VR2Tx Receiver

Built-in tag improves fine-scale positioning results and enables communication from the surface with deployed receivers

The VR2Tx receiver comes with a built-in transmitter that enables transponding capabilities for remote communications from the surface with deployed receivers.

The built-in transmitter can be used as a sync tag for improved fine-scale positioning results and can also provide a means to retrieve receiver status on demand through communications to a VR100 tracking receiver at the surface via a transponding hydrophone.

Researchers can retrieve essential information from any deployed VR2Tx such as unit health, number of detections, tilt, range, temperature, and estimated remaining battery life and memory.

Use Cases

- Study behaviour and migration of animals
- Conduct large scale coastal migration studies
- Understand spawning behaviour
- Study MPA effectiveness as it relates to population sustainability
- Monitor survival and mortality
- Assess climate change impacts
- Conduct fine-scale positioning studies
- Understand species distribution and habitat preferences
- Monitor predation events and study predator-prey interactions

Benefits

- **Programmable Watch Table**
  - Sets a list of tag ID's and monitors the number of detections received
  - Verifies sync tag and range test tag performance without retrieving receivers
- **Range Detection between VR2Tx and VR100**
  - Estimates distance between the VR2Tx and the VR100 and locates potentially lost units
- **Unit Discovery Mode**
  - Detects which receivers are within range of the VR100
- **Programmable Built-in Sync Tag**
  - Logs its own transmissions
  - Four programmable power levels (142 dB, 148 dB, 154 dB, 160 dB)

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Pair With

The VR2Tx-69 kHz receiver is used as a system with:

- V7, V8, V9, V13, V16 69 kHz Coded Tags
- V9AP, V13AP 69 kHz Accelerometer Tags
- V7D/DT, V9D/DT 69 kHz Predation Tags
- VR100 Deckbox and VHTx-69 kHz Transponding Hydrophone for communication with deployed units
- VUE Software for data offload and analysis

PRODUCT SPECIFICATIONS

Frequency
69 kHz

Weight
1190 g in air; 50 g in water

Dimensions
Length 308 mm; Diameter 73 mm

Power
One 3.6 V Lithium D cell battery

Battery Life
Approximately 14 months

Depth
500 m

Storage Capacity
32 MBytes non-volatile flash memory (~3-million detections)

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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