

# Vemco Mobile Transceiver (VMT)

Combination receiver / transmitter increases understanding about schooling cohesion and inter-species association

The Vemco Mobile Transceiver (VMT) is a hybrid between a 69 kHz coded transmitter and a 69 kHz monitoring receiver (similar to the VR2W-69 kHz). The VMT is externally attached to an animal and its receiving capabilities enable it to detect other animals that have been tagged with a 69 kHz coded transmitter. Coded transmitting capabilities also allow the VMT to be detected by other deployed 69 kHz receivers.

The VMT comes with several user programmable options such as the ability to vary receiver ON time (duty cycle), as well as some tag programming options.



## Use Cases

- » Determine predator/prey interaction and inter-species association (i.e. between elephant seals and salmon, and grey seals and cod)
- » Study schooling behaviour in animals such as sharks and tuna
- » Use as a mobile receiving station and extend detection ranges beyond traditional fixed coastal arrays by attaching the VMT to a long ranging animal or a glider module
- » Collect data on the length of time an animal spends near stationary objects such as FADs (fish aggregating devices) or buoys that have been tagged with a coded transmitter
- » Conduct studies in deep water environments (depth rated to 1000 m)

## VMT Optical Reader



VMT data is stored in the tag memory and can be retrieved using the VMT Optical Reader.

## Pair With

The VMT is used as a system with:

- » All 69 kHz Coded Tags
- » All 69 kHz Receivers
- » VMT Optical Reader for data retrieval and offload



## PRODUCT SPECIFICATIONS



### Frequency

69 kHz

### Depth

1000 m

### Weight

280 g in air

122 g in water

### Dimensions

Diameter: 35 mm

Length: 180 mm

### Transmit Power Output

156 dB re 1 $\mu$ Pa @ 1 m (L mode)

161 dB re 1 $\mu$ Pa @ 1 m (H mode)

### Battery Life

100% receiver duty cycle up to 10 months  
(battery life can be extended by changing  
the duty cycle; battery is factory replaceable)

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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