

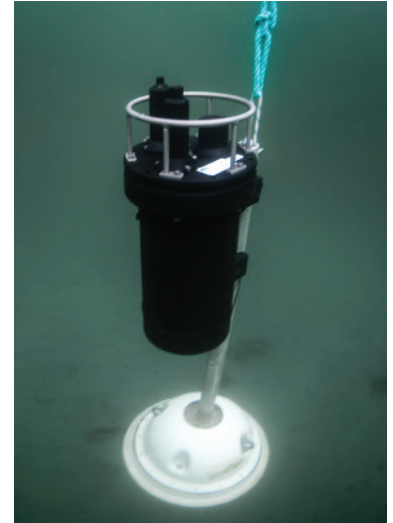
# VR4-UWM Receiver

Flexible, dual channel receiver with an underwater modem for remote communications is ideal for long term, deep water deployments

The VR4-UWM (Underwater Modem) receiver is a flexible and reliable means of recording fish telemetry data and then transmitting the stored data to a surface unit on demand without retrieving the units.

Capable of storing more than 800,000 detections, the VR4-UWM can also be deployed for more than 6 years making it ideal for site residency and migratory studies involving many animals over an extended period. It is especially suitable for off shore deployments in deeper water.

The VR4-UWM records the identification number and time stamp from acoustic transmitters as a tagged animal travels within the receiver's acoustic range. Tag depth, temperature, predation or acceleration data can also be collected.



## Use Cases

- » Study behaviour and migration of animals
- » Conduct large scale coastal migration studies
- » Perform site residency studies
- » Ideal for long term offshore deployments in deeper water
- » Understand spawning behaviour
- » Monitor survival and mortality
- » Assess climate change impacts
- » Understand species distribution and habitat preferences
- » Monitor predation events and study predator-prey interactions

## Benefits

- » Dual channel frequencies of 69 kHz and 180 kHz
- » Receiver channels can be independently switched on or off to save power and significantly extend battery life
- » Receiver functions can be switched off to save power during shipping and storage without removing the battery or opening the case
- » Fast acoustic "wake up" enables modem communication in less than 30 seconds
- » Battery monitoring measures charge drawn from the battery and keeps track of used/remaining capacity in the battery
- » Secondary water block for hydrophones that prevents flooding of the main case if a hydrophone is broken

## Pair With

The VR4-UWM receiver is used as a system with:

- » All Innovasea 69 kHz and 180 kHz Coded Tags
- » Benthos UDB-9000 Band C Deck Box and Transducer
- » VUE Software for data offload and analysis



## PRODUCT SPECIFICATIONS



### Frequency

69 and/or 180 kHz

### Dimensions

Height 50.3 cm; Diameter 22.2 cm

### Weight (with Battery)

Alkaline - 13.2 kg (air); 2.99 kg (water)

Lithium - 12.3 kg (air); 2.1 kg (water)

### Battery Life

> 6 years

### Depth

500 m

### Storage Capacity

> 800,000 detections

### Estimated Battery Life

#### 69 kHz Channel Only Enabled

Alkaline - 31 months

Lithium - 118 months

SAFT Battery Pack - 100 months

### Estimated Battery Life

#### 180 kHz Channel Only Enabled

Alkaline - 22 months

Lithium - 85 months

SAFT Battery Pack - 19 months

### Estimated Battery Life

#### 69 and 180 kHz Channels Enabled

Alkaline - 19 months

Lithium - 72 months

SAFT Battery Pack - 60 months

**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.