

# Multistatic Low Frequency Active Source & Moni Receive

AN/SSQ-565



## Key features

- A-size LFA source sonobuoy with GPS
- ITAR-free Canadian design
- Designed for multistatic active missions
- Supports monostatic sonar operations
- Over 400Hz acoustic transmit bandwidth
- Continuous Active Sonar (CAS) mode
- Both US and UK GPS reporting modes
- CAD or gravity launch
- 4 selectable depths

## Overview

The SSQ-565 sonobuoy operates primarily as a high-power, low-frequency acoustic source for multistatic active sonar operations. Its transmit band is compatible with any standard sonobuoy, but is ideally matched with Ultra Maritime's SSQ-573.

The SSQ-565 also provides a standalone omnidirectional passive receive capability with automatic gain control (AGC) for monostatic active sonar operations.

The SSQ-565 incorporates a Command Signal Generator (CSG)/Command Function Select (CFS)-compatible UHF downlink to control its operation after launch. It works with any aircraft capable of commanding any variant of the SSQ-62E DICASS sonobuoy.

# Technical Specification

SSQ-565 offers commandable ping types over a 400Hz bandwidth and the ability to operate at 4 different depths. The power source is a lithium sulfur dioxide battery pack with safety features to ensure voltage is not applied unless the buoy has been deployed into seawater. An on-board GPS receiver provides precise buoy position on the RF uplink. The SSQ-565 is air and sea-launchable.

## Key benefits

- ITAR-free Canadian design
- 5 years shelf life in sealed container
- 90 days unpacked storage life
- GPS available

## Command Function Select (CSF):

- GPS format: US and UK
- RF on/off and RF channel
- Depth (go deeper within depth family)
- Scuttle
- Full control of sonar channel & ping type
- FM: 1-4s duration, up/down 100-400Hz bandwidth
- 7 CW ping frequencies: shaded 1-32s duration
- Continuous Active Sonar mode (CW & FM)
- Capable of adding customer-selected complex waveforms (factory-level change)

## Command Signal Generator (CSG)

- Depth (go deeper within depth family)
- Scuttle
- Ping control similar to DICASS SSQ-62E
- FM: 1s duration, up/down 100-400 Hz bandwidth
- CW ping frequencies: 1, 2, 4s duration

## Sonobuoy Characteristics

Description	Multistatic Low Frequency Active Source & Omni Receive	
Mechanical Characteristics	'A' size Length:	914 mm (36.00 in)
	Diameter:	124 mm (4.875 in)
	Mass:	14.4 kg (31.8 lbs)
	C of G:	35.6 cm (15.25 in) from bottom end
	Ballistic Coefficient:	78.42 kg/m <sup>2</sup>
Power Source	Lithium Battery	
Deployment	Maximum Platform Speed:	370 kts
	Maximum Platform Altitude:	9,144 m (30,000 ft)
Temperature Range	Storage Temperature:	-40 °C to +70 °C
	Launch Air Temperature:	-20 °C to +55 °C
	Seawater Temperature:	-2°C to +35 °C
Operation Depth	4 depths across 2 depth families selected by EFS d1 (30, 60, 120 m), d2 (60, 120, 250 m) Go deeper commandable using CFS or CSG	
Operating Life	8 hours fixed Scuttles after 8 hours or after scuttle command	
RF Channel	EFS Programmable, 97 Channels (136 MHz to 173.5 MHz, 375 kHz spacing)	
VHF Radiated Power	1 Watt Nominal	
Telemetry	FM (conventional DIFAR format)	
Acoustic Omni Receiver	1600 to 2000 Hz	
Transmit Vertical	10 to 13° (3dB measured beamwidth)	
Ping Capacity	up to 200 ping seconds <7% duty cycle	
Ping Types	CAS, CW, FM Up, FM Down	



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