

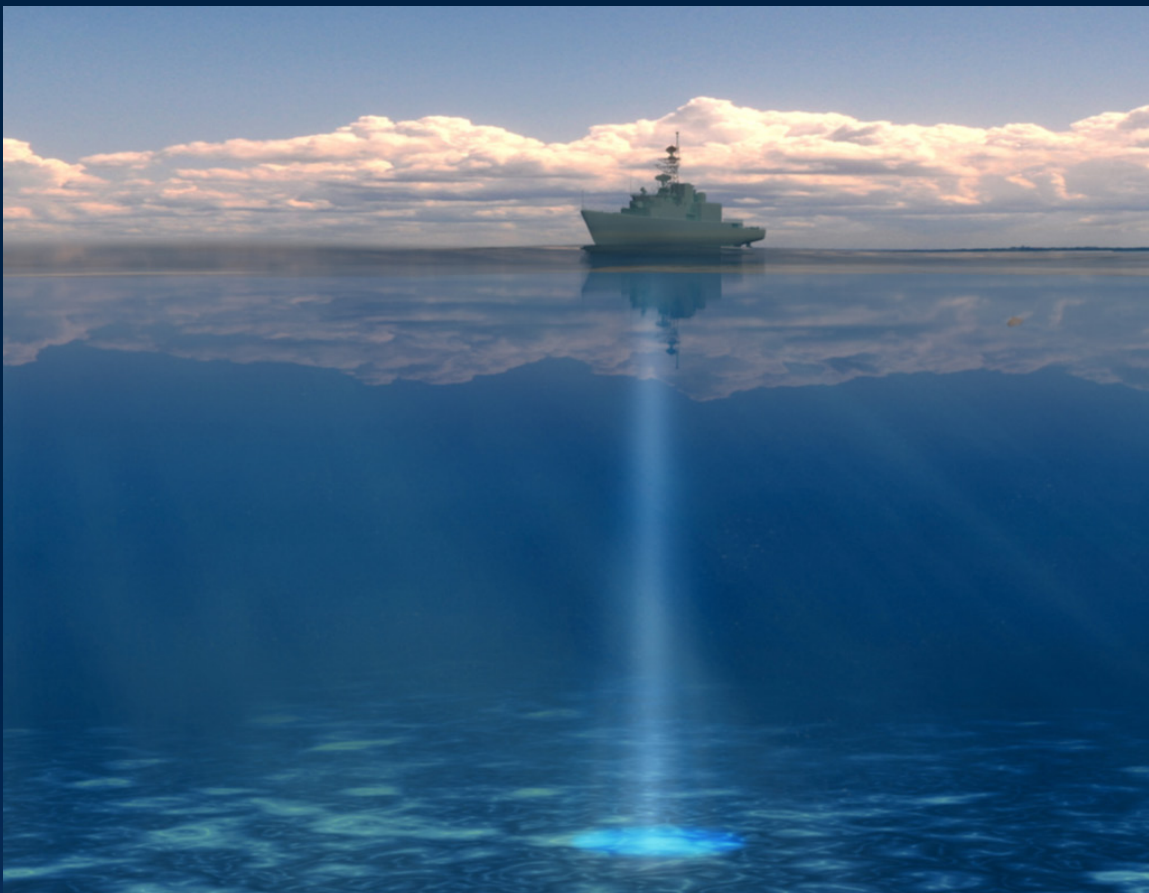
## OVERVIEW

The Nautel Naval Echo Sounder (NES-DF) is a compact, state-of-the-art acoustic system. Its compatibility with third party transducers makes it ideal for retro-fit on existing naval vessels.

The system's bottom detection capability is enhanced by digital signal processing.

A wide range of selectable operating frequencies – 12 / 30 / 50 / 200 kHz – are offered as standard.

Synchronous operation with multiple transducers on different frequencies offers the option to integrate, process, and display environmental data such as pressure, temperature, density, salinity, and sound velocity of the water.



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## General Specifications

Operating Frequency	500 Hz to 675 Hz
Operating Depth Range	0-1000, 2000, 3000, 4000, 8000, 12000 m
Range Scales	Configurable and selectable by operator
Accuracy	Max resolution 2 cm to 1 m, depending upon selected range scale
Input Power	12 V DC, 5 A DC - Pulse Length
Pulse Type	Ping or Chirp
Pulse Repetition Rate	Min. 12 PPM to 36 PPM
Controller Interface	Serial or USB
MTBF	> 20,000 hrs
MTRR	1 hr

## Qualifications

Shock	MIL-STD-901
Vibration	MIL-STD-167-1
EM Interference	MIL-STD-461E
Environmental	MIL-STD-810
Noise	MIL-STD-740