

ANALOGUE
WIRELESS



UK
WildlifeCameras
...bringing nature closer



Version 3.0

Introduction

Thank you for purchasing our wildlife camera kit – we hope it will bring you many hours of enjoyment, relaxation, discover and learn more about your garden wildlife.

Please read this set up guide and instructions to get the best out of your new wildlife camera.

This analogue camera kit is easy to set up and can be done typically within an hour without any prior experience.

We recommend to setup the kit within the same room to get familiar with the equipment, and to make any necessary adjustments - before a permanent fixture is made.

This product can offer a nominal range of up to 100m when unobstructed, and in ideal conditons between the wireless receiver and camera.

This can however be significantly reduced with walls, structures, and interferences from other wireless devices.

For instance, if two walls are inbetween the camera and the receiver, the transmitting operating range may be reduced down to 20m. This is variable, with some installations the range could be limited to a few metres in the worst scenarios.

This is a normal characteristic of this anlagoue wireless product and most other wireless devices. There are however a few methods that can help to increase the range such as repositioning the receiver or using a booster antenna.

Performance of the camera kit can further be affected by other factors such as amount of lighting levels in the operating environment, and installation method.

This product is a:

Digital Wireless



Analogue Wireless



WiFi Wireless



Warranty

This product comes with a minimum 2 year UK warranty unless otherwise specified by the retailer. Should the product fail within this time, a replacement will be issued free of charge upon return of the faulty unit with the proof of purchase. Please also refer to the seller's warranty policy if there are any additional terms. Misused units or units which have been tampered with/modified may be declined. Please contact us or your distributor directly.

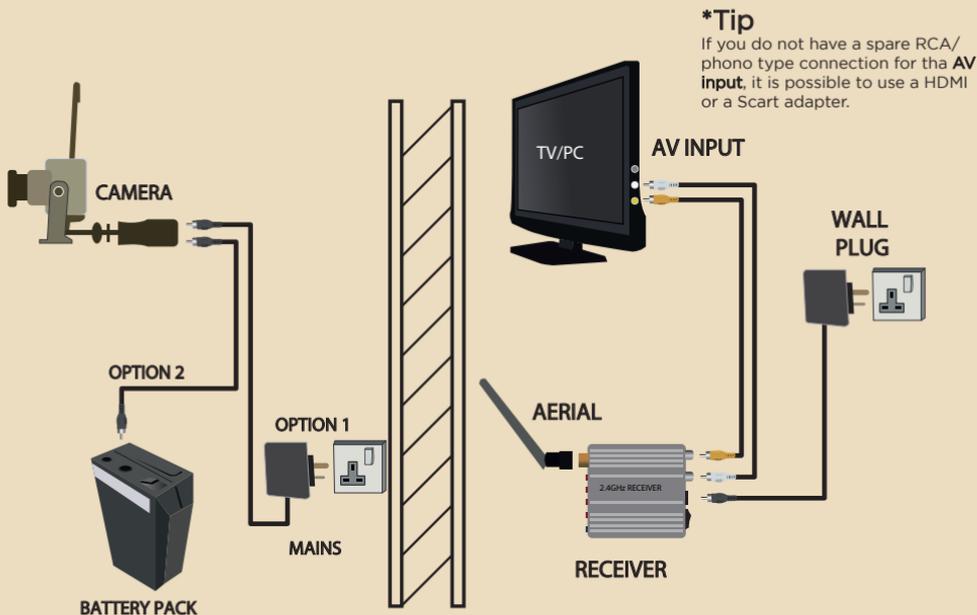
Warnings

- The mains power supply units are not waterproof.
- The camera does need to be sheltered (i.e. enclosed within a nest box). The camera is not waterproof unless otherwise stated.
- Ensure cables are routed so these do not present a tripping hazard.
- The kit does contain small parts and present a potential choking hazard, so keep out of reach of young children.
- Ensure the correct power supply units and battery packs are used with this product.
- Do not use the equipment if damaged or tampered with.
- Children should be supervised if using any element of this kit/system.
- As with all electrical devices, ensure the mains power is fused through circuit breaker/s and a RCD.

