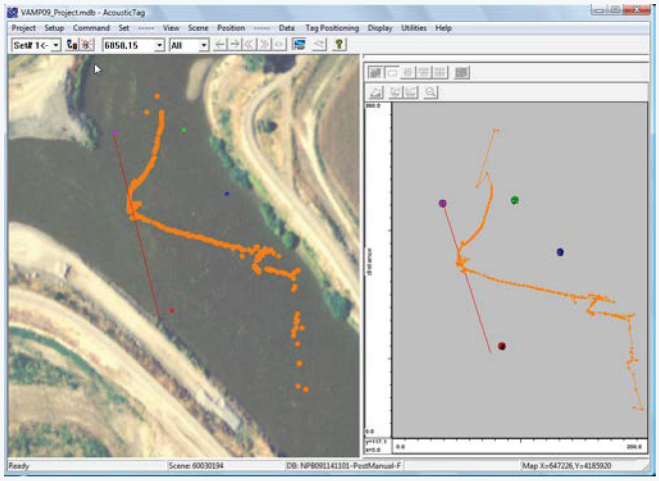
Model 290 Acoustic Tag Receiver

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

Operating at 307 kHz, the Model 290 Acoustic Tag Receiver offers a cost-effective means of remotely tracking fish in three dimensions with sub-meter position resolution.

Each Model 290 Acoustic Tag Receiver supports up to 16 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 (minimum of four hydrophones located in two planes), known location of hydrophones and adequate signal-to-noise ratio.



Benefits

- Significantly better resolution than radio tags, without common depth detectability limits (typically 10 m)
- Sub-meter, three-dimensional position resolution over time (i.e., once every second)
- Access data remotely and in real-time or in post processing
- Individual tag identification, with up to 250,000 unique codes standard
- Monitors up to 16 hydrophones simultaneously
- Encoded signal for 11 dB increase in signal strength, improving detection range and resolution

Pair With

The Model 290 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
50 x 28.2 x 52.2 cm
(19.7 x 11.1 x 20.6 inches)

Weight
?? kg (?? lbs) without PC or hydrophones

Power Supply
120 - 220 VAC

Operating Temperature
0-50°C (32-120°F)

Power Consumption
~ 100 watts without PC or hydrophones

Number of Hydrophones
Logs data from up to 16 hydrophones simultaneously

Hydrophone Cables
Model 690 cables available in 8 to 610 m (25 to 2000 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 M291 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.

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