

DLS-2A Non-Magnetic Diver Locator Sonar



The DLS-2A (equivalent to the PQS-2A) Non-Magnetic Diver Locator Sonar, manufactured by *Ultra Ocean Systems*, is a portable self-contained sonar designed for use by Military Explosive Ordnance Disposal divers in locating underwater mines and other submerged objects. The system provides bearing and range information to the target and can also be used to locate pingers or other sound sources.

The DLS-2A uses Continuous Transmission Frequency Modulated (CTFM) sonar technology to locate objects within 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. As a target is located with the DLS-2A, an audible tone is generated in the underwater headset. A low tone indicates a close target whereas a high tone indicates a distant target. Moving towards the target will cause the tone to become continually lower until contact is made. Experience with the system allows an operator to determine range and target characteristics from the echo signal. When the passive mode is selected, the DLS-2A provides bearing information to a pinger or other sound source operating between 24 to 45Khz.

The complete system is backed by a one-year warranty and comes complete with compass, rechargeable batteries, charger, skull cap, headset, flotation collar, o-ring lubricant, and a carrying case.



SPECIFICATIONS

Range (Active Mode)	20, 60, or 120 Yards
Range (Passive Mode)	>2000 Yards (1800m)
Operating Principle	CTFM (Continuous Transmission Freq. Modulated)
Bearing Active/Passive Mode:	Resolution Better than 2°
Operating Frequency	
Active Mode	115-145 kHz (30 kHz Band)
Passive Mode	24-45 kHz
Audio Signal	Audio Tone, 250-2500hz
Non-Magnetic	Meets Mil-M-19595
Operating Depth	300 ft. (91 M)
Power Source	Rechargeable Batteries
Battery Life	10 Hrs. in Active Mode
Weight	
In Air	7.5 lbs. (3.4 kg)
In Water	10 oz. (0.3 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)
<i>Specifications are subject to change without notice</i>	

- **EQUIVALENT TO THE PQS-2A**
- **MEETS MIL-M-19595**
- **IDEAL FOR EOD USE**
- **REQUIRES STATE DEPARTMENT LICENSE**

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