Initial Setup

Start by connecting the receiver to a TV/monitor, then power the camera using the mains power supply unit supplied - in the same room. After successfully obtaining a satisfactory image, we recommend to then power the camera using a suitable battery back, using extension cables, or connecting to a USB grabber unit.

Overview Setup Arrangement

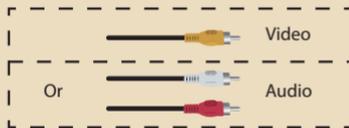


*Tip

If you do not have a spare RCA/phono type connection for the **AV input**, it is possible to use a **HDMI** or a **Scart** adapter.

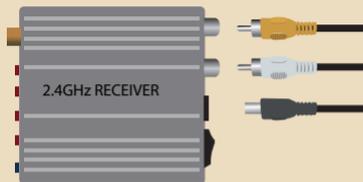
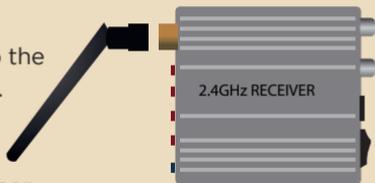
BATTERY PACK

As with all wireless devices, the camera does need to receive power in order to operate. There are two main ways to do this.



Receiver Model REC202

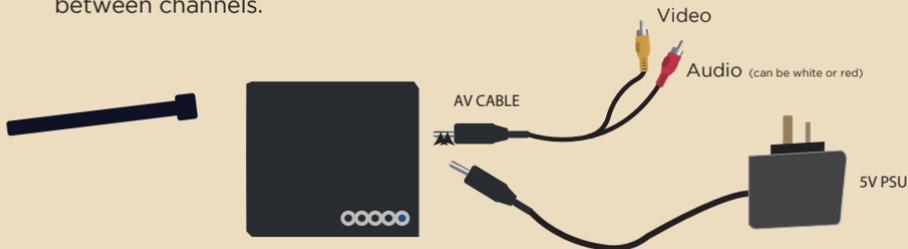
1. Carefully screw the antenna into the receiver in a clockwise direction.
2. Plug the AV (Yellow & White ends) to the receiver and the other end of the cable to your viewing device (Monitor/TV). The input AV connections for a TV are typically found at the back or on the side. Connections are similar to as if you were connecting a VHS/DVD player.
3. Plug in the 12V power supply unit to the receiver.
4. Select the correct TV channel - AV input. This can be done via your remote.
5. The channel number of the receiver can be changed by pressing the SET button.



12V Power Supply

Receiver Model REC109

- Carefully screw the antenna into the receiver in a clockwise direction.
- Plug the AV to the receiver and the other end (Yellow and Red leads) to your viewing device (Monitor/TV). The input AV connections for a TV are typically found at the back or on the side. Connections are similar to as if you were connecting a VHS/DVD player.
- Plug in the 5V power supply unit to the receiver.
- Select the correct TV channel – AV input. This can be done via your remote.
- Ensure all 4 dip switches found at the end of the receiver are put down, and the 5th on manual mode. This will enable all 4 channels to be turned on and can be manually selected. Loop mode will cycle through the selected channel numbers automatically.
- In manual mode, the channel number of the receiver can be changed by pressing the blue button. Please wait 3 seconds when changing between channels.



Wireless Camera Setup

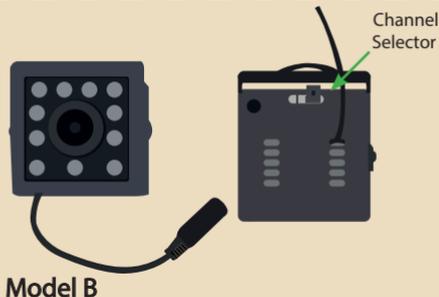
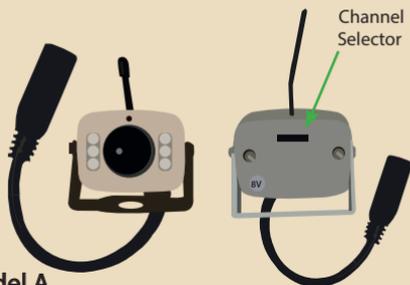
1. Connect the camera to the mains power supply unit. Once connected, the camera is now powered.
2. Select the channel number on the receiver to match the cameras one. If no image is shown try other channels on the receiver. If the camera has a fixed channel number - a sticker is present at back.
3. If necessary, twist the camera's lens CW/CCW to focus the image. If present undo a small screw beside the lens to do so (some models).

