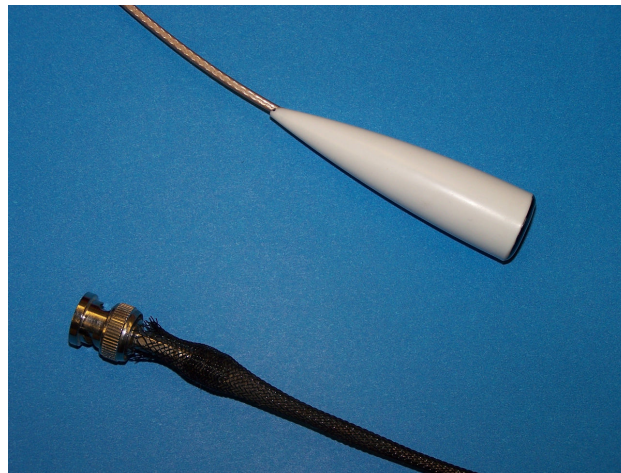


TH-2

**Towable
Omni-directional
Hydrophone
Operation Manual**



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TH-2 OMNI-DIRECTIONAL, TOWABLE HYDROPHONE

This unit provides the greatest mobility and ease of use in locating tags in lakes, rivers, and oceans. The simple hydrodynamic design of TH-2 allows for active tracking over large areas, allowing tracking from a moving boat at speeds nearing 6 knots.

TH-2 SPECIFICATIONS:

SENSITIVITY: -100 dBV ref 1 uBar.

OUTPUT: BNC connector on 50 foot coaxial cable (other lengths available).

CABLE: Proprietary polyurethane jacketed RG58 style (4mm diameter) standard, RG316 optional.

TRANSDUCER: single element, 0.5 inch PZT tube, passive (no amplifier), 8000pf nominal capacitance. May be used as either generator or receiver.

TH-2 OPERATION:

The TH-2 is most commonly used by towing the transducer behind a moving boat, either under power or drifting with the current in moving water such as river. When extended to its maximum length, and when used with a narrow band receiver (eg. The USR-08), the TH-2 provides excellent immunity from engine and prop noise while at trolling speeds of up to 6 knots. Care should be taken to secure the TH-2 the cable to the boat in the event of a snag that could topple the attached receiver: allowing for slack secured with simple tie wraps provide simple but effective protection.

If desired, the TH-2 may be weighted by using small “sinker” weights to ensure the transducer is located below the surface thermocline (usually 2m below the surface). Exotic diving lures (eg. “dipsy diver”) have been used successfully with the TH-2, allowing the transducer to reside at depth while in motion, returning near the surface when slowing, thus reducing the possibility of snagging while trolling. When attaching external devices to the TH-2, it is recommended that material such as electrical tape be used to protect the cable from inadvertent damage.

The TH-2 and DH-4 directional hydrophone may be used together with a dual-input receiver such as the USR-08DH: in this case, the TH-2 is used when covering a large search area, stopping only when a transmitter is detected, then using the directional feature of the DH-4 to precisely locate the transmitter.

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