



VR2W Single Channel Receiver

With *Bluetooth*® Wireless Technology for Fast Data Offloads *Bluetooth*®



The VR2W was designed using the same proven and reliable technology you've come to know and trust in all VEMCO receiving equipment. Affordable, compact, easy to use, long-lasting and flexible, the VR2W is ideal for research projects ranging from small river monitoring to freshwater lake studies to multi-researcher, multi-tracking operations in large oceanic systems.

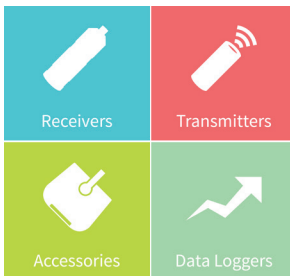
VR2W Key Features

- ▶ Rapid upload speed using Bluetooth® wireless technology - after retrieving your VR2Ws, offload data quickly (100,000 bytes in ~8 seconds or roughly 10,000 detections) and from up to 7 receivers simultaneously
- ▶ Substantial data storage capacity - 16 MBytes (~1.6-million detections)
- ▶ Field upgradable design allows the VR2W unit to be upgraded in the field with future coding scheme enhancements
- ▶ Safe, robust data storage capability - the VR2W always retains every detection in non-volatile memory so all data is saved even if the unit unexpectedly fails



Simple to Use. The VR2W records the identification number and time stamp from acoustic transmitters as a tagged animal travels within

receiver range. Depth, temperature and other sensor data can also be collected. After removing your VR2Ws from the water, data is downloaded quickly and easily in the field without opening the case by using your PC with Bluetooth® wireless technology. The VR2W system uses VUE software that is compatible with Windows XP SP2, VISTA or Windows 7 operating systems.



The VR2W operates with PC software

The VEMCO User Environment (VUE) PC Software for initialization, configuration and data upload from VEMCO receivers allows users to combine data from multiple receivers of varying types into a single integrated database. Studies using 69 kHz and 180 kHz tags can also be combined into one VUE database.

The VEMCO Bluetooth Communications Package includes everything you need to talk to your VR2W:

- ▶ VUE Software
- ▶ Software Manual
- ▶ Two Magnetic Activator Probes
- ▶ Adapter for USB to Bluetooth®

VUE requires Windows XP SP3, VISTA, Windows 7, 8 and 10 operating systems. See VEMCO's website for more details on VUE Software.

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The VR2W from VEMCO is a flexible, cost effective receiver for remote monitoring

The VR2W is capable of identifying all VEMCO coded transmitters and provides marine biologists with a flexible and reliable means of recording fish telemetry data.

Compact. The VR2W consists of a hydrophone, receiver, ID detector, data logging memory, and battery all housed in a submersible case. The VR2W receiver's plastic high pressure case is lightweight and has a depth rating of 500 meters. The VR2W is easily moored or hidden underwater by a diver and can also be set up with an acoustic release system for highly inaccessible locations.

Proven Technology. The device has been used successfully in several studies including:

- ▶ The Pacific Ocean Shelf Tracking Project (POST) monitors the movement of marine animals through an array of listening stations set along the west coast of North America.
- ▶ Network of 250 receivers in the Bay of Fundy tracking the migratory patterns of several salmon groups.
- ▶ Ocean cod tracking off Nova Scotia using an array of 70 receivers.
- ▶ Fish passage monitoring at Tees River Barrage, UK.
- ▶ Endangered Giant Sea Bass monitoring off California.
- ▶ Lingcod site residency monitoring off Alaska.
- ▶ Monitoring of sturgeon, sharks and grouper species.

Flexible. The VR2W is ideal for acoustic telemetry projects ranging from small river monitoring to multi-researcher, multi-species tracking operations in large coastal areas. The receiver is effective at detecting all VEMCO 69 kHz tags including miniature and medium sized tags enabling a researcher to track a wide variety of fish species with the same receiver array.

VR2W Specifications	
Dimensions	308 mm long x 73 mm diameter
Weight	1190 g in air, 50 g in water
Power supply	1 - 3.6 V Lithium D cell battery
Battery life	Approximately 15 months
Maximum depth	500 metres
Receive frequency	69 kHz standard
Storage	16 MBytes non-volatile flash memory (~1.6-million detections)
Attachment	Standard: Cable ties
Firmware	Field upgradeable receiver firmware
Software	Compatible with VEMCO User Environment (VUE) software
Transmitters	Logs and decodes ALL VEMCO coded transmitters
Code Maps	Support for all current and planned VEMCO Code Maps

Long Field Life. The low current draw VR2W will last up to 15 months on a Lithium D battery. Because non-volatile memory is used, the data remains intact even with the loss of battery power. Coded transmitters used with the VR2W enable researchers to conduct longer term studies. Many transmitters last several years giving the researcher the benefit of collecting many years of behavioural data from the same animal.

Global Compatibility. The global proliferation of VR2Ws along with the ability to decode all VEMCO tags (including Global tags introduced in 2010), allows researchers to collaborate by sharing receiver network arrays and infrastructure the world over.

For more information on the specific applications of VR2W technology or for technical details, contact VEMCO.

