

## MODEL 290-series ACOUSTIC TAG RECEIVER ADVANTAGES



Hydroacoustic Technology, Inc. specializes in the manufacture and use of hydroacoustic electronics for fisheries research. HTI's *Model 290-series Acoustic Tag Systems* and *Model 795 Acoustic Tags* are the most advanced acoustic tags and acoustic tag tracking systems available for fisheries research.

- 1) *Model 290/291 Acoustic Tag Systems* are capable of tracking tagged fish in three-dimensions, with sub-meter position resolution, with positions available anywhere from 25 times/sec to once every 16 sec (user selected). (A minimum of four properly deployed hydrophones are required.)
- 2) Over 500 tags in the same hydrophone array can be detected and tracked simultaneously by HTI *Model 290/291 Acoustic Tag Receivers*. Data destructive tag "collisions" common with radio tags and other manufacturers' acoustic tags do not exist with *Model 290/291 Systems*.
- 3) *Model 795 Acoustic Tags* can be rapidly activated and programmed by the user in the field for pulse width (0.5-10.0 msec), signal encoding, pulse repetition rate (25 pings/sec to 1 ping every 16 sec), and individual tag identification.
- 4) HTI *Model 795 Acoustic Tags* have a proprietary code-phase modulation signal available which increases signal strength by up to 11 dB over a conventional CW pulse, increasing detection ranges. This proprietary code-phase modulation is not offered by any other known manufacturer.
- 5) With *Model 290/291 Acoustic Tag Receivers* and *Model 295 Acoustic Tag Data Loggers*, detection ranges for *Model 795 Acoustic Tags* are typically 500 m to 1 km in freshwater. (Radio tags are typically limited to ranges of 10 m in water.)
- 6) Over 50,000 user-specified individual tag ID codes are available with *Model 795 Acoustic Tags*.
- 7) For small fish, using the *Model 490LP Acoustic Tag Programmer* and the *Model 491 Acoustic Tag Fish Programmer*, HTI *Model 795 Acoustic Tags* can be fully activated and programmed after being implanted in the fish.
- 8) HTI *Model 795 Acoustic Tags* are very small acoustic tags, and can be used to tag very small fish. HTI *Model 800u Micro Acoustic Tags* weigh only 0.5 g in air, and measure a mere 6.5 mm max. dia by 15 mm long.
- 9) *Model 795 Micro Acoustic Tags* have been used to tag and track juvenile fish as small as 90 mm in length.

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