

The Benthos DHS-100 Diver-Held Sonar is a portable, self-contained system designed for locating submerged objects and underwater objects fitted with locator pingers by providing divers with bearing and range information to targets and sound sources.

Using continuous transmission frequency modulation (CTFM), the system has an active mode for locating objects up to 20, 60, and 120 yard ranges. A continuous signal of varying frequencies is transmitted and range information is determined by comparing the transmitted frequency to the echo frequency. When a target is located, an audible tone is generated in the headset. A low tone indicates a close target and a high tone indicates a more distant target. The tone becomes continually lower as the diver moves toward it and until contact is made. Experienced diver operators become adept at determining range and target characteristics from the echo signal. When the DHS-100 is set in the passive mode, it provides bearing information to a pinger or other sound source.

The system comes complete with compass, charger, skull cap headset, flotation collar, rechargeable batteries, spare parts kit, and carrying case.

- Small and rugged
- Ideal for finding submerged objects
- Can be used as a training unit for AN/PQS-2A sonar operators



SPECIFICATIONS

Range (Active Mode):	20, 60, or 120 yards.
Range (Passive Mode):	Up to 1 mile.
Operating Principle:	CTFM (continuous transmission frequency modulated).
Beam Width:	Active Mode: 15° at -3 dB points. Passive Mode: 30° at -3 dB points.
Operating Frequency:	Active Mode: 115-145 kHz (30 kHz band). Passive Mode: 25-45 kHz.
Audio Signal:	Audio tone, 250-2500 Hz.
Operating Depth:	600 ft. (183M).
Power Source:	10.8V rechargeable NiCad battery
Battery Life:	4 Hrs. in active mode.
Housing Material:	PVC.
Weight In Air:	8 lbs. (3.6 kg).
Weight In Water:	12 oz. (0.23 kg).
Dimensions:	Length 12.5 in. (32 cm). Diameter 4.5 in. (11.4 cm)
Operating Temperature:	28°F (-2°C) to 86°F (30°C).

