

VR2AR Receiver

Built-in tag and acoustic release enables communication from the surface with deployed receivers to obtain status and remotely release the unit

The VR2AR receiver comes with a built-in transmitter that enables transponding capabilities for remote communications from the surface with deployed receivers, and also enables researchers to remotely retrieve the unit using an integrated acoustic release - typically within one minute. The VR2AR-X is a longer-life version of the VR2AR that is capable of deployments up to 26 months.

The built in transmitter can be used as a sync tag for improved fine-scale positioning results and also provides 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 VR2AR 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 VR2AR and VR100**
 - » Estimates distance between the VR2AR 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)

Pair With

The VR2AR-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

Depth

500 m

Weight

VR2AR: 2350 g (air); 500 g (water)

VR2AR-X: 2746 g (air); 812 g (water)

Dimensions

VR2AR: Length 401 mm

VR2AR-X: Length 465 mm

Diameter: 81 mm

Mooring bracket width: 170 mm

Storage Capacity

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

Power

VR2AR: One 3.6 V Lithium D

VR2AR-X: One 3.6 V Lithium DD

Release: One 4 V Lithium AA

Battery Life

VR2AR: Approx. 14 months

VR2AR-X: Approx. 26 months

Release: >100 releases

Max Test Load

1000 lbs

Max Safe Working Load

250 lbs

Max Release Load

250 lbs

Ready to Get Started? [Contact us](#) today.

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