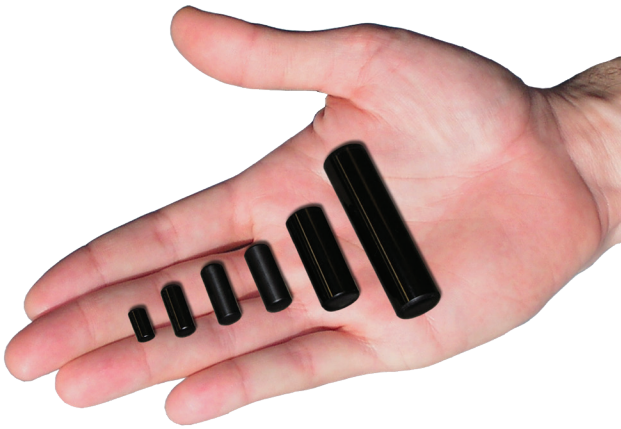
Coded Transmitters - 69 kHz

Transmitters with unique ID codes for surgically implanting in a broad range of aquatic animals from salmon smolts to great whites

Coded 69 kHz transmitters provide researchers with the means to track and monitor movement and behaviour patterns of a wide variety of aquatic animals. Coded tags are programmed with a unique ID that is specific to each individual fish being tagged.

The tags can function as basic pingers giving location and time of arrival near receivers or used for more detailed research when equipped with temperature and or depth sensors.

Available in a range of sizes from 6.3 mm to 16 mm in diameter and in a variety of battery models, the tags can be used in studies from one month up to several years in duration. Transmission range can be in excess of several hundred meters depending on environmental conditions.



Coded Tag Sensor Options

For research requiring temperature and depth information, V7, V9, V13 and V16 tags can be equipped with temperature (T) or depth (P), or both temperature and depth sensors (TP). See separate datasheets for Predation and Acceleration sensor tags.

V7 and V9 Pressure Sensors (at room temperature)		
Max Depth	**Accuracy**	**Resolution**
17 m	±0.5 m	0.075 m
34 m	±0.5 m	0.15 m
68 m	±1.0 m	0.3 m
136 m	±1.0 m	0.6 m
204 m	±1.0 m	0.9 m
290 m	±2.0 m	1.28 m

Temperature Sensors (V7, V9, V13, V16)		
Range	**Accuracy**	**Resolution**
-5 to 35 °C	±0.5 °C	0.15 °C
-4 to 20 °C	±0.5 °C	0.1 °C
0 to 40 °C	±0.5 °C	0.15 °C
10 to 40 °C	±0.5 °C	0.12 °C

V13 and V16 Pressure Sensors (at room temperature)		
Max Depth	**Accuracy**	**Resolution**
17 m	±1.7 m	0.075 m
34 m	±1.7 m	0.15 m
68 m	±3.4 m	0.3 m
136 m	±6.8 m	0.6 m
204 m	±10 m	0.9 m
340 m	±17 m	1.5 m
680 m	±34 m	3.0 m

NexTrak users: ask about adding Increased Residency (IR) programming to your next tag order!

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www.innovasea.com/fish-tracking

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Programmable ON/OFF

Programming options allow users to take advantage of tag behaviour over the life of their tags. Users can use between one to four programming steps to define the tags transmission: status (ON/OFF), time interval, power level (L/H) and nominal delay.

Pair With

» All 69 kHz receivers

Range Test Tags

Range test tags programmed at the same output power as your proposed study are used to conduct in situ range testing. They are configured with a FIXED delay and an ON time of two weeks as a pre-cautionary measure to ensure the tag will expire in a reasonable period of time if accidentally dropped overboard.

Case Options

The V16 comes in two case styles - an epoxy case with rounded ends for internal implantation or a PVC case with attachment holes for external mounting. The PVC external case is 18 mm in diameter and approximately 19 to 23 mm longer than specified V16 lengths below.

PRODUCT SPECIFICATIONS

Tag Model	Diameter (mm)	Length (mm)	Weight in Air (g)	Weight in Water (g)	Power Output dB re 1 µPa @ 1m (Low / High)	Battery Life (days)* Delay 60 secs	Battery Life (days)* Delay 180 secs
V6-2x	6.3	13	0.9	0.5	137 / 141	90	202
V7-2x	7	19.5	1.5	0.7	137 / 141	119	269
V7T-2x	7	19.5	1.5	0.7	137 / 141	106	243
V7-4x	7	21.5	1.8	0.9	137 / 141	172	387
V7T-4x	7	21.5	1.8	0.9	137 / 141	153	351
V7P/V7TP-2x	7	21	1.7	0.8	137 / 141	106	244
V7P/V7TP-4x	7	23	1.9	1.0	137 / 141	154	352
V8-4x	8	20.5	2.0	1.0	144 / 147	172	404
V9-1x	9	24	3.6	2.0	146 / 151	272	648
V9-2x	9	27.5	4.5	2.7	146 / 151	489	912
V9T-2x	9	27.5	4.5	2.7	146 / 151	437	912
V9P/V9TP-2x	9	31	4.9	2.8	146 / 151	438	730
V13-1x	13	31.5	9.4	4.4	147 / 152	905	1825
V13T-1x	13	34	9.7	4.8	147 / 152	811	1825
V13P/V13TP-1x	13	41.5	11.3	5.5	147 / 152	546	1347
V16/V16T-4x	16	68	24	10.3	152 / 158	3650	3650
V16P/V16TP-4x	16	71	26	12.0	152 / 158	2906	3650
V16-5x	16	95	36	16.9	157 / 162	2535	3650
V16T-5x	16	95	36	16.9	157 / 162	2345	3650
V16P/V16TP-5x	16	98	37	17.5	157 / 162	1949	3650
V16/V16T-6x	16	95	34	14.9	152 / 158	3650	3650
V16P/V16TP-6x	16	98	36	16.5	152 / 158	3650	3650

* *Battery life estimates shown are for LOW power option under ideal conditions. Actual results will vary depending on temperature, transmission rate, coding scheme, tag type, sensor options, battery size, transmitter age, and other factors. Long term storage of transmitters is not recommended, please refer to your quote for shelf-life guidance. Please contact your Sales Representative to obtain battery life estimates based on your specific tag requirements.*

Ready to Get Started? Contact us today.

About Innovasea

Innovasea designs the world's most technologically advanced aquatic solutions for fish tracking and builds them to withstand the toughest conditions. It's all driven by a commitment to make our ocean and freshwater ecosystems sustainable for future generations. Today. Tomorrow. For life.

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