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Passive Receiver

The AN/SSQ-101B ADAR (Air Deployable Active Receiver) is a NATO A-size sonobuoy manufactured for the U.S. Navy and provides a Commandable passive search capability.

When deployed, the ADAR array uses a horizontally oriented, pentagon-shaped pattern of forty identical hydrophones positioned along its circumference and radial supports to detect and beam-form underwater sound waves. Each hydrophone's analog output is digitized, serialized, beam-formed, and transmitted to the surface transceiver, which broadcasts the data over a minimum five-watt FSK-modulated radio link. All beam-forming occurs within the sonobuoy, with bearing data enhanced by a high-accuracy digital compass.

The sonobuoy includes Electronic Function Select (EFS) for pre-launch configuration and a UHF Command Function Select (CFS) downlink that allows operators to adjust its operating mode after deployment. These controls enable selection of processing mode and RF channel.

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Key Features

- EFS Selectable
- RF Channel, Depth, Processing Mode
- and Acoustic Band
- CFS and CMF Downlink
- Commandable
- 5 Watt-47 Channel
- P1 Mode and 90+ channel P2

Why Twenty-Six Defense Maritime

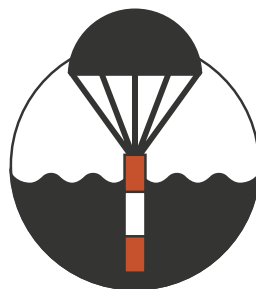
Twenty-Six Defense Maritime, a Twenty-Six Defense company, is a world leader in the design, development, testing and production of complex electromechanical systems and sensors, including Sparton sonobuoys. The company delivers a variety of sensing and advanced analytics capabilities that enable our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

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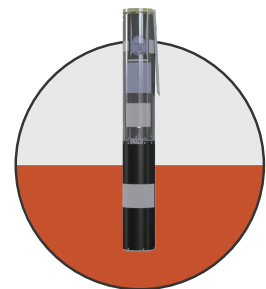
How it Works



The AN/SSQ-101B ADAR is air launchable from fixed or 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-101B

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Physical Characteristics

Weight	14.1 kg (31 lbs)
Sonobuoy Launch Container	LAU126/A

Performance Data

RF Command Receiver	UHF – Single Channel
RF Transmitter Power Output	5 W minimum
Operating Life	8 hours
Operating Depth	19.8-152.4 meters (65-500 ft)
Launch Altitude	12 to 9144 meters (40 to 30000 ft)
Launch Speed	0 to 370 KIAS
Transducer Array	Omni directional
Shelf Life	5 years in sealed container