

AN/SSQ-53G DIFAR

SONOBUOY

RELIABLE, CONSISTENT
SEARCH AND
TRACKING SENSOR



01

Passive Directional

The AN/SSQ-53G DIFAR is a NATO A-size sonobuoy which combines a passive directional and calibrated wide-band omni capability into a single multi-functional sonobuoy. This DIFAR sonobuoy has a GPS capability that requires Command function Select (CFS) for GPS operation. GPS is initially off at splash.

The AN/SSQ-53G uses Electronic Function Select (EFS) for pre-launch setup and Command Function Select (CFS) for in-water adjustments, allowing control of sensor mode, buoy life, depth, AGC level, and RF channel. It supports four acoustic modes.

The buoy amplifies underwater acoustics and provides directional data to establish bearing to the energy source. GPS location reporting is supported, transmitting formatted messages.

02

Key Features

- 27-305 meters (90 to 1000 ft)
- 97-channel RF Transmitter
- Acoustic Sensors (CSO, CO, XCO, DIFAR)

Why Twenty-Six Defense Maritime

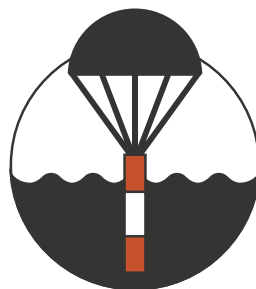
Twenty-Six Defense Maritime, a Twenty-Six Defense company, is a world leader in the design, development, testing and production of complex electromechanical systems and sensors, including Sparton sonobuoys. The company delivers a variety of sensing and advanced analytics capabilities that enable our nation to dominate the maritime domain.

03

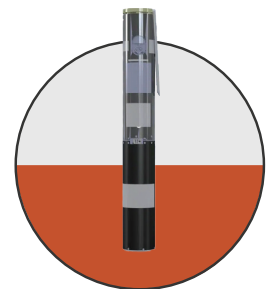
How it Works



The AN/SSQ-53G DIFAR is air launchable from fixed, rotary-wing aircraft or surface vessel.



Descent of the sonobuoy is stabilized and slowed by a parachute.



Begins transmitting upon water entry.

BUILT FOR THE MISSION

AN/SSQ-53G DIFAR
NSN 5845-01-630-5313



04

Physical Characteristics

Weight	8.98 kg (19.8 lbs)
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
Sensors/Audio Frequencies	CSO CO DIFAR XCO
Operating Depth	27-305 meters (90-1000 ft)
EFS Selection	RF, Life, Depth, Sensor, and AGC
CFS Selection	RF, Life, Sensor, and AGC
Launch Altitude	12 to 9144 meters (40 to 30000 ft)
Launch Speed	0 to 370 KIAS
Shelf Life	5 years in sealed container