

HELICOPTER LONG-RANGE ACTIVE SONAR

Highest-performance dipping sonar in the world

The Helicopter Long-Range Active Sonar (HELTRAS) provides operators with a significantly more capable, interoperable and a versatile weapon system that reduces total operating costs by minimizing the time needed to execute an Anti-Submarine Warfare mission.

FEATURES

- > Highest-performance dipping sonar in the world — demonstrated against both diesel-electric and nuclear submarines, the HELTRAS outperforms in diverse geographic and acoustic environments, and in both active and passive operations.
- > Demonstrated performance advantage over medium-frequency (2 kHz and higher) dipping sonar systems — by operating at a nominal frequency of 1.38 kHz, the HELTRAS consistently achieves long-range detections and target tracking in both littoral and open ocean environments.
- > Lightweight system produces high source levels, narrow vertical transmit beams and high array gain, performing at least 14 dB higher than that of medium frequency dipping sonar systems.
- > Patented, compact, powerful acoustic transducers and expandable transmitting and receiving arrays produce a lightweight system that exploits the advantages associated with using truly low acoustic frequencies.
- > High-resolution Doppler processing — long-shaped CW pulses (up to 10 seconds) and wide-bandwidth FM pulses (up to 5 seconds) are available to detect near-zero Doppler low strength targets.
- > Interoperable with all key sonobuoys and modern low-frequency towed variable depth sonars.
- > Yields savings in operating costs — long-range detection and large area search rates reduce total operating hours.

> Highest-performance dipping sonar

