



PinPoint Solar VHF download

Technology:  Satellite

Product:  Tag

Clapper rail (*Rallus crepitans*) © Eliza Elizondo 2016



Extend the life of your PinPoint tags using the sun's energy

The life of our PinPoint range of GPS tags can be extended by using our solar housing option. The lightweight casing gives a **starting weight of around 4g**.

The aerodynamics of the tag have been optimized while providing a large surface area for the solar panels.

There are a variety of designs to improve the exposure of the solar panels to the sun, including transparent domes or feather grooves, which maintain the streamlined format, and provide harness attachment points.

With our PinPoint VHF tags, GPS locations are logged on the unit, then via the radio beacon, you can find tagged individuals and download the data from a distance using our PinPoint Commander and a Yagi antenna. Alternatively, the PinPoint Commander can be set up in the field as an autonomous download station..

Options

- Data download: VHF Signal using the [PinPoint Commander](#)
- Customer design options to reduce feather coverage (see reverse)
- Sensing: Mortality, Temperature, Proximity

Features:



Temperature



Accelerometer



Mortality



Proximity



Beacon



Position



Data download (Radio)



Duty cycling



Solar Assist

Solar Panels:

To extend life

Aerodynamic and lightweight:

Reducing the impact on the bird

All the PinPoint benefits:

Easy scheduling and data processing available from all our PinPoint range are available for these solar versions

Product Applications

Pinpoint GPS VHF Solar tags work well for determining habitat selection, home range movements, and/or multi-year migration patterns. Birds need to stay in a local area, or return to a known location (e.g. nest or roost) so that you can get close enough to download data.

Ideal for species that spend sufficient time in the sun, the solar tag permits long-term tracking while minimizing weight. Please discuss your specific application with our Telemetry Specialists to consider whether it will be appropriate.



Model	PinPoint VHF Solar- XXS	PinPoint VHF Solar- XS	PinPoint VHF Solar -S	PinPoint VHF Solar -M	PinPoint VHF Solar -L
Standard weight ^[1] (g)	4.0	5.5	6.6	11	16
Base Dimensions (LxW) (mm)	27 x 14	35 x 16	40 x 18	60 x 22	80 x 25
Height Dimensions ^[2]	From 9mm	From 11mm- Tag body height & dome shape customised to order			
Antenna length	5cm GPS antenna, 18-23cm VHF antenna				
Location Attempts	Number of location attempts are schedule dependent. Please contact one of our Avian Telemetry Specialists for estimates.				

1. Listed weights include tube/attachment points for fitting harnesses, flat top design and standard antennas. Weights may vary, especially with case and antenna options.
2. Minimum tag height 11mm. Tag height can be increased to bring the solar deck above the feathers, if required.
3. Antenna angle can be set at a high or low angle (in relation to the back of the bird), as required.

Features and specifications subject to change without notice.

Solar options to reduce feathers covering the solar panels



Flat top
(Standard design)



Crested dome
(Diverts feathers to the side and away from the solar deck)



Feather channel
(Channels on the sides direct feathers underneath the solar deck)

Technical specifications:

Operating temperature range: -5°C to +35°C

Waterproofing: Splash tolerant

Repower: Solar panel recharging.

Streamlined tags to reduce drag on flying birds

Harness attachment points at front and rear of tag

Please note, the options alter the weight and height of manufactured tag

Accessories:

A PinPoint DLC is required for scheduling, and downloading locations if the tag is retrieved after deployment.

A [PinPoint VHF Commander](#) and Yagi antenna are required for remote download. A manual tracking receiver, such as the [Biotracker](#) receiver, and a Yagi antenna are required to find the tag using the beacon.

Warranty

PinPoint Solar tags are warrantied to be free of defects in materials and workmanship under Normal Use for a duration of 80% of Estimated Life to a Maximum of 6 months, whichever is shorter, of their first deployment.

For Warranty terms and conditions, please review our [Warranty Statement](#).

