

## IP Nest Box Camera

1080p HD Colour with Audio & Infrared night vision.  
2 Megapixel, Starlight imaging

This IP colour camera has been primarily designed for use in Gardenature nesting boxes where it will produce colour images down to extremely low light levels, but it is very capable of many other applications too! This 2-megapixel IP camera incorporates latest technology 'Starlight Imaging' and 'IR-Cut' filtering which together produce the most stunning high definition HD 1080p colour images.

This high spec IP camera utilises a built-in light sensor that gradually switches the x10 night vision LEDs supplementing loss of light with an invisible infrared (IR), this produces sharp black & white images in complete darkness for 24-hour viewing. *It is important to remember that when installing this type of camera into your own nest box or enclosed habitat that it will produce B&W images if there is not enough natural light.*

The camera also houses a highly sensitive microphone, so you can hear as well as see what's going on. The camera has a 4mm lens producing the ideal 92 degree viewing angle.

The lens has been pre-focused, but it can very easily be adjusted to suit other applications if required.

This camera is not waterproof, it must be positioned in a sheltered enclosure such as a Gardenature camera ready bird box or habitat such as a hog box, aviary, rabbit hutch, dog kennel or even up in the eaves of your house, the list of possibilities is endless. We advise you not to fix the positioning until you have viewed the day/night camera image.

### STEP 1: Before you start.

Please read these instructions all the way through and then initially set up your IP Camera Kit indoors to familiarise yourself with the connection procedures and to ensure everything is working. *Cables are not covered under warranty once they have been installed*

### STEP 2: Camera to Router quick set up.

*Do not fit the weatherproof RJ45 connector together until you have tested your camera and are ready to permanently install the kit outside. (see Step 5 overleaf)*

1. Observing the clip position connect the non-booted end of your long cable into the camera port.
2. Connect the other end of the long cable into the POE injector port marked 'POE'
3. Connect the short cable into the POE injector port marked 'LAN'
4. Connect the other end of the short cable into a spare RJ45 port on your router
5. Plug the mains lead into you POE injector and the other end into a mains power socket and turn on.

*The 12vDC input at the camera is only used where a POE injector is is not in use and the project requires direct 12vDC power to this port.*

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wildlife camera systems



### STEP 3: Viewing your Camera via an App

To view your Network IP camera on a smart phone or tablet you will need to download a compatible App from Apple, Play or Amazon store.

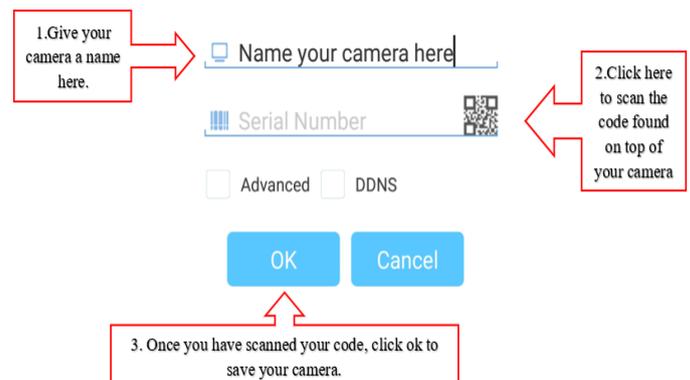
The App we recommend to download is called **XMEye**

Once installed, you can open the programme and register yourself with a free account for viewing from anywhere, or you can click on 'Local Login' in the bottom left of your screen.

*NB 'Local Login' will only allow you to view the camera when you are on the same network.*

#### To add your camera / device.

Press the + icon in the top right of the screen on your device then follow the steps scanning the QR code on your camera:



When complete you should be able to view live and record the camera on your mobile device or tablet.

Take note that the blue light on the connector at the camera is to confirm power, and the flashing green light confirms that data is being received.

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## Viewing on a PC

This IP camera is intended for viewing through an App, it is possible for you to view the camera on a desktop PC or Laptop using alternative software programmes readily available in the market place.

We recommend a free software programme called **CMS** and have made a download link available for it on the Gardenature website. Click on our **Advice** tab and you will see the **Product Guides** heading on the left of the page, click on item **8: IP Camera - CMS Software** and follow the directions.

## STEP 4: Camera and positioning

Once you have decided where to site the camera fix the separate U shape Camera Bracket with the two screws provided, then slide the camera fixing down into it being careful not to force the prongs forward otherwise the camera will not be held tightly. Position the camera angle by swivelling the camera on its own bracket then gently tighten x2 screws on the sides of the camera, *do not over tighten*.

The camera has been pre-focused, but you can adjust this to suit your project by loosening the tiny grub screw on the lens barrel and gently turning the lens left or right a few mm. Note that birds will build their nest towards the back of a nest box and 3 - 4cm above the floor area.

## STEP 5: Weatherproof Connectors.

When you are sure of the camera positioning you can fit the weatherproof connector.

The long Cat5e Ethernet cable has two slightly different ends; the one that is not booted will connect to the camera port as illustrated below:



1. Place the rubber O-ring onto the port screw socket connected to the camera.
2. Pass the threaded collar cup over the RJ45 plug and down the cable.
3. Take the thick rubber bush which has a split in it to hotdog round the cable.
4. Pass the centre housing over the RJ45 plug and push the rubber bush up flush into the pronged collar.
5. Observing the one-way clip position, plug the cable into the camera screw port then push the centre housing and rubber bush up to the thread and turn to tighten.
6. Connect the threaded collar cup up to the base of the connector and turn to tighten.

The POE injector sends the required 12v DC to the camera down the cable, in which case the 12v DC input at the camera end is not required for this application.

We recommend the weatherproof connection and the 12v DC input are tucked away inside the nest box or sheltered from the weather where ever possible.

Never allow cables to dangle freely inside a nesting chamber or habitat. Gardenature nest boxes and habitats are available to purchase and are fitted with camera clips and cable trays.

## STEP 6: Getting the cable into your house

*Do **NOT** shut the cable in a window or door aperture, this will cause internal damage to the cable and possibly camera failure.*

To get the cable into the house drill a 15mm hole through your wall, window frame or airbrick. Feed the cable into the house being careful not to pull the RJ45 plug off. Ideally you can use a thin piece of metal rod such as a wire coat hanger to tape the cable to and pull through.

Further guidance, please visit the Gardenature website and go to the '**Advice**' tab, see '**Product Guide 1**' where you will find a short video: **Getting the cable through a wall.**

## Quick Care / Maintenance Guide

When not in use, it is recommended that your Gardenature camera is carefully stored away to help keep it in good condition.

Using your camera during cold weather we recommend that you leave the power supply to the camera switched on at all times to stop the camera from freezing.

Should you require any help or advice when installing your Camera System please feel free to send us an email or call us.

## Warranty

This Camera and POE is covered by a two-year warranty, proof of purchase will be required.

*Cables are **NOT** covered under warranty once installed.* Please test your kit before attempting installation.

## Contents:

- IP Camera
- Weatherproof RJ45 Connector kit
- Quick Release Camera Bracket
- Cat5e weatherproof Cable (optional length)
- POE Injector and Mains plug
- Short patch cable

WEE: Waste electrical equipment should be disposed of at a suitable local authority facility for recycling.

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