Channel Selector Switch (Optional)

To change the camera's channel, disconnect the power supply, and reposition the switch found at the back of the camera - by sliding this either left or right. Some units may not have this function or may be present at the end of the cable. Match the channel number on the camera with the receiver.

Once an image is obtained, it's time to position the camera where it is to be installed, and check if a satisfactory video/audio feed is given.

If not; try moving the receiver around, change the channel numbers to see if this improves. If not, check our troubleshoot section.



Powering the Wireless Camera

The camera can be powered either via a nearby mains power supply source (i.e from a local shed) or using a battery pack.

Different battery pack sizes will offer different operating lifespans. This can be from a few hours to days, and onwards, depending on the Ah rating (capacity of the battery).

If you wish to power the camera by battery, the models on page 6:
Model A requires 9V, model B requires 12V

For cable plug connections:

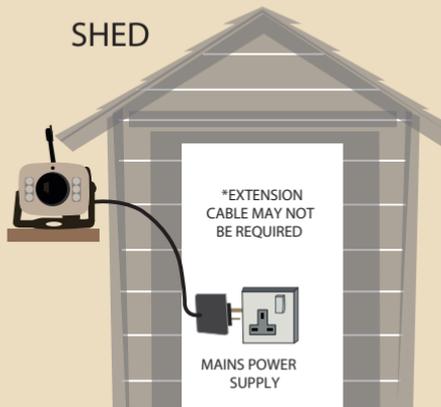
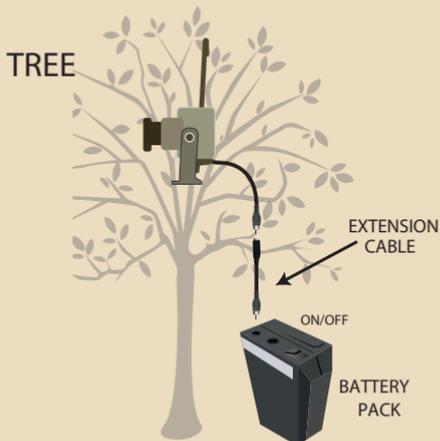
Model A requires 1.3 x 3.5mm , Model B requires 2.1 x 5.5mm

A 5m power extension cable is normally supplied in most kits, which can be used to prevent disturbance to the nesting box for power supply access. Additional extensions are available separately if required.

USB Connection

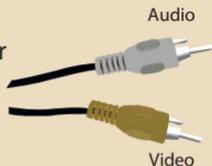
1. Install the driver and software files from the supplied CD.
2. Connect the USB cable to a spare USB port on your PC.
3. Connect the white and yellow leads from the USB grabber to the audio and video leads which are already connected to the receiver.
4. Open the pre-installed software to view and record footage.

Examples of Powering the Camera



USB Computer Connection

Receiver



Spare Audio



* Ensure the receiver is still powered using the supplied mains power plug.

USB GRABBER

Camera & Wireless Performance

Different camera models will produce varying image qualities which depend on their electronics/lens. Higher number of television lines (TVL) will produce sharper images. The image sensor model and whether this is a CCD or a CMOS will normally determine the quality of the colours produced. Typically, with the CMOS type models, colours will appear to be more washed out and may not represent true colours. For instance, a red colour may reassemble closer to pink. With insufficient light lighting the colours in the image may be partially B&W mixed with washed out colours.

Analogue wireless systems are open to interference and are restricted by UK law to operate up to 10mW (2.4GHz), whereas with digital wireless systems these are restricted to 100mW (2.4Ghz) thus offering a greater wireless range, and on top of this offer interference free transmission.

