v. 26-01
tags@wildlifecomputers.com
WildlifeComputers.com
+1 (425) 881-3048

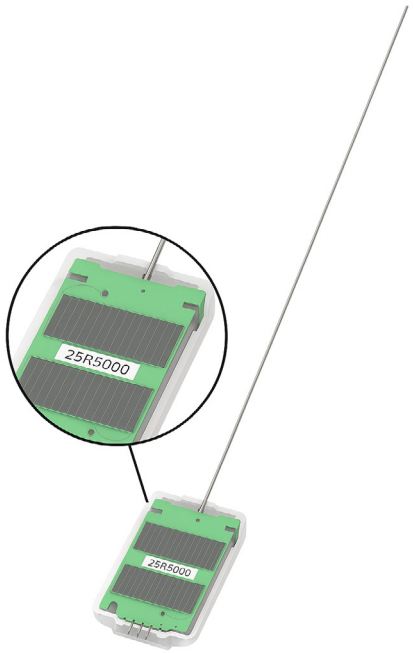
8310 154th Ave NE, Suite 150
Redmond, WA, 98052 USA

DENALI-S7 TAG PRODUCT SHEET

The Denali-S7 is the next-generation, solar-powered Argos transmitter tag designed specifically for avian research. Engineered for comfort and minimal impact, the Denali-S7 enables global tracking of birds weighing as little as 250 grams, with seamless data management through the Wildlife Computers Data Portal.

Key Features of the Denali-S7

- **Minimally-intrusive Design**—the tag's small size, low profile, rounded edges, and a strong yet pliable antenna all minimize mass, drag, and risk of injury to the bird. The tag's smooth finish and inconspicuous antenna help preserve natural bird behavior.
- **Solar-powered Automation**—operation is fully automated with no setup required. The tag automatically adjusts its transmission effort based on available solar charge, ensuring optimal performance across seasons and environments without the need to choose duty cycling settings or predict sunlight in advance of deployment.
- **Flexible Attachment Options**—Denali is designed to accommodate whichever attachment method the researcher finds most appropriate. It is compatible with harnesses, sutures, or tape, and includes mounting holes for direct use or for securing a preferred baseplate. This flexibility supports deployment across a wide range of species and research applications.
- **Tested Reliability**—field-and lab-tested for strength and durability, including deployments on albatross, petrel, and shearwater.
- **Waterproof Construction**—tested to over 400 meters depth, this tag is suitable for marine and coastal birds.



Model: Denali-S7

- **Global Telemetry**—provides time-stamped longitude and latitude with Argos accuracy (typically 300 m), plus sensor date including ambient temperature, battery voltage, and solar charge.

DENALI-S7 TAG PRODUCT SHEET - CONTINUED

Data & Applications

- The Denali-S7 will typically generate 25-75 locations per day with the Kineis system.
- The Denali-S7 supports research applications like survival rates, migration timing/routes, natal dispersion, habitat preferences, site fidelity, ecological barriers, wintering grounds, and more.
- Twenty-two prototype tags were deployed in the USA, North Pacific, Australia, and New Zealand during field trials, with the longest deployment exceeding 200 days.

Portal & Support

The Portal Advantage—Denali-S7 tags are supported by the Wildlife Computers Data Portal, a collection of online 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, and sharing data services. The Portal helps collect, prepare, and analyze the data transmitted from the tag via Argos. Data are easily sorted, filtered, searched, uploaded, and shared. You can see a Google Earth display of your deployment track, color-coded to show the relative age of each location. You can also set up a live KMZ to get data into your own monitoring system.

Unmatched Support Expertise— When you choose Wildlife Computers, you're not just getting world-class tags—you're partnering with a team that's dedicated to your success. Our support specialists are highly responsive and deeply knowledgeable, ensuring you get answers and solutions quickly. With over 30 years of experience and more than 4,600 research articles published using our tags, we know what it takes to deliver the data you need for groundbreaking science. From troubleshooting to optimizing deployments, we're here every step of the way to help you achieve your research goals.

Technical Specifications

Tag weight (excluding neoprene)	7.4 grams
Dimensions (L x W x H) mm	36 x 19 x 8
Pressure rating	Tested to 400 m depth
Operating frequency	401.678 MHz
Operating life	Unlimited with solar
Sensors	Temperature, battery voltage, solar
Operating temperature range	-5° C to 60° C as specified by battery manufacturer
Charging temperature range	0° C to 65° C as specified by battery manufacturer
Battery charging	Solar
Battery	Lithium polymer rechargeable battery
RF power output	Maximum 500 mW, typically 200 mW when deployed
Tag on/off protocol	Using a magnet

To Learn More Call: **+1 (425) 881-3048** or Email: **tags@wildlifecomputers.com**

Tag features and specifications subject to change without notice.