

# Colour Camera and Nest Box System

Vers 1.05



## INSTRUCTIONS AND GUIDANCE FOR:

Camera Ready Nestbox with  
Colour/Infrared + audio camera kit

## INTRODUCTION

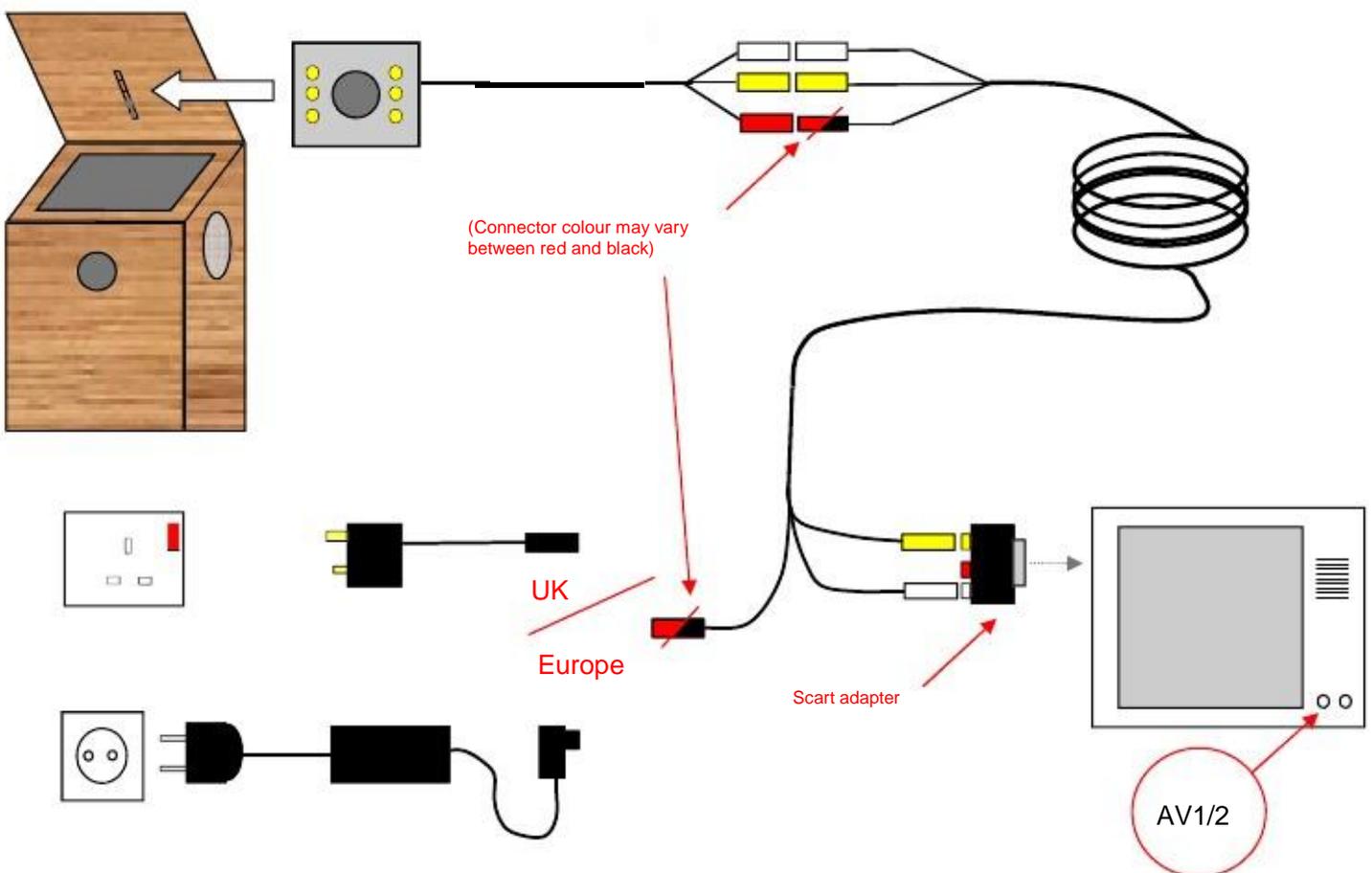
Congratulations upon the purchase of your combined camera ready nestbox and Colour/Infrared + Audio camera kit.

The camera in this product is colour with infrared and audio. Under normal daylight, and when connected to your TV, the camera will show images in colour\* but will automatically revert to infrared (black and white) when there is insufficient light for normal operation. Please note – the Infra Red Lights are Invisible to Humans – Not being able to see them when switched on is Normal!

