



User Guide

Wireless Camera Nest Box (CIBI)

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1. Introduction

Thank you for purchasing one of the Nestbox Company's family of products. We hope you will enjoy many years of viewing nesting birds with this Wireless Camera Nest Box.

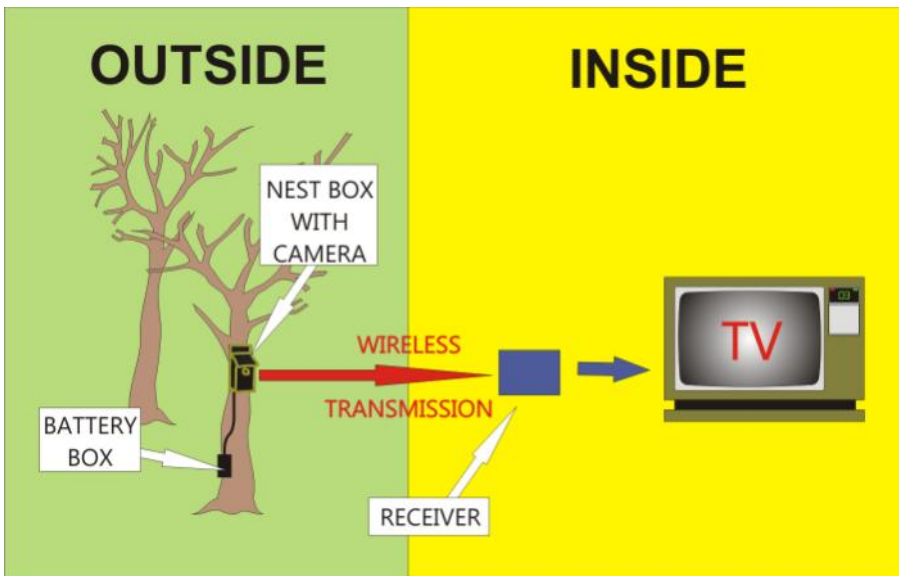
2. Setting Up Your Equipment and System

The Wireless Camera Nest Box consists of 2 main components:

1. Nest Box with Camera
2. Battery Box
3. Receiver

As well as this, the product includes the accessories necessary to connect the parts of the system together, to power sources, and to your computer or TV.

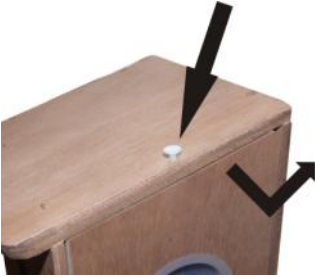
It is easy to put the system together by following these step by step instructions.



3. Unpack Your Nest Box

Unpack the Wireless Camera Nest Box.

Some of the parts you will need may be packed inside the Nest Box.



To open the Nest Box pull the peg up from the roof and tilt the removable panel of the side away from the body of the box. The panel will then come away completely.

Carefully unpack the other parts of your kit.

As well as this User Guide, you should have the following parts in your kit:

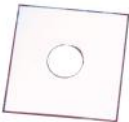
Nest Box with Camera, Lights and Transmitter



Battery box for 4 size D batteries, including battery holder, on/off switch and cable to nest Box, and hanging Bracket.



Mains Power Supply for camera This provides an optional alternative to running the system by battery.



White Diffuser and black Baffle to ensure good overall coverage of the infra red lights.



Receiver, with Antenna,



Mains Power Supply



and Video/Audio Lead



4. Setting Up Your Equipment for Operation

4.1 Set up the Nest Box

Open the side of the Nest Box, so that you can get to the camera unit fitted to the removable side panel.

Carefully turn the camera so that it is pointing towards the floor and remove the lens cap (if fitted) from the front of the camera.



If you are running the nest box on batteries, open the Battery Box, remove the battery holder and fit 4 size D batteries (observing the polarity shown on the battery holder). Replace the battery holder, ensuring that it is securely connected to the PP3 snap fitting inside the Battery Box.



