



SPOT TAG PRODUCT SHEET

SPOT tags are highly versatile location trackers for rugged marine applications. Not only is the Wildlife Computers SPOT tag a cost-effective transmitter but it is the most published-on marine satellite tracking tag on the market. With over 50 different animal-focused designs available, there is a solution to fit every need.

How It Works

When at the surface, SPOT tags send out short transmissions to the Argos satellite system. Consecutive transmissions received in a single satellite pass are used to calculate the location of the transmitter. Locations are available online in near real time with accuracies as good as 250 m. The global nature of the Argos system allows animals to be tracked over long distances and in remote areas.

Data Products

- Argos Doppler Locations
- Percent-Dry Timelines
- Time-at-Temperature Histograms



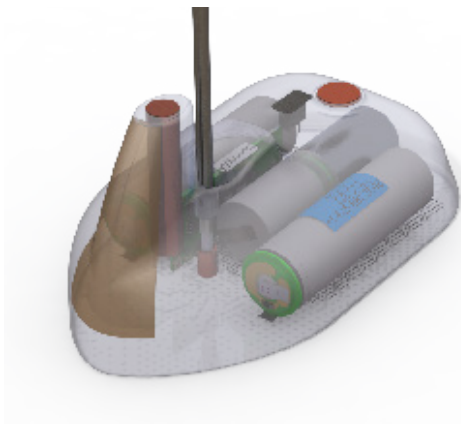
SPOT-311

Attachment Options: Glue on, fin mount, flipper mount, float mount, AUV mount, towed, and anchored.

Size Options: Ranging from 30 grams to 390 grams and in over 50 shapes for marine animal, float, and AUV application.

Complete Flexibility in Argos Uplink Schedule

The SPOT Argos uplink schedule is completely user-customizable. The researcher has the power to decide how many transmissions to attempt each hour of the day. This allows temporal resolution to be increased during parts of the day or year that are of greatest interest. Transmissions can be suspended and battery power saved when Argos satellite coverage is poor or when animal locations are known.



SPOT-375



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SPOT Tag Product Sheet – continued

Key Features

Power Savings

SPOT tags incorporate a battery-saving transmission regime to help prolong tag life while optimizing data reception. Short, three-byte messages are sent whenever data is not in the queue. Sending shorter messages takes less power and prolongs tag life.

Pinger

The SPOT includes a pinger for radio tracking. Animals can be located and assets recovered with the use of a directional antenna and receiver.

Specialized Shapes

SPOT tags are available in many shapes to suit a variety of taxa. Wildlife Computers partnered with the research community to refine each configuration for its intended application. The sensors and antenna placement, attachment mechanism, abrasion protection, size, weight, and hydrodynamics of each shape have been carefully considered and specialized to optimize performance, maximize retention, and minimize animal impact.

Value-added Extras

Wildlife Computers not only provides tracking technology but also mounting equipment and best practice instructions for proper tag attachment. Attachment gear is available for epoxy bonding, fin and flipper bolting, subdermal anchoring, and tethering instrumentation with a connected float.

The Portal Advantage

SPOT tags are supported by the Wildlife Computers Data Portal, a collection of data management tools and services. Developed specifically for the display and investigation of data from Wildlife Computers tags, the data portal streamlines the processes of acquiring, preserving, viewing, and sharing SPOT location and temperature data.

Consulting Services

Our consultation team—which includes on-staff biologists—works to understand your project goals including what data you need, what animal you are researching, environment, and more. The team uses knowledge gathered over the last 30 years on best practices, techniques, and procedures to make recommendations for getting the data you need to meet your objectives.



Technical Specifications

Pressure Rating	2000 m for most shapes
Operating Frequency	401.678MHz
Sensors	Temperature, Wet/Dry
Temperature	Range: -40 to 60° C / Resolution: 0.05° C / Accuracy: +/-0.1° C
Communication	Via USB Port using Wildlife Computers USB Communications Cable