The camera system is powered via the enclosed power adapter which converts the mains power to a safe low voltage (8 – 12v dc) and accordingly cable routing in the garden will not present a hazard. The camera system is designed to be 'plug and play' directly to a TV, or if you wish to record as well as monitor, via an VHS/DVD recorder (Please check suitability of your equipment).

Colour\*: Please note that to combine colour with infrared requires a filter in the lens that can have the effect of 'washing out' some the colour image. This is not a defect but a natural characteristic of this kind of camera.

## WIRING AND CONNECTIONS



## CONNECTING THE CAMERA AND TUNING THE TELEVISION

The colour of connector leads may vary to the diagram but are generally; yellow (video), white (audio), red/black (power). Notice that the video and audio connectors are of the same standard RCA/Phono type, but that the power connector is smaller and of different design.

Before proceeding with the main connections, on the long extension cable check to establish which power connector fits to the camera and which to the power adapter, as it is likely that it will connect in only one way. This then gives you the orientation of the long cable. If there is one, gently pull off the camera lens cap!

Follow the colour coded wiring diagram as illustrated making sure all the relevant connections are secure. To connect to the television, plug the white and yellow connectors into the colour coded connections on the scart adapter and plug it into a spare scart socket on the TV. When complete, and with the power adapter plugged into the mains electricity, you are ready to power the system.

At this point switch on the power to the camera system and switch on the television. If a picture does not appear on your television you may need to use the remote control to change to the appropriate input channel. Depending upon the number of scart and other possible inputs to your TV, there will be a button on the remote control called 'source' or 'AV1/2' (see owner manual). Usually this is a scroll button and pressing repeatedly will scroll through the various input sources. By doing so you should find the appropriate input for a picture to appear from your camera. You may adjust the colour, brightness, sound etc on your TV in the normal way.

Alternatively, if your television has colour coded direct phono connections (sometimes on the side or behind a drop-down panel on the front) you may omit the intermediate scart adapter and connect to these inputs. Tuning may be required as described above. Also, if you wish to monitor and record images, then the scart adapter may be connected to the input of a vhs/dvd recorder and the signal tuned to the TV in the normal way.

The lens on the camera is designed for subjects in close proximity and focus may be adjusted by gently screwing the lens in/out by small amounts. Like any other camera when the focus is set there will be a 'depth of field' in front of and beyond the focus point within which elements in the picture will be in focus.

For this reason, when setting up the camera in the nestbox it is recommended that the primary focus point is concentrated on the main area of activity you wish to monitor, in other words it is perfectly normal for the adult bird to appear slightly blurred as it enters the nest access hole, but to be fully in focus in the core nesting area.

Note: the camera is not waterproof and should always be located within a housing and protected from the elements.

## FITTING CAMERA TO NESTBOX

Your nestbox comes with a camera fixing clip already located under the hinged lid, although you are free to relocate this to your preference.



**STEP 1**  
unscrew the two screws at either side of the lid/roof and open the nestbox.



**STEP 4**  
Affix cables using clips and/or ties inside box or lid (suggested) . If connections are outside box, simply wrap with insulation/duck tape to prevent water ingress.



**STEP 2**  
Slide the camera on to the clip and orient as preferred.



**STEP 5**  
Tighten all screws including those on the camera body to ensure the camera is rigid



**STEP 3**  
The tension of the camera clip may be adjusted by tightening/loosening the main screw



**STEP 6**  
Attach cable to outside of box using cable clip (suggested).

When complete hang the nestbox in your preferred location and route the cable from the garden location to a convenient entry point into the house. So long as the cable is not crushed or sharply kinked, it may be passed through a window opening or frame. For a more permanent arrangement drill and feed the cable through a wall or window frame, taking care to seal openings with proprietary sealant.

## NESTBOX

The nestbox is made from solid, naturally durable FSC timber and has a screwed construction and should last for many years. The outside of the box may be painted/stained/ varnished if required. With the metal hole protector retained, the nestbox is suitable for small birds such as blue tits, marsh tits, coal tits or wrens. The hole protector may be removed to expose a slightly larger hole that will encourage great tits and sparrows etc.

**Cleaning:** Clean the nestbox annually in the early autumn as birds may roost in the box during early winter and in preparation for the nesting season.

**Siting:** Locate the nestbox in a position 1.5 - 2.5m high and ideally face the box between north and southeast.

**Maintenance:** Annual cleaning, and painting/staining as preferred

If you have difficulty obtaining a picture, check all connections are made and are secure, ensure there is power to the camera and the tv is switched on. Thereafter it is likely that the problem will be with the appropriate tuning of the TV. In case of further difficulty call the helpline (0044) 1522 704505