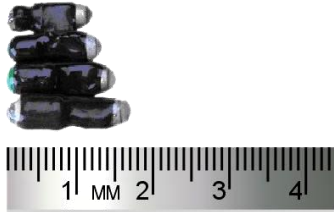


MODEL 795-SERIES ACOUSTIC TAGS & MODEL 800 MICRO ACOUSTIC TAGS



Fish Species: Yearling Chinook
Fish Length: 175mm

HTI's *Model 290/291 Acoustic Tag Tracking Systems* offer an efficient means of remotely tracking fish in three dimensions with sub-meter position resolution. *Model 795/800 Acoustic Tags* offer several advanced capabilities in the smallest acoustic tag commercially available.

A Brief Overview:

- Sub-meter, three-dimensional resolution over time (e.g., once every second).
- Lightest acoustic tag available: 0.5 g in air (*Model 800 Micro Acoustic Tag*).
- Smallest tag size: 6.5 mm dia x 15 mm long (*Model 800 Micro Acoustic Tag*).
- Detection ranges up to 1 km in freshwater.
- Individual tag identification, with over 50,000 unique codes.
- Much better resolution (sub-meter) than radio tags, without common depth detection limits (typically 10 m in water) of radio tags.
- Tag life to over 3 years available (*Model 795Z Acoustic Tag*).
- Several tag sizes/tag life combinations available to choose from.
- Encoded signal for 11 dB increase in signal strength, improving detection range and resolution.

HTI - HYDROACOUSTIC TECHNOLOGY, INC.
715 NE Northlake Way, Seattle, WA 98105 USA
Tel. 206.633.3383 | 206.633.5912 Fax
support@HTIsonar.com www.HTIsonar.com

MODEL 795 & MODEL 800 ACOUSTIC TAGS

Acoustic Tag Model	Minimum Life	Approximate Life in Days	
	In Air grams	3 sec PRI	10 sec PRI
<i>Model 800 Micro Acoustic Tag</i>	0.5 g	19 d	35 d
<i>Model 795Lm Acoustic Tag</i>	0.65 g	38 d	66 d
<i>Model 795LD Micro Acoustic Tag</i>	1.0 g	80 d	120 d
<i>Model 795LE Acoustic Tag</i>	1.5 g	63 d	105 d
<i>Model 795G Acoustic Tag</i>	4.5 g	90 d	130 d
<i>Model 795X Acoustic Tag</i>	13.0 g	180 d	300 d
<i>Model 795Z Acoustic Tag</i>	24.0 g	3 yr	4 yr

Life can be extended by decreasing Pulse Width (PW) and/or increasing Pulse Rate Interval (PRI). All tags operate at 307 kHz. Length, diameter, & weight may vary +/- 10%. Life quoted is based on operating parameters of 1 msec pulse width, single pulse, at 10°C.

Detection Range	Up to 1 km (3,280 ft) in freshwater. For three-dimensional tracking ranges <300 m (984 ft) hydrophone separation recommended for freshwater. Noisy sites may reduce detection ranges.
Frequency	307 kHz standard
Signal Encoding	Proprietary encoded code-phase modulated signal improves signal-to-noise ratio by 11 dB. Can be used to extend detection range (e.g., typically by 100-350 m in freshwater), or increase resolution by reducing pulse width (e.g., from 5 msec to 0.5 msec), or some combination of both.
Pulse Repetition Rate	Field programmable: 25 ping/sec to 1 ping every 16 sec
Pulse Width	Field programmable: 0.5 msec to 5 msec
Individual ID	Individual tag identification for over 50,000 unique codes, standard
Maximum Depth	300 m (984 ft)
Tag Programmer	<i>Model 490-LP Acoustic Tag Programmer</i> permits on-site programming of ping rate, pulse width, and tag ID. Destructive tag code "collisions" do not exist with <i>Model 795 Acoustic Tags</i> .

MODEL 290/291 ACOUSTIC TAG RECEIVERS

Dimensions	432 mm length x 254 mm width x 109 mm height (17 x 10 x 4.3 inches) for <i>Model 291 Portable Receiver</i> .
Weight	7.7 kg (17 lb) for <i>Model 291 Portable Receiver</i>
Power Supply	120-220 VAC (<i>Model 290 Receiver</i>); 12 VDC (<i>Model 291 Portable Receiver</i>)
Operating Temperature	0-50°C (32-122°F)
Power Consumption	Approximately 100 watts (<i>Model 290 Receiver</i>), or 25 watts (<i>Model 291 Portable Receiver</i>) w/o PC.
Number of Hydrophones	<i>Model 291 Portable Acoustic Tag Receivers</i> log data from up to 4 hydrophones. Each <i>Model 290 Acoustic Tag Receiver</i> can log data from up to 16 hydrophones simultaneously. Up to four <i>Model 290 Acoustic Tag Receivers</i> can be synced to log data from up to 64 hydrophones.
Specifications	All specifications subject to change without notice.
Demo Disk	Contact HTI for a demo CD for the <i>Model 290/291 Acoustic Tag Systems</i> .



New *Model 800 Micro Acoustic Tag*