

AN/SSQ-125 Sonobuoy

Active Source

The AN/SSQ-125 is a NATO A-size sonobuoy manufactured by STS for use as a source in a multi-static sonobuoy field.

The AN/SSQ-125 is capable of generating a variety of waveforms upon command and is designed to work with the AN/SSQ-53F/G and AN/SSQ-101 (ADAR) sonobuoys.

Prior to deployment, the AN/SSQ-125's RF channel can be programmed to any of the standard sonobuoy operating channels. At any time after deployment, the AN/SSQ-125 can be commanded to change its operating parameters or depth (deeper only), generate a ping, or scuttle.

The AN/SSQ-125 is air launchable from fixed or rotary-wing aircraft. Descent of the sonobuoy is stabilized and slowed by a parachute. It is also easily deployable from the deck of a surface vessel.

- All Digital Design
- High-power 96-channel RF Transmitter
- High-power LiSO₂ power source
- CFS Commandable
 - *RF channel, Depth, Scuttle, Waveform type, Output power*
- Waveform types include
 - *CW, Shaded Hanning CW, Hyperbolic-FM (HFM), HFM train, Sinusoidal FM (SFM), Linear FM up/down, Costas SONAR*



SPECIFICATIONS

PHYSICAL DESCRIPTION

Weight.....16.3 kg (36 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 Frequency96 Channel selectable
 (136.000 to 173.500 MHz)
 RF Transmitter Stability.....+-25 kHz
 Sonic Frequency..... Baseline 950 Hz, other frequencies available (1 kHz to 5 kHz)
 Operating Life..... 8 hours
 Duty Cycle..... 10% maximum
 Ping-seconds 140
 Operating Depth..... Selectable
 d1: 19.8 meters (65 ft)
 d2: 53.3 meters (175 ft)
 d3: 91.4 meters (300 ft)
 d4: 152.4 meters (500 ft)
 Launch Altitude.....12 to 9144 meters (40 to 30,000ft)
 Launch Speed..... 0 to 370 KIAS
 Transducer Array..... Piezoelectric Ceramic, Omni directional
 Shelf Life 5 years in sealed container