

Thermal NestBox Inspection Camera

User Manual June 2026



ABOUT:-

Thermal cameras are specialised devices which detect the heat radiation of warm-bodied animals making them visible during daylight and in total darkness. This unique technology can even reveal animals buried under nesting materials. Thermal imaging cameras are not a replacement for conventional Nest Box Inspection cameras.



This thermal camera produces “white hot video” which looks like conventional black & white video except warmer colours appear lighter. Traditional inspection cameras operating in the visible or infra-red light spectrum can miss animals that are camouflaged or hiding, leading to underestimates of population sizes.

Features

- Complete pole mounted system ideal for a single operator use
- Thermal Camera has 175mm of forward projection
- Germanium lens has wide field of view, meaning everything from a short to medium distance remains adequately in focus
- LCD Monitor has a sun shade & pole mounting bracket
- Monitor records video & audio to micro uSD card
- Up to 4 hours run time from a single charge
- Includes Smart battery with protective nylon pouch & cable ties
- Includes eco-friendly storage case
- 12 months Warranty

LCD Monitor MOUNTING BRACKET:

Secure the LCD Monitor's, quick detach, white mount bracket to your pole at a convenient height. Use a hose clamp & cable tie making sure the Monitor is correctly aligned in the direction of the camera. Slide the Monitor onto the bracket engaging both lugs, secure the Monitor underneath with the small bolt.

Cable tie Battery Pouch near the top of your extension pole. Pouch can remain permanently on the pole. Extra batteries & pouches are available to fit out multiple poles & provide extended run-time.

Using the Inspection Camera:-

Screw the Thermal Camera onto your extension pole. Plug camera's power cable into a USB socket labelled OUT on the top of the Smart battery.

Press small button on side of Smart battery - Camera will power up. To turn OFF press button again or carefully unplug power cable, grasp the plug do not pull it out by the cable.

POWER UP CAMERA BEFORE the LCD MONITOR

With the Thermal Camera ON, open the Monitor's sun shade, hold down **MENU** button until the screen comes **ON**.

Live video from the thermal camera should be visible on the LCD screen along with the following icons.

Battery 3 bars=100% charged

CH - B - 8 correct channel & frequency

LCD Monitor is NOT WATERPROOF do not use it in the rain.

TO RECORD VIDEO:-

Press the **Rec** button. Red record icon flashes on the screen during recording. To end recording short press the **Rec** button, Red record icon disappears.

TO TURN OFF THE LCD MONITOR:-

Hold down the **MENU** button, about 2 seconds, until the screen goes **OFF**.

TO TURN OFF THE INSPECTION CAMERA:-

Alternatively you can carefully unplug the Inspection Camera's USB power cable from the top of the Smart battery. Grasp the plug do not pull it out by the cable.

TO DOWNLOAD VIDEOS:-

Eject micro SD card from the “**TF Card**” slot, by pressing it in about 2mm then releasing, it will spring out. Use a card reader to transfer or view the video files on a PC. Re install the micro SD card into the “**TF Card**” slot with its gold pins facing upward.

TROUBLESHOOTING:

NO IMAGE ON THE LCD Monitor:

Make sure that the Thermal Camera is ON. Most likely cause is that the monitor is no longer tuned to the correct band or channel.

Check the onscreen display it should read **CH -B - 8**. If not use the **Band+** button to select **CH-B** then use the **CH+** button to select - **8**. Clear picture should now appear on the screen.

Make sure that the Smart battery pack & the LCD are fully charged prior to use and that both antennas are connected. Power up the Thermal Camera first then the LCD Monitor.

CARE & MAINTENANCE

Thermal cameras are sensitive electro-optical devices. Proper storage, transportation and handling practices are essential to safeguard them from damage and to maximise their life.

1. Always store & transport the Thermal Camera in the case provided. Remove it from the pole when driving to a new location, don't just strap it pole & all to the roof rack.
2. Avoid extreme temperature and humidity conditions that may cause condensation or damage to electronic components.
3. Do not place camera on car dashboard and avoid exposure to direct sunlight for extended periods. Store the camera in a shaded area when not in use.
4. Protect the delicate lens avoid over cleaning. If you must clean it use a puffer/blower brush to remove dust, very gently wipe the lens using a lint-free microfiber cloth or lens tissue.
5. Do not leave the Thermal Camera **ON** unnecessarily; either turn it **OFF** or unplug it from the smart battery
6. Do not leave the LCD Monitor **ON** unnecessarily; turn it **OFF** when you have finished viewing the nest box video

LCD-18 Monitor CHARGING PROCEDURE:

- Monitors must be switched **OFF** during charging
- Plug the Lcd-18 charger cable into the socket on the side of the Monitor marked “**DC/+12V**”.
- Charge indicator Led on the front of the Monitor is red during charging changing to green when the monitor is fully charged
- Charge after use do not store Monitors with a flat battery

Smart - Battery CHARGING PROCEDURE:



Smart battery can be charged with any standard 5 volt/ 2 amp phone charger. You will require a **USB to micro USB cable**. Charging is automatic; four leds on the battery indicate its state of charge. Charge time is around 3~4 hours

CHARGING: Connect a 5 volt/ 2 amp phone charger to the **USB micro** socket labelled **IN** on the top of the Smart battery.

Note: the two full size USB sockets labelled “**OUT**” cannot be used for charging. They are only for **power out to the camera**.

Precautions:

- Do not leave devices unattended while charging
- Do not place on dashboard of vehicle – to avoid overheating
- *Smart* batteries & LCD Monitors are not waterproof
- Switch Camera **OFF** when not in use to avoid overheating & possible damage.
- Switch Monitor **OFF** when not in use to conserve battery power.

Do not store Smart Battery or Monitor in a discharged state for extended periods.

NO WARRANTY APPLIES TO BATTERIES or DAMAGE RESULTING FROM BATTERY FAILURE OR INGRESS OF MOISTURE.

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