

# VH165 and VH180 Omni-directional Hydrophones



The VH165 and VH180 are omni-directional hydrophones for use with the VR100 acoustic receiver for active tracking of VEMCO acoustic transmitters on passing fish or equipment.

The VH165 operates between 50 kHz to 85 kHz and the VH180 operates at the 180 kHz. The VH165 is encased in a black 16 mm diameter epoxy tube at a length of 100 mm and the VH180 is encased in a green 16 mm diameter epoxy tube at a length of 100 mm.



VH165



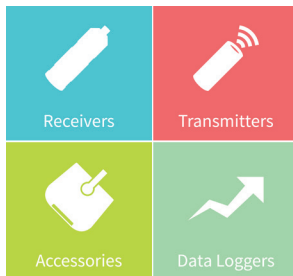
VH180

## Specifications

Frequency range	VH165: 50kHz – 85kHz VH180: 180kHz
Tag compatibility	VH165: V7, V8, V9, V13, V16 VH180: V4, V5, V6
Receiver compatibility	VR100
Operational temperature range	-5°C to +40°C (water must not freeze)
Case (dimensions and material)	VH165: 16 mm diameter x 100 mm black epoxy tube VH180: 16 mm diameter x 100 mm green epoxy tube
Weight in air	550 g
Cable type and available lengths	Shielded twisted pair, polyurethane jacket; Lengths (m): 5, 10 (standard), 30
Uses	Omni-directional hydrophone “hears” pings from any direction. Best for determining if a tag is in the area.
Maximum tow speed	Not recommended
Preamplifier gain	50 dB nominal

## Tips

1. Attach hydrophone to a weighted rope to counteract buoyancy and put hydrophone to depth. Do not put strain on hydrophone cable! Amount of weight needed depends on flow rate in area.
2. Turn off boat motor and depth sounder to reduce acoustic interference.



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