Camtraptions PIR v4 Manual
(extract)

Weatherproofing

The Camtraptions PIR Sensor v4 is built for reliable operation in demanding outdoor conditions. However, regular checks and care are essential to maintain its weather resistance and ensure dependable long-term performance.

1. Check and Clean Seals

The main seal around the **battery door** is critical to maintaining a watertight enclosure.

- Ensure the seal and its contact surface are **clean and free from vegetation, debris or grit** before closing the door.
- Inspect the seal periodically for **wear, cracking, or deformation**.
- If a seal is damaged, it should be replaced. **Replacement seals** can be obtained by contacting **Camtraptions Support**.

2. Protect Unused Openings

All external ports and access points should be securely sealed when not in use.

- Ensure the **weatherproof rubber caps** covering the **power and camera signal sockets** are firmly fitted to prevent moisture or dirt ingress.
- Check that the **SD card bung** (located beneath the right-hand flap) is fully inserted after use to protect the memory card slot.
- Replacement caps and bungs are available from **Camtraptions** if any are lost or damaged.

3. Use Silica Gel

In all environments, but particularly in **wet or humid conditions**, it is recommended to place a **small sachet of silica gel** inside the **battery compartment**. There is space beside the battery for this purpose.

- The silica gel will **absorb residual moisture** introduced when the door is opened (for example, during battery changes) and helps prevent internal condensation.
- Any small silica sachet that fits can be used, though **Camtraptions 1 g individually sealed sachets** are ideal for this application.

- Replace the sachet every **4-8 weeks in humid climates** or every 3-6 months in temperate conditions. Replace the sachet more often if the battery door is being frequently opened.

This simple precaution can significantly enhance the **longevity and reliability** of the sensor in challenging climates.

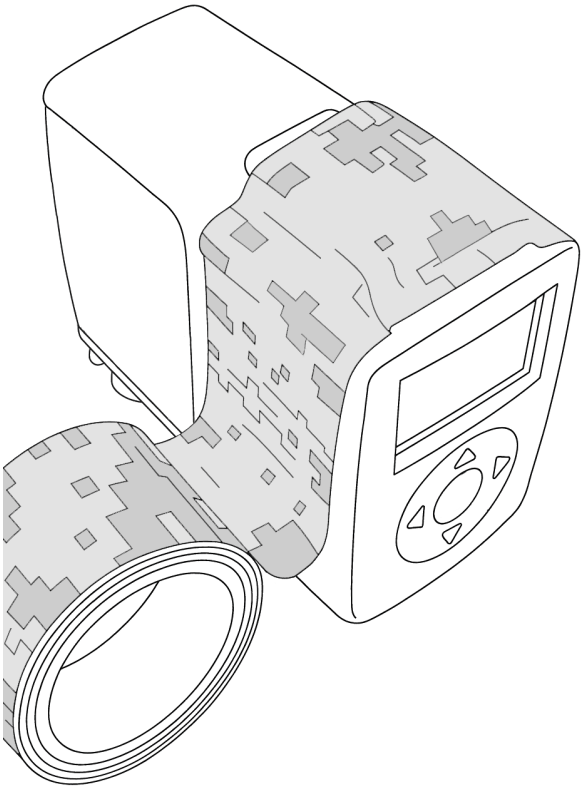
4. Avoid Submersion or Flood Risk

The sensor is **weather-resistant but not waterproof**. It is not designed to be submerged and should not be deployed in locations where it could be flooded — for example, in areas prone to **rising water, heavy runoff, or riverbank overflow**. Always mount the sensor in a position where it remains above likely water levels.

5. Freeze-thaw Precautions

In cold, wet environments, water could accumulate in the seam between the battery door and the main enclosure body. If temperatures drop below freezing, this water can **turn to ice and expand**, placing pressure on the door latch and potentially compromising the seal.

To minimise this risk, you can apply a **wide strip of waterproof tape** around the door joint—running from one lower corner of the enclosure, across the top of the latch, and down to the opposite lower corner. This simple precaution helps prevent water from pooling in the seam, reducing the likelihood of freeze-related damage during cold, wet deployments.



This manual extract applies to firmware version 1.19.

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