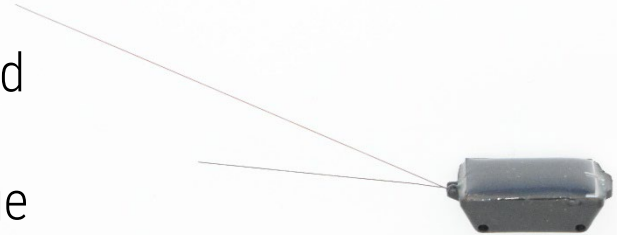




# Bird Tracker „Avian“

Lightweight LoRaWAN bird tracking tag with solar harvester and data storage



The LoRaWAN GPS “Avian” tracking tag ensures seamless tracking of small birds throughout their annual cycle, even in areas without network coverage. Its internal data storage preserves animal movements when outside network range, preventing data loss. Upon returning to network coverage, the stored data is wirelessly transmitted. The integrated solar energy harvester remotely recharges the battery, enabling prolonged data collection over multiple seasons. With a lightweight design of just over 4g, the tag is versatile for monitoring a wide range of species.

## Application

- Tracking of birds and ducks

## Features

- Year-round monitoring & tracking
- Storage for location data (approximately 100,000 datasets)
- Remote configurability
- Ruggedized and waterproof housing (IP67) made from biocompatible material (USP Class VI)
- Supported by tracking platform „IoT Wonderland“ (<https://www.iotwonderland.com>)

## Technical Details

- Positioning: GNSS (GPS, Glonass, Beidou, Galileo)
- Accuracy: 2.5m CEP (statistical value - errors may be larger than 2.5m)
- Transmission: LoRaWAN 1.0.2b
- Range: Up to 50km (line-of-sight range, less when not airborne)
- Battery: Lithium polymer cell - rechargeable
- Runtime: up to 4 years
- Weight: 4.3g

Upon request we will provide support for your project, both remotely and field-support. Please don't hesitate to contact us by email or using the contact form on our website.