

# 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 LiSO<sub>2</sub> 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 Frequency .....96 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