WILDLIFE COMPUTERS

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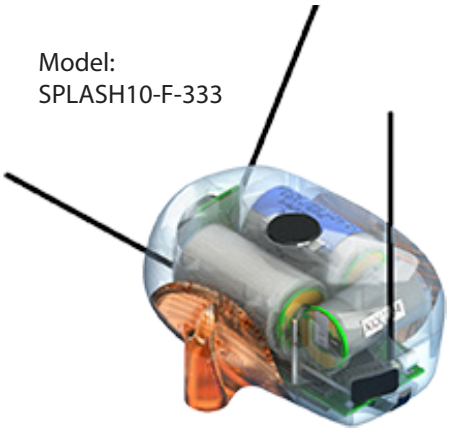
LIMPET SUITE PRODUCT SHEET

Low Impact Minimally Percutaneous Electronic Transmitter (LIMPET) tags are widely used for cetacean tracking. LIMPET tags were originally designed in 2006 for tracking killer whales. Since then, LIMPET tags have tracked more than 20 species of whales and dolphins.

Users deploy LIMPET tags remotely with a pneumatic rifle or crossbow anchoring two small titanium darts into the thin outer layer of blubber. The electronics remain external and, when the animal surfaces to breathe, the tag transmits data to the satellites. Typical deployment durations range from weeks to several months.

Model:
SPLASH10-F-333



Wildlife Computers offers three separate LIMPET feature options: SPOT, SPLASH10, and SPLASH10-F.

Tag Type	**SPOT-365**	**SPLASH10-333**	**SPLASH10-F-333**
Package Details	Horizontal Movement Location-only satellite tag	Behavior and Horizontal Movement Data-archiving, satellite transmitting tag	Behavior and Highly Accurate Horizontal Movement All the features of the SPLASH10 plus Fastloc® GPS locations
Key Features and Data Options	• Argos Doppler Locations (accurate to 250 m) • Percent-Dry Time Lines • Time-at-Temperature Histograms	• Argos Doppler Locations (accurate to 250 m) • Depth & Temperature Time-Series • Histogram and Dive Behavior Summary Messages • Temperature Profiles • Available with a standard or extended range depth sensor	• Fastloc GPS Locations (accurate to 20 m) • Argos Doppler Locations (accurate to 250 m) • Depth & Temperature Time-Series • Histogram and Dive Behavior Summary Messages • Temperature Profiles • Available with a standard or extended range depth sensor
Life* **Dimensions** **Weight**	510 days 57 x 48 x 24 mm 57 g	120 days 56 x 50 x 27 mm 69 g	110 days 56 x 50 x 27 mm 69 g

**Lifespan estimates may increase or decrease based on your deployment. Please contact you technical sales consultant for more information.*

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This is a small representation of our available tags.
Tag features and specifications subject to change without notice.

LIMPET SUITE – continued

LIMPET Accessories

Titanium Tag Darts

Wildlife Computers offers two dart sizes—standard and short. The standard dart contains two rows of three petals (six petals total) and is 68 mm long. The short dart contains a single row of three petals (three petals total) and is 45 mm long. Dart design is critical for tag reliability as the design dictates the implantation shock forces. For this reason, Wildlife Computers only warrants dart tags prior to implantation unless deployed with Wildlife Computer darts. *Both sizes are USD 200 each and we require two darts per tag for a total of USD 400.*

Dart Sterilization Packages

If you plan to use a gas sterilization system, these housings can be very helpful. The packaging consists of a tube and two urethane end-caps. When holding the "dart-tip" end-cap, the back end-cap and tubing can be removed. This allows you to easily screw the dart directly onto the tag without handling.

DANINJECT Air Gun

Wildlife Computers supports the DANINJECT CO_2 rifle for use with its LIMPET dart tags. DANINJECT, and our experienced clients, recommend model JM Special 25 with a 25 bar, 13 mm smooth barrel. You may need to call DANINJECT directly for this barrel option. Further information on this rifle can be found at: https://daninjectdartguns.com/product/jm-special/

Deployment Arrows

Once the shot is fired, the tag and deployment arrow are ejected. The rapid deceleration of the impact releases the urethane clip on the arrow, separating it from the tag. The tag stays with animal and the arrow floats for recovery and reuse. If the shot is missed and the tag remains attached to the deployment cup, the arrow and tag will likely float long enough to be retrieved. Deployment arrows are reusable for a maximum of five times and then should be discarded (based on recommendations from Cascadia Research Collective). Both air gun and crossbow arrows are available. Arrows are USD 75 and include a float and a deployment cup bonded in position.

Water-soluble Tape

Water-soluble tape is included with the price of each LIMPET tag. It is optional to use. The water-soluble tape helps with retaining the tag to the deployment cup. After the shot is fired, be aware that some of the tape may stay on the tag but will eventually dissolve as the tag is exposed to water. See our water-soluble tape best practices protocol by Greg Schorr.

Deployment Cups

Should you choose not to purchase the Wildlife Computers deployment arrows, deployment cups are available à la carte. Deployment cups are urethane cups designed to support the tag during firing. We have cups suitable for both crossbow shafts and air gun shafts. The cost is USD 25 and we recommend at least one cup for every three tags purchased.

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