

AN/SSQ-53D DIFAR Sonobuoy

Directional Frequency Analysis Recorder



Key features

- Highly accurate directional sensitivity
- High power 97-channel RF transmitter
- Li/FeS₂ power source
- 21 lbs / 9.5 kg
- Field programmable
- Air launchable from fixed or rotary-wing aircraft

Overview

The AN/SSQ-53D DIFAR US Navy A-size sonobuoy is a passive directional sonobuoy. This is the recommended DIFAR sonobuoy for international customers with older MPA platforms. The AN/SSQ-53D can operate in the DIFAR acoustic sensor mode only.

The DIFAR sensor provides acoustic information at one of three selectable operational depths. The DIFAR sensor can operate between 5 and 2400 Hz.

The AN/SSQ-53D DIFAR is air launchable from fixed or rotary wing aircraft, or it can be deployed from the deck of a surface vessel. Descent of the sonobuoy is stabilized and slowed by a parachute.

Technical Specification

Physical Description

Weight	21 lbs / 9.5 kg
Sonobuoy Launch Container	LAU-126/A

Performance Data

RF Command Receiver	UHF - single channel
RF Transmitter Power Output	1 W minimum
RF Transmitter Operating Frequency	97 channel selectable (136.000 to 173.500 MHz)
RF Transmitter Stability	+/- 25 kHz
Frequency Response	Selectable DIFAR: (5 - 2400 Hz)
Operating Life	0.5, 1.0, 2.0, 4.0, or 8.0 hours
Operating Depth	Selectable D1: 90 ft / 27 meters D2: 400 ft / 122 meters D3: 1000 ft / 305 meters
EFS Selections	RF Channel, Life, Depth Sensor
Launch Altitude	40 to 30,000 ft / 12 to 9144 meters
Launch Speed	0 to 370 KIAS
Shelf Life	5 years in sealed container
NSN	5845-01-289-9058
CAGE Code	1JGV5



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