We always recommend to opt for a CCD Digital Wireless kit/system where possible. Analogue wireless system can also provide superb satisfactory results in majority of the cases. Various chipsets/models will perform differently in different scenarios. We supply a wide range of wireless camera models to suit any individual budget, group projects, for amateurs, hobbyists, to professional wildlife enthusiasts.

Night Vision/Audio

The camera's night vision feature is invisible to the naked eye and does not interfere with the nesting. When light levels are low, the camera will produce B&W video output. To increase the lighting level within the nest box, using side wall windows from frosted acrylic material is recommended.

If the model has a built in microphone, audio will be produced through the white RCA plug from the receiver.

Additional Accessories & Upgrades

We stock a range of accessories, upgrades and offer technical services.

Camera Power Extension Cable

A variety of cable lengths are available to extend the power cable running from your camera to the mains or battery power source.

Receiver Audio Video Power Extension Cable

This can be used to reposition the wireless receiver further away from your TV/monitor to help with transmission.

Aerial Booster

Larger antennae with high gain to improve transmission pick up and help to increase the wireless range significantly further.

Scart Adapter

A Scart adapter with 3 phono leads, should you wish to connect the audio/video output into a Scart input.

Extra Camera/Receiver

A total of up to 4 cameras can operate on a 4 channel receiver with each one operating on a different channel number. Additional receivers will allow to pick up the image at different locations within range.

Rechargeable Battery Pack

Power your wireless camera using a rechargeable battery pack. Offering from a few hours of usage to days depending on the capacity size.

Remote Control

Turn your camera/s on/off remotely to save battery life.

Bird Boxes and Accessories

We supply a range of nest boxes for all birds together with accessories including metal entrance plates for additional protection.

Visit: www.UKWildlifeCameras.co.uk

Trouble Shoot

Problem	Suggestion/Notes
<p>There is interference or buzzing noise</p> <p>E.g. Constant/partial hissing noise, grainy/rolling bars.</p>	<ul style="list-style-type: none">• Possible wireless interference and/or due to interference from surrounding electrical equipment.• Try moving the camera and receiver around.• Change the camera and receiver channel.• Wireless range issue.
<p>No signal shown or black image on the TV screen</p>	<ul style="list-style-type: none">• Try suggestions above.• The connections at the back of the TV and/or connecting to the receiver are incorrect.• Ensure the correct AV channel is selected on the TV.• Check the same channel number is on the receiver as the camera.• Check if power supply units are working.

Problem	Suggestion/Notes
Short wireless range	<ul style="list-style-type: none">• Reduce the amount of obstructions between the camera and the receiver.• Weather can also reduce the range.• Reposition receiver.
Receiver light is not on	<ul style="list-style-type: none">• Check if power supply is working and receiver is switched on.
Camera LEDs are not glowing	<ul style="list-style-type: none">• These will not be visible to the naked eye.• Using a digital camera pointing at the LEDs in a dark environment, the screen will show they faintly glow.• Placing the camera within a dark environment a B&W image should appear.
Blurry image or out of focus	<ul style="list-style-type: none">• Twist the lens CW/CCW until image is improved.
Image obtained is in B&W	<ul style="list-style-type: none">• There is insufficient light for the camera to operate in colour mode. Increase light levels.

Recycling Products

To take care of the environment, please ensure the electronics along with packaging are properly recycled and not disposed with ordinary household waste. Please ensure these are taken to a suitable facility for disposal.

Feedback/Further Advice

For added enjoyment, further general information, specifications and articles about this product can be found on our Knowledge and Advice pages on our website.

UK Wildlife Cameras is a small UK based business operating since 2009, that consistently develops products, and works closely with manufacturers to produce high quality nature observation equipment. We hope this product will offer great entertainment.

Contact

For technical support - the quickest and best way for us to assist is via email:
support@ukwildlifecameras.co.uk

Please do include the model number found at the back of the packaging for the reference. Without this we may not be able to assist you efficiently. If possible also do include your order number.

For sales and other enquiries:
info@ukwildlifecameras.co.uk

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