-exposing your image. Move the camera so that there are no barriers (even transparent barriers such as glass) between the camera and what you want to see. Also, make sure there are no objects within 3'/1m of the lens, as these can reflect the infrared beams as well.

Problem: I can't hear any sound on my TV.

Solution: Check the connections between the receiver, recording device (if applicable) and the TV, specifically the 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 record anything in front of it that it sufficiently lit, however a microphone will only record sound within a few feet (unless the sound is very loud).

Problem: The image on my TV appears to be distorted.

Solution: Check the PAL/NTSC settings on your television are correct for your region (NTSC for USA and Canada, PAL for Australia and Western Europe). If this does not fix the problem, check the connections between the receiver and your screen. If you are using a long RCA cable (anything over 6'/2m) try using a shorter one, particularly if there are other electrical devices located close to the TV and receiver.

Problem: At night, the camera can only see 26'/8m.

Solution: This is not a malfunction – this is the range of the infrared beam that the camera uses to see at night. Move the camera closer to what you wish to view. Alternately, you could purchase and install a sensor floodlight, which are available at most good hardware stores.

Technical Specifications

Image Sensor Video Quality Number of Effective Pixels Minimum Illumination Day/Night Mode White Balance Signal / Noise Ratio Electronic Shutter Gain Control Backlight Compensation Wide Dynamic Range Lens Viewing Angle

Microphone Audio Range

Night Vision Distance IR Cut Filter Number of Infra-Red LEDs Infra-Red LED Life

Indoor / Outdoor Operating Power Operating Temperature Body Construction Dimensions - Camera & Stand Weight – Camera & Stand Dimensions - Receiver Weight - Receiver

Digital or Analog Max. Transmission Range Typical Range Frequency Transmission Channels Battery Power Option

Video

1/4" CMOS 380 TV Lines VGA (640 x 480), QVGA (320 x 240) 0 Lux (IR On) Color during day / switches to B&W at night Automatic < 48dB 1/60 - 1/15, 000 NTSC, 1/50 - 15, 000 PAL Automatic Yes No 6mm 53 degrees

Audio

Yes 9ft / 3m

Night Vision

Up to 26ft / 8m No 27 10, 000 hours

General

Both (receiver indoor only) DC 5V -4°F ~ 122°F / -20°C ~ 50°C Aluminium 5.1" x 3.7" x 2.4" / 130mm x 95mm x 60mm 15oz / 415g 0.6" x 3.1" x 2.6" / 15mm x 80mm x 65mm 2.6oz / 75g

Wireless

Digital Up to 165ft / 50m 65ft / 20m 2.4 GHz FHSS (Frequency Hopping Spread Spectrum) 4 No

Helpdesk / Technical Support Details

Swann Technical Support

All Countries E-mail: tech@swannsecurity.com Telephone Helpdesk

USA toll free 1-800-627-2799 (Su, 2pm-10pm US PT) (M-Th, 6am-10pm US PT) (F 6am-2pm US PT) USA Exchange & Repairs 1-800-627-2799 (Option I) (M-F, 9am-5pm US PT) AUSTRALIA toll free 1300 138 324 (M 9am-5pm AUS ET) (Tu-F 1am-5pm AUS ET) (Sa 1am-9am AUS ET) NEW ZEALAND toll free 0800 479 266 UK 0203 027 0979

See http://www.worldtimeserver.com for information on time zones and the current time in Melbourne, Australia compared to your local time.

Warranty Information

Swann Communications USA Inc. 12636 Clark Street Santa Fe Springs CA 90670 USA

Swann Communications Unit 13, 331 Ingles Street, Port Melbourne Vic 3207 Swann Communications LTD. Stag Gates House 63/64 The Avenue SO171XS United Kingdom

Swann Communications warrants this product against defects in workmanship and material for a period of one (1) year from it's 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 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 transferable to any third party. Unauthorized end user or third party modifications to any component or evidence of misuse or abuse of the device will render all warranties void.

By law some countries do not allow limitations on certain exclusions in this warranty. Where applicable by local laws, regulations and legal rights will take precedence.



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