

# Wideband Omni-Directional Passive Surveillance Sonobuoy (LOFAR)

SSQ-906G&H



## Key features

- High performance omni-directional buoy for littoral and deep water operation
- Passive surveillance
- 'G' size
- Wideband acoustic frequency range
- Acoustic monitoring of marine mammals and maritime noise pollution
- Autonomous Function Select
- Coastal surveillance option

## Overview

The Ultra Maritime SSQ-906G variant Low Frequency Analysis and Recording (LOFAR) sonobuoy combines a high-performance, wide frequency band omni-directional sensor with the proven in-buoy digital electronics of the Ultra Maritime SSQ-955 HIDAR sonobuoy. This combination takes full advantage of digital signal processing to offer a buoy that outputs distortion-free acoustic data across a high dynamic range and with superb linearity across an extended acoustic spectrum.

The SSQ-906H variant is designed primarily for shallow water operations close to the shoreline, or in the fresh water run-off environment of river estuaries. This variant will cope with all salinity conditions from fresh water to 3.6% salinity by weight. Optional GPS telemetry can be included.

The SSQ-906G&H variants offer considerable benefits to maritime patrol aircraft, especially those with limited space and weight available. Its small, lightweight size is ideal for helicopter operations.

# Technical Specification

## Sonobuoy Characteristics

Description	Wide frequency band omni-directional passive sonobuoy		
Dimensions	'G' size Length:	419.1 mm (16.5 in)	
	Diameter:	123.825 mm (4.875 in)	
	Weight:	5.6 kg (12.3 lbs)	
Deployment	Platform speed:	50 kts to 375 kts	
	Platform altitude:	46 m to 9200 m (150 ft to 30,000 ft)	
Operating Depth	AFS programmable settings:		
	SSQ 906G	30 m	140 m 300 m
	SSQ 906H	15 m	30 m 60 m
	Time to full stabilisation	100 s	180 s 240 s
Operating Life	AFS programmable 1 to 7 hours in 1 hour increments (Automatic Scuttle)		
RF Channel	AFS Programmable Channels 1 to 99 (136 MHz to 173.5 MHz, 375 kHz spacing)		
Telemetry Mode	Frequency Modulation Analogue		
VHF Radiated RF Power	1 Watt nominal		
Acoustic Frequency Range	10 Hz to 20 kHz		
FM Deviation Acoustic Sensitivity	116 dB $\pm$ 2 dB re 1 $\mu$ Pa produces 19 kHz peak deviation at 100 Hz		
Variants	SSQ 906G: High performance, omni-directional SSQ 906H: Shallow water, low salinity variant		
Temperature Range	Seawater operating:	-2°C to + 35°C	
	Un-packaged non-operating:	-20°C to + 55°C	
	Packaged:	-50°C to + 70°C	
Seawater Salinity (Optional SSQ 906H)	1.5% to 3.6% by weight		
	0.0% to 3.6% by weight		
Storage Life	Packaged:	7 Years	
	Un-packaged:	90 Days	



Ultra Maritime  
sonobuoys@umaritime.com  
umaritime.com

NATO STOCK NUMBER  
SSQ-906G: 5845-99-616-6943  
SSQ-906H: 5845-99-551-6127