

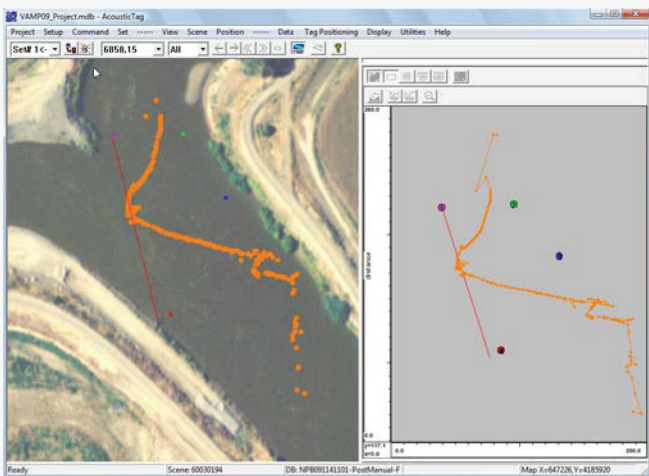
# M291 Portable Acoustic Tag Receiver

Remotely track fish in three dimensions with sub-meter position resolution

Operating at 307 kHz, the Model 291 Portable Acoustic Tag Receiver provides virtually all of the functions of the Model 290 Acoustic Tag Receiver in a compact, economic, four-hydrophone package operating on 12 VDC.

Each Model 291 Portable Acoustic Tag Receiver supports up to four hydrophones, receiving and storing tag detections for each hydrophone. Resulting tag positions are plotted in three dimensions so the user can observe the movement of each tracked fish.

Sub-meter three-dimensional accuracy requires proper hydrophone geometry, known location of hydrophones and adequate signal-to-noise ratio.



## Benefits

- » Portable, compact unit powered by 12 VDC
- » Monitors up to four hydrophones simultaneously
- » Can be used for mobile tracking and presence / absence monitoring using one hydrophone
- » Sub-meter position resolution for three-dimensional positions (i.e., once every second) with four hydrophones
- » Significantly better resolution than radio tags, without common depth detectability limits (typically 10 m)

## Pair With

The Model 291 Portable Acoustic Tag Receiver is used as a system with:

- » Model 795 Acoustic Tags
- » Model 590 Hydrophone
- » Model 690 Hydrophone Cables (variable lengths available)



## PRODUCT SPECIFICATIONS



### Frequency

307 kHz

### Dimensions

43.2 x 25.4 x 10.9 cm  
(17 x 10 x 4.3 inches)

### Weight

7.7 kg (17 lbs) without PC or hydrophones

### Power Supply

12 VDC (optional 100, 120, 220 and 240 VAC converters available)

### Operating Temperature

0-50°C (32-120°F)

### Power Consumption

~ 25 watts without PC or hydrophones

### Number of Hydrophones

Logs data from up to four hydrophones simultaneously

### Hydrophone Cables

Model 690 cables available in 8 to 305 m (25 to 1000 ft) lengths (can be combined)

Model 696 armored cables are steel reinforced and are available in 13 to 305 m (50 to 1000 ft) lengths

### Data Displays

*AcousticTag* software provides 3D and 2D displays of fish tracks

### System Synchronization

Can be time synced via GPS with the M290 Receiver and the M395 Data Logger

### Remote Operation

Modem or satellite permits communication with receiver from anywhere in the world

### Computer Requirements

Contact Innovasea

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.



[www.innovasea.com/fish-tracking](http://www.innovasea.com/fish-tracking)

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