

# Kraken to Receive CAD400,000 Order from Major European Defence Contractor



Kraken Sonar Systems Inc. has invoiced a major European defence contractor for over CAD400,000. Proceeds are expected to be received during Q2 2016. Kraken recently provided an AquaPix Miniature Interferometric Synthetic Aperture Sonar (MINSAS) for integration and sea trials on the customer's autonomous underwater vehicle (AUV).

Karl Kenny, Kraken president and chief executive officer, said that navies around the world rely upon their suppliers to provide the best underwater systems and more defence contractors are depending upon Kraken to provide innovative underwater technology solutions.

## MINSAS

MINSAS is an advanced sonar designed for operational depths up to 6,000m. The system integrates the latest electronics, transducer arrays and signal processing software and is optimised for the demanding size, weight, power and cost constraints of autonomous underwater vehicles and unmanned surface vehicles.

MINSAS uses a subset of Kraken's award-winning AquaPix INSAS transducer array but has the addition of an innovative SAS gap filler transmitter that produces high-resolution data in the nadir region. A lower frequency transmit element, unique to MINSAS, provides a SAS resolution gap fill directly under the platform. The transmitter and receiver elements are integrated into single monolithic arrays mounted close to the electronics module. The system also uses two rows of identical receiver elements to deliver high precision 3D bathymetry data.

The MINSAS 180 system is an integral part of Kraken's recently announced KATFISH intelligent towfish system. KATFISH provides ultra high definition imagery and 3D bathymetry to enable real-time seabed mapping at extremely long ranges.