

# **DH-5**

## **Small Directional Hydrophone**



# **SONOTRONICS**

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## DH-5 SMALL DIRECTIONAL HYDROPHONE

The DH-5 is a directional hydrophone that offers advantages of noise reduction and passive signal gain, while being small enough to allow low speed trolling and use in shallow streams and estuaries.

SENSITIVITY: -194 dBV ref uPascal

BEAM WIDTH: approximately +/- 10 degrees

SHAFT LENGTH: User supplies mounting shaft. (body fits 2" PVC coupler)

OUTPUT: BNC connector on 10 foot coaxial cable (other lengths available).

WEIGHT: 500gr

LENGTH: 97mm

APERATURE: 5.5" diameter (13.5cm)

CABLE: Replaceable 10' RG-58 C/U

## DH-5 OPERATION:

The DH-5 is provided in a clear PVC body that is compatible with 2" PVC accessories. Pictured on the right is an example of a DH-5 mounted in a 2" PVC reducing T that allows for a staff made from 1 1/2" PVC. Such a mounting makes the DH-5 compatible with similar staffs used with larger DH-4 directional hydrophones. Other accessories such as 45 degree couplers make it possible to mount a DH-5 to the side of boat allowing for low speed movement parallel to the shoreline while the DH-5 remains pointed 90 degrees from direction of travel. This configuration aids in the location of fish hiding in rock formations near shore.

Alternatively, the DH-5 may be used while walking in shallow water - the small size allows the hydrophone to remain submerged while moving along a stream area searching for hidden animals.

Key to using the DH-5 is its narrow beam width: this provides an accurate determination of the bearing to targeted pinger. The hydrophone can be slowly rotated on the pole so that the entire 360° field is covered. As the user gets closer to the pinger, the signal in the headphones will increase, and may become difficult to determine a precise direction: reducing the gain of the receiver will regain directionality. Adding closed cell foam to the exterior of the PVC bodies will further aid in locating tagged animals in noisy environments.

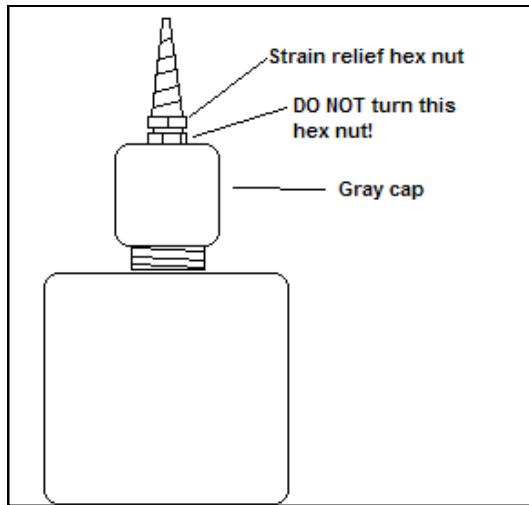


## Replacing hydrophone cables:

The DH-5 shares the same replaceable cables as the DH-4. It is important to follow the correct procedure when replacing a hydrophone cable. The order of the steps matters to ensure a tight seal and avoid damage.

1. Loosen the strain relief. The strain relief is the spring-like portion above the gray cap. There is a small hex nut attached to the spring-like portion which is used to loosen the strain relief. Do not turn the hex nut closest to the gray cap.
2. You may now unscrew the gray cap, which should be removable by hand.
3. Unscrew the hydrophone by using a 2" open end wrench or large adjustable wrench, then detach the BNC connector. The cable assembly is now free to be removed from the end of the DH-5.
4. When reattaching the cable, follow these steps in reverse order. Make sure to use Teflon tape on the threads of the gray cap to ensure a watertight seal. Make sure that both the gray cap and the strain relief are tight (hand tight).

DO NOT try to unscrew the gray cap while the strain relief is still tight. This will damage your hydrophone cable.



## CARE OF THE DH-5:

Care should be taken when coiling the hydrophone cable to loop the cable gently into a loop approximately 1 1/2' in diameter. The cable will have a direction that it will tend towards when looping, and this direction should be followed in order to avoid unnecessary stress on the cable. The cable that comes with the hydrophone is rugged military grade coaxial cable, however the user should be aware that any nick or puncture in the cable will most likely cause corrosion to begin, especially in saline environments. The detachable hydrophone cable connection allows the cable to be detached and replaced. The cable should be replaced immediately if any puncture is suspected before corrosion travels through the cable and enters the hydrophone.



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