

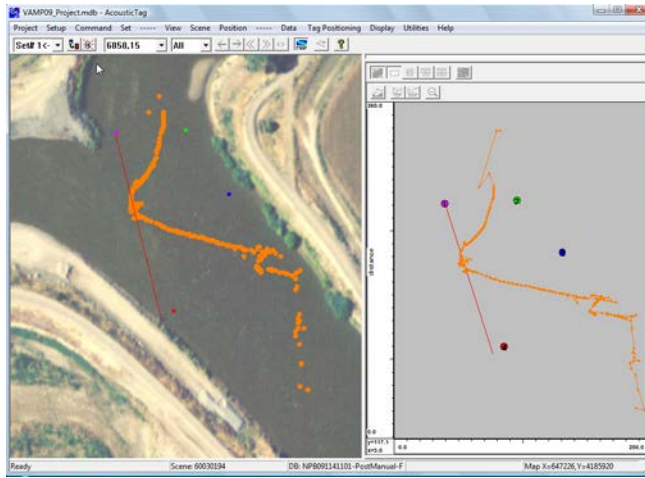
# MODEL 291 PORTABLE ACOUSTIC TAG RECEIVER



The *Model 291 Portable Acoustic Tag Receiver* is a portable 12 VDC version of the desktop *Model 290 Acoustic Tag Receiver*. Designed specifically for tracking fish tagged with *Model 795 Acoustic Tags*, the portable *Model 291 System* provides virtually all of the functions of the *Model 290 Acoustic Tag Receiver* in a compact, economic, four-hydrophone package operating on 12 VDC.

Both the *Model 291* and the *Model 290 Acoustic Tag Receivers* remotely track fish in three dimensions with sub-meter position resolution. While the *Model 290 Acoustic Tag Receiver* supports up to 16 hydrophones, the *Model 291 Portable Acoustic Tag Receiver* accepts up to 4 hydrophones. Both enable the user to observe the movement of each tracked animal (e.g., fish, aquatic mammals) in three dimensions. The *Model 291 Portable Acoustic Tag Receiver* offers the following:

- Portable, compact unit powered by 12 VDC.
- Monitors up to four hydrophones simultaneously.
- Can be used for mobile tracking and presence or absence monitoring with one hydrophone.
- Sub-meter position resolution for three-dimensional positions (e.g., once every second) with four hydrophones.
- Much higher resolution positions than with radio tags, without common depth detectability limits (typically 10 m).
- Lightweight tag at 0.55 g in air (*Model 800Lu Micro Acoustic Tag*).



## MODEL 291 PORTABLE ACOUSTIC TAG RECEIVER

- Power Supply:** 12 VDC standard (optional 100, 120, 220, and 240 VAC converters available)
- Dimensions:** 432 mm length x 254 mm width x 109 mm height (17 x 10 x 4.3 inches) without PC or hydrophones
- Weight:** 7.7 kg (17 lb), without PC or hydrophones
- Operating Frequency:** 307 kHz standard (70 kHz optional)
- Operating Temperature:** 0-50°C (32-122°F)
- Power Consumption:** 25 watts without PC or hydrophones
- Number of Hydrophones:** Each *Model 291 Portable Acoustic Tag Receiver* can log data from up to four hydrophones simultaneously.
- Data Displays:** Using the tag track marking and display program *AcousticTag*, three-dimensional and two-dimensional displays of fish tracks over time can be viewed. The user can control view rotation and speed of playback for each tag track.
- System Synchronization:** Can be time synced via GPS satellites with other *Model 291 Portable Acoustic Tag Receivers* or *Model 290 Acoustic Tag Receivers* and *Dataloggers*.
- Remote Operation:** Modem or satellite communication software permits full remote operation and basic diagnostic/quality control review of the *Model 291 Portable Acoustic Tag Receiver* from virtually anywhere in the world.

## MODEL 590 ACOUSTIC HYDROPHONES- See separate spec sheet

- Hydrophone Cables:** *Model 690 Hydrophone Cables* are available in 3-305 m (10-1000 ft) lengths standard
- Armored Cables:** *Model 696 Armored Hydrophone Cables* are steel reinforced for strength and durability, and are available in 15-305 m (50-100 ft) lengths.

## MODEL 795 ACOUSTIC TAGS – See separate spec sheet.

### NOTES

- Resolution:** Sub-meter three-dimensional resolution requires
- 1) Proper hydrophone geometry,
  - 2) Known location of hydrophones, and
  - 3) Adequate signal-to-noise ratio.
- Computer Req.:** Contact HTI for computer specs.
- Specifications:** All specifications subject to change without notice.
- Demo Disk:** Contact HTI for demo CD for the *Model 290/291 Acoustic Tag System*.

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