Ensuring that the connectors are inside the Battery Box, run the power cable out of the Battery Box through one of the slots in the base, and fit the lid onto the Battery Box, using the 4 screws provided.



If you decide to use the mains power supply, disconnect the battery holder from the PP3 snap fitting inside the Battery Box. Remove the battery holder. Connect the PP3 snap fixing on the end of the Mains Power Supply Unit to the PP3 snap fitting inside the Battery Box, run the 2 cables out of the battery box and fit the lid, using the 4 screws provided.



Connect the other end of the power cable to the mating connector on the camera inside the Nest Box. Position the joined connectors inside the Nest Box and pass the cable out through the small hole in the side formed when the side panel is put back in place.

Fit the side panel back onto the Nest Box and replace the securing peg.

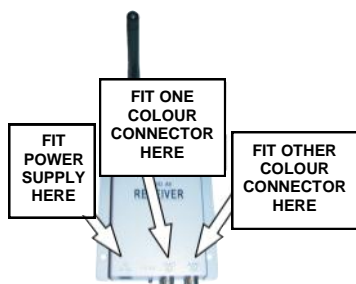


4.2 Set up the Receiver and Connect to TV

Screw the Antenna onto one end of the Receiver. Adjust the angle of the Antenna so that it is approximately vertical.



The receiver can be mounted vertically using the screw holes provided, or rested in a horizontal position.



Fit the 9V Mains Power Supply (it has a cylindrical plug) to the Receiver (DC 9-12V) and plug it into the Mains.

Switch the power on. The red indicator light will light to show it is on.

Fit one end of the Receiver Video/Audio Lead to the Receiver, connecting one colour to "VIDEO OUT" and the other colour to "AUDIO OUT".

Fit the other end of the Receiver Video/Audio Lead to the direct input video and audio connectors of your TV. Connect the colour you connected to "VIDEO OUT" on the Receiver to Video In on the TV, and the colour you connected to "AUDIO OUT" on the Receiver to the Audio In socket on the TV.

As an alternative, you may prefer to plug this in to the Video/Audio connectors on a video recorder or VCR.

If you only have a SCART input socket for your TV, you can fit the cable through an appropriate adaptor (not supplied, but available as an accessory).

The cable (and the signal it carries) is not suitable for direct connection to your TV aerial or antenna socket.

Turn the TV on, and switch it to the direct video/audio input.



Ensure your Nest Box is powered up (either by battery or mains).

Set the Channel Switch on the Receiver to the channel number indicated by the label on the top of the camera. On your TV screen, you should see the base of the Nest Box and a finger or pen if you poke it through the entrance hole. You should hear through the TV if you tap the box. If you didn't notice which channel it was set to, simply move the switch in turn to each of the 4 channels until you see the picture.

At this stage (ie before putting the box outside the house), it is a good idea to check (and if necessary adjust) the camera angle and focus, so that you get a good view of the bottom of the nest box, and the focus is a few centimeters above the floor of the box.

4.3 Set up the Nest Box in the Garden

First find a promising location in your garden.

Nest Boxes are normally fitted (with the roof uppermost) to a tree or wall, about 2 to 4 metres high from the ground. However, depending on the situation, it is generally OK to fit the box higher. For further advice on siting nest boxes, you may find it helpful to look at the RSPB web site: www.rspb.org.uk/gardens/whatyoucando/nestboxes/siting.asp.

It is generally best to place the box out of direct sunlight so it does not get sun all day or too much wind and rain. This means that you could face it to the North East or South East.

The Nest Box should be fitted in a position where it is close enough to the Receiver so that you get a good picture. Although the nominal range is 100 metres, the actual range depends on a number of factors, particularly including obstacles close to and in between the Nest Box and the Receiver, such as walls and trees. If you are in any doubt as to the position, it may be better to fix the Nest Box temporarily until you have checked the reception.

The Nest Box is designed to be fitted in most situations with just 1 screw or nail, using the concealed keyhole in the back of the box. Fit the screw into the tree or wall first, and then offer up the box onto the screw so that the screw head goes through the lower part of the



keyhole. Then slide the box down so that the box is securely fitted. The keyhole is positioned opposite the entrance hole into the box so that it is easy to see through for fitting, and the screw can be tightened once the box is fitted. If you wish to secure the box with a second nail or screw, a hole in the base/back of the box has also been provided, although in most situations this will not be needed.

Rope, string or wire can also be used to fit the box. To do so, pass a loop of string etc through the keyhole, and attach it to a small twig, nail etc.



Making sure this is pulled back to the keyhole, but not through it, tie the string etc round the tree.



It is best to fit the Nest Box upright or tilted slightly forward to give some protection from driving rain.

Position the box away from other trees, bushes, branches etc which may make it easier for predators. Try to provide a clear flight path into the entrance hole. It is recommended that you do not place it near to a bird table or other place where you feed the birds, because the constant traffic of birds will deter nesting

The Battery box should be mounted with its cable exit holes at the base.

5. Miscellaneous

5.1 Adjustment of Camera Focus and Exposure

Before leaving the factory, the camera focus has been adjusted to a little above the floor of the nest box. You can adjust the camera focus by turning the lens turret. The camera is a very delicate part of the system so please do this gently, and be very careful not to touch a finger on the lens.

When viewing a picture illuminated by the infra red lights (when it is too dark outside for a good colour picture), you may find the picture has a “hotspot”, a white central area in the middle, or is white all over. This is due to the concentration or brightness of the infra red lights when so close to the subject. Use the white Diffuser or black Baffle (or both), clipped over the lens turret to reduce this effect.



The Diffuser will distribute the light round the box and help with hotspots.

The black Baffle will reduce the overall infra red intensity.



5.2 Audio Volume

The audio system is fitted with an Automatic Gain Control (AGC) which increases the amplification when the microphone is picking up little sound, and decreases it when it picks up more noise. In quiet situations, this results in high gain, and can lead to the pick up of some hum.

We suggest you set the volume on your TV to a level where, in quiet conditions, any background noise or hum is barely audible, and is not intrusive. When the birds take up residence, and start making a noise, the AGC will ensure that you hear their sounds above the level of the background noise.

5.3 Transmission Range

The Transmitter and Receiver have a nominal range of 100 metres.

The actual distance achieved will vary depending on atmospheric conditions, the position and type of nearby obstacles (such as walls, trees, or metal objects) and the state of the battery

Moving the Receiver just a few centimetres can sometimes make a big difference to the strength of the signal, so to obtain the best reception, we suggest you move the Receiver around to find the best location by trial and error.

5.4 Cleaning the Nest Box

Once a year, after the nesting season has finished and all the birds have left the nest, we recommend that you clean out the Nest Box and dispose of all nesting material and unhatched eggs etc. Under UK legislation, you can only remove unhatched eggs between August and January. If you remove any eggs you must dispose of them.

To do this, take the side off the box (as explained earlier) and carefully clean the box, the side panel itself and the camera with a soft cloth or brush, being especially careful with the camera lens.

Take out any nesting material from the nest box and throw it away, and wash out the box with hot water (being careful not to get the camera or connectors wet). With the side open, leave it for a day or two to dry out, before shutting the box , and putting it back in position.

5.5 Pictures at Night

At night, or when completely dark outside the nest box, the only source of light in the nest box will be the infra red lights fitted on the camera. Under such conditions, the camera will give an image which is dimmer than the image in brighter light such as daylight, and consists of shades of grey, just like a black and white picture. This is perfectly normal. We use infra red lights at night so that you can continue to see a picture, but, because birds cannot see infra red, their natural sense and rhythms of day and night are not affected.

Because of the dimmer pictures at night, we suggest that you turn the brightness on your TV (or computer) up at night to get a better picture.

6. Specifications, Warranty etc

The specifications of the product described and the contents of this User Guide are subject to change without notice, as part of our continuous improvement process.

Whilst every care has been taken in the preparation of this document, we realise that it may still be possible to improve it. If you find any errors, omissions or points which are not clear, please let us know by email at mail@nestbox.co.uk. We will endeavour to deal with the problem to your satisfaction, and learn from it for future versions.

The contents of this document may not be reproduced in whole or in part except for your personal use.

The Nestbox Company Limited warrants all its products against defects in materials and manufacture for 6 months from the date of purchase. If a defect is discovered, the Nestbox Company will repair or replace the product (at its option) free of charge, provided it is returned to the address in this User Guide at the customer's expense.

The Nestbox Company Limited is not able to accept any responsibility for any loss, damage, or loss of data suffered by any customer or third party as a result of use, misuse or malfunction of the product or this User Guide. In particular, whilst the product has been extensively tested, we are unable to warrant that is free of defects.

If you have any further technical or user questions relating to the product, please email it to us at mail@nestbox.co.uk.

From time to time, we provide customers with product updates. Please check the web site for details.

7. Care for the Environment

The Nestbox Company cares deeply about the Environment. We have adopted an Environmental Policy designed to demonstrate our commitment to operating our business in harmony with the natural and man made environments. If you wish to see the full policy, it is available to read on our web site.

Our products are developed to be economical with natural resources, both in manufacture and use. We comply with all the relevant laws and regulations, including those relating to the Restriction of Hazardous Substances (known as RoHS) and Waste Electronic and Electrical Equipment (WEEE).

The wood used in our products comes from responsibly managed forests, as part of our commitment to the FSC.

When you have finished using this product, please dispose of it responsibly. We would suggest using your local household recycling and waste treatment facility, particularly for the electronic parts of the product.

Certain of our products are marked with the following symbol:



This denotes that they must be disposed of at end of their useful life at an appropriate local waste treatment facility. Please follow this instruction.

This User Guide is printed on recycled paper. All our packaging is designed so that it can be re-used or disposed of by composting.

8. Accessories for your Nest Box

Our comprehensive range of accessories is designed to enable customers to make the best use of their nest boxes. Why not accessorise your equipment to extend its capabilities and make it do exactly what you want? The following accessories are suitable for your Wireless Camera Nest Box:

Daylight Sensing Battery Box

Accessorise the Wireless Camera Nest Box to give it very long battery life, dusk/dawn switching, use of rechargeable batteries and also site the batteries away from the nest box in a convenient position for changing/switching.

Battery to Camera Extension Cable

Extend the distance from your battery or battery box to the Eco Nest Box. Convenient battery changing and avoid disturbance when changing batteries.

Mains to Battery Extension Cable

Want to use mains power, but need a longer cable from the mains power unit to your battery box or connector?

Connection to PC/Laptop

This small converter allows you to feed pictures of your nest or wildlife straight into your computer. No need to install any hardware inside the computer.

Rechargeable High Capacity Battery Set

8 high capacity rechargeable batteries and mains charger. Last for longer between charges. (Use with Daylight Sensing Battery Box).

Solar Panel

Help save the planet by using renewable energy to operate your Nest Box or Camera. You may never need to change the batteries again (Requires Daylight Sensing Battery Box).

Entrance Hole Plate

Small metal plate to fit on front of nest box, to protect the resident birds from predation from squirrels, woodpeckers etc.or to reduce the size of the entrance hole, and limit the box to smallest bird species,. Available in various sizes.

Side Opening Nest Box

Another nest box to match your Wireless Camera Nest Box, but with no camera. Use it to increase your chances of attracting birds to nest. Swap the camera from one box to another if the birds choose the wrong box.

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