

# First Field Results for Kongsberg-HISAS

Kongsberg announces the first field results for the new Kongsbergâ€™HISAS Synthetic Aperture Sonar (SAS). SASs combine a number of acoustic pings to form an image with much higher resolution than conventional sonars, typically 10 times higher. The HISAS sonar is part of the HUGIN system solution for mine countermeasures, which has been ordered recently by the Norwegian Navy.

HISAS is a wideband SAS sonar with frequency range of 70-100kHz, capable of producing ultra high resolution acoustic images as well as co-registered bathymetry. The sonar is tightly integrated with the INS navigation and motion sensing platform of the HUGIN AUV, and makes use of modern signal processing such as DPCA (Displaced Phase Centre Analysis) to process the raw data into images. The sonar prototype has recently been tested with success at sea outside Horten, with signal processing done by FFI.

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