Apex // Spot
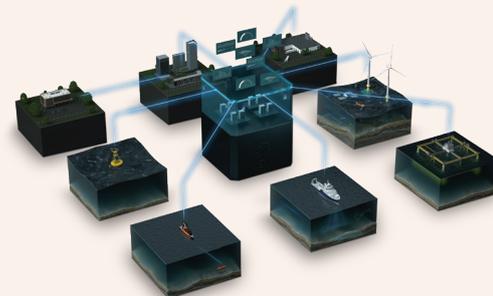
The next level of Synthetic Aperture Sonar (SAS) processing

With APEX // Spot, data from HISAS can be processed in new ways to ensure the best possible data quality in all operational scenarios. APEX // Spot allows the user to break traditional processing rules, focusing only on delivering sharp SAS images. Empowering the user to override defaults in the processing chain ensures that the full potential from any data set can be extracted.

APEX // Spot is a fully fledged 3D tool with access to full seafloor scene, navigation trajectory and sonar geometry. Any updates and changes made are instantly visualized in 3D space along with immediately recomputed SAS imagery.
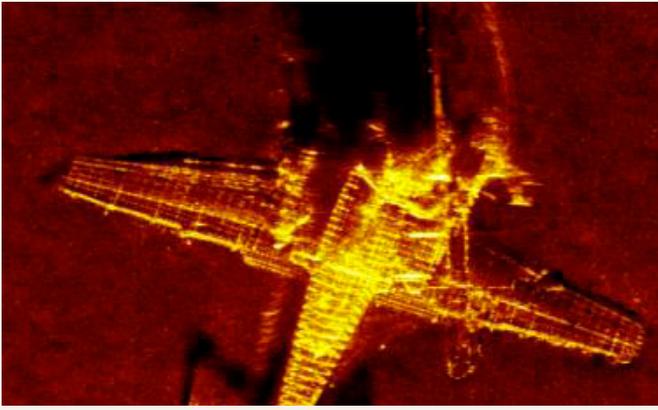
CME (Coherent Motion Estimation) navigation solutions can be generated within APEX // Spot. CMEis a sonar driven navigation solution focusing on giving the sharpest possible sonar data.

APEX // Spot truly represents the future of SAS processing and will be augmented with several powerful features. Full resolution SAS bathymetry, sonar calibration, image and bathymetry fusion –all features destined for APEX // Spot in the near future. Make sure to subscribe!

APEX // Spot is part of the Blue Insight portfolio.

FEATURES

- GPU accelerated processing of selected areas and targets
- Instant on-screen effect of any parameter change
- Time-domain SAS imaging
- CME – generate optimal trajectory
- Generate sharp SAS imagery in turns
- Export images to GeoTIFF

Dornier Aircraft sunken in Oslo fjord in 1946 at 200m depth. HISAS 1032, range 180 180-200m.
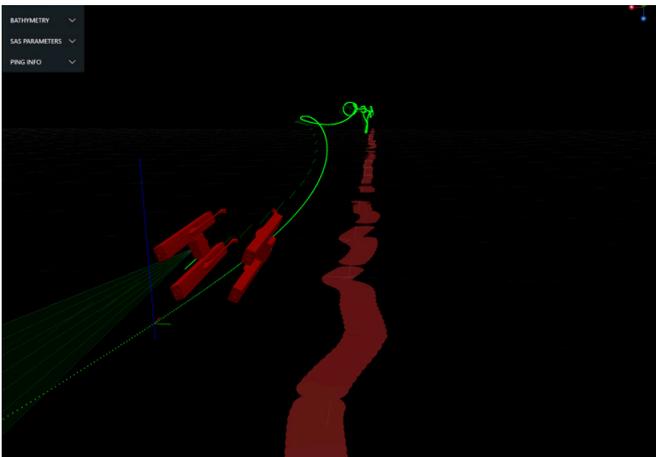
Minimal hardware requirements

- Microsoft Windows 10 or 11
- Intel i7 CPU or AMD Ryzen 7
- 32GB RAM
- NVIDIA GeForce RTX 3080 with 12GB memory, alternatively, NVIDIA RTX 4000 (Ada Generation)
- High-speed data access:
  - Local SSD or NVMe drive, alternatively
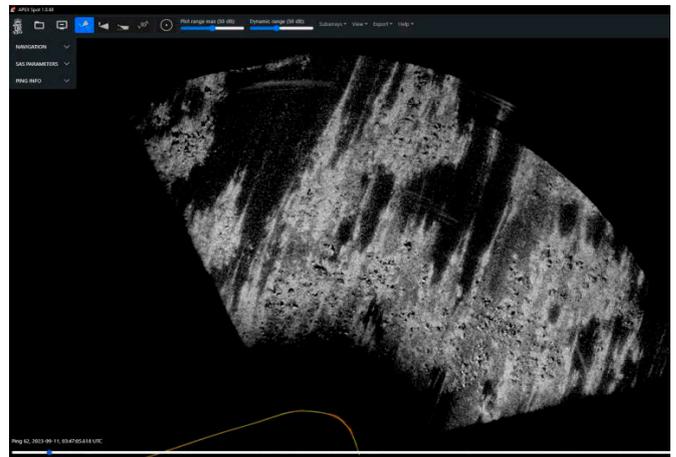 - 2.5GBit or 10GBit network connection to data storage

Licensing and pricing

Included with the purchase of a HISAS system is one (1) year of full access to APEX // Spot. The licenses granted allows you to process data from your vehicle on one (1) computer.

Pricing for continued access to APEX // Spot is based on yearly subscription and gives access to new releases and updates. Special licensing can be granted for customers with particular needs.

Visualisation of sonar transducers and vehicle trajectory. HISAS 1032 Dual Rx.

Underwater structures from a volcanic region of the pacific at 5400m depth. HISAS 1032, range 0-250m. Courtesy of Deep Sea Vision.

Specifications subject to change without any further notice.