

VR4-UWM Check Lists

To help you prepare your VR4-UWM for deployment, successfully deploy the receiver, and gather the data when you return to the deployment location.

Equipment	Important	
☐ Benthos Deck Box - fully charged prior to field day and/or make sure you have a "clean power source" to power the unit.	Initialize VR4-UWM before deploying. Use the magnet and the VUE software (Bluetooth communication) and start recording to remove the receiver from Suspend mode.	
☐ Benthos surface modem transducer	Do not open the case except to change battery. This receiver was sealed and pressure tested prior to shipping.	
☐ Dummy plug if receiver has an unused external connector (serial	Never deploy a VR4-UWM beyond 500 meters depth.	
port)	Do not deploy VR4-UWM receivers with the same modem	
☐ Laptop with latest VUE software and VR4-UWM user manual	address within 5 km of each other. Doing so could disable modem communications with the surface acoustic modem.	
installed	Do not bump the hydrophones or damage may occur and	
☐ DB-9 to USB adapter (if	the receiver will not detect transmitters. Do not allow the	
necessary) with software drivers installed	VR4-UWM to be dropped or struck against other objects.	
	Never cover the Status Light (LED)/Release Valve. The	
☐ Complete mooring inventory	release valve <u>must</u> be able to pop open if needed and must	
	not be blocked by tape or paint.	
	Do not mix different metals, especially in contact with each	
☐ GPS	other. This will promote galvanic corrosion and cause rapid failure of the hardware.	
☐ Bluetooth® USB adapter	Initializing the VR4-UWM will erase the receiver's	
☐ Serial cable	memory . Retrieve all detection logs before the VR4-UWM is initialized.	
Preparation – on land		
☐ Make sure latest VUE version is installed on PC, and latest manuals		
☐ Start a study using VUE software and <i>Bluetooth</i> communication (exit Suspend mode)		
Perform an in-air test (see manual) using <i>Bluetooth</i> communication		
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Perform an in-air test (see manual) using Benthos acoustic modem communication		

	Deployment		
	At desired location, turn off the boat's depth sounder.		
	Confirm that Status light gives 2 quick flashes every 5 seconds (initialized); red = 69kHz; yellow = 180kHz.		
	☐ Inspect case, especially pressure relief valves (make sure they're flush with surroundings)		
	☐ Deploy the VR4-UWM in a vertical position – <i>no more than 10° tilt angle</i> .		
	☐ Communicate with VR4-UWM while it is being deployed to monitor the tilt of the receiver. The hydrophone heads should always be pointing up.		
	Record GPS position of receiver; position can be tuned if depth is known (see manual).		
	Data Retrieval		
Return to GPS position or receiver (recorded during deployment)			
Set up surface modem (connect Deck Box to PC and deploy surface modem)			
Turn off boat's depth sounder during acoustic communication			
	Open VUE software option)	and select the desired Offload icon (usually the Offload New Data	
	If data to be used in data?" question that	a VPS study, then answer "Yes" to the "Offload high-resolution VPS appears	
	Monitor communicat power level, boat po	ion while data is being offloaded. Make adjustments as needed (to sition, etc)	
	☐ End communication when data offload